

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320013

Luminaire Tested: **GAN-SA9C-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9C-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60087 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

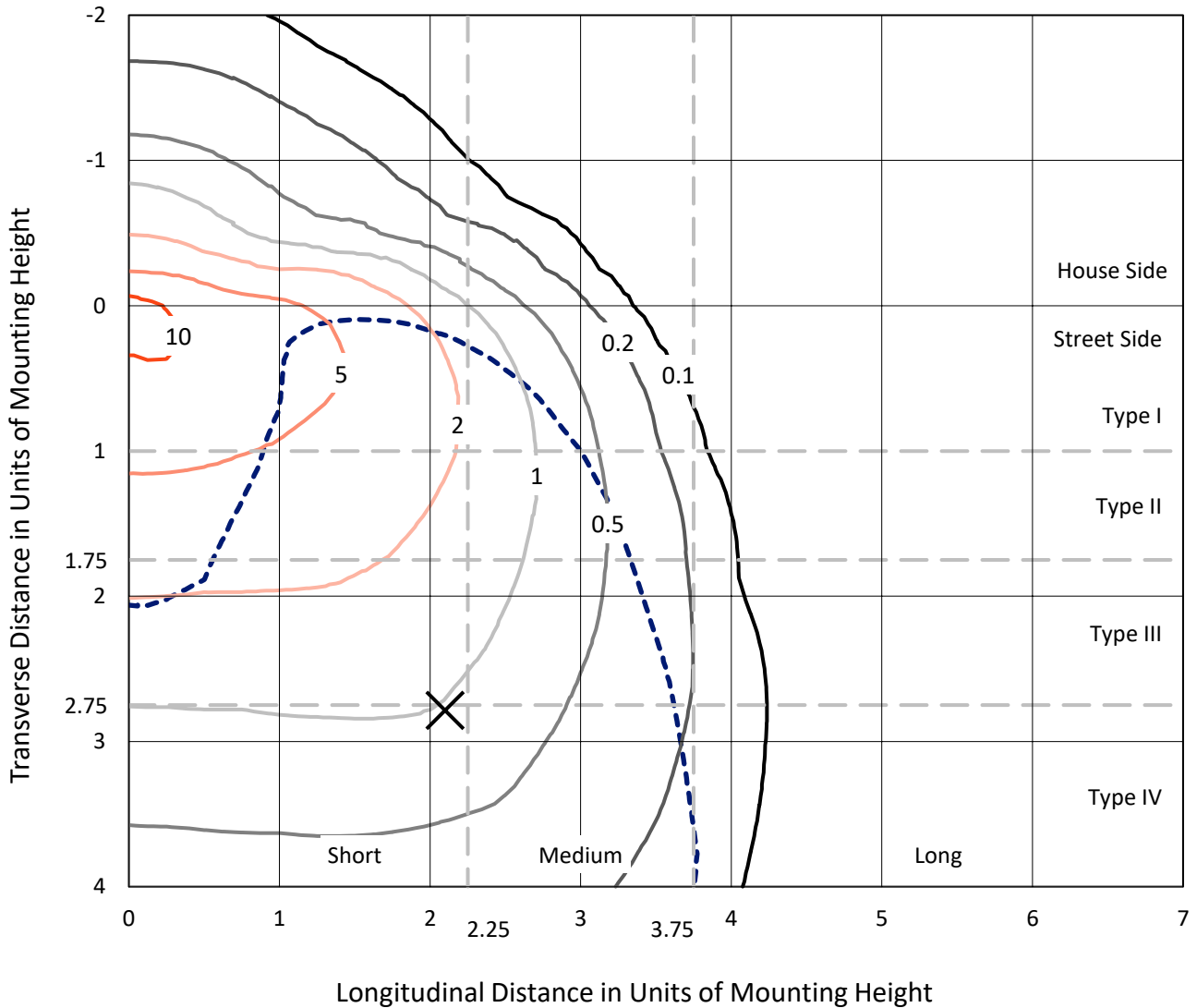
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

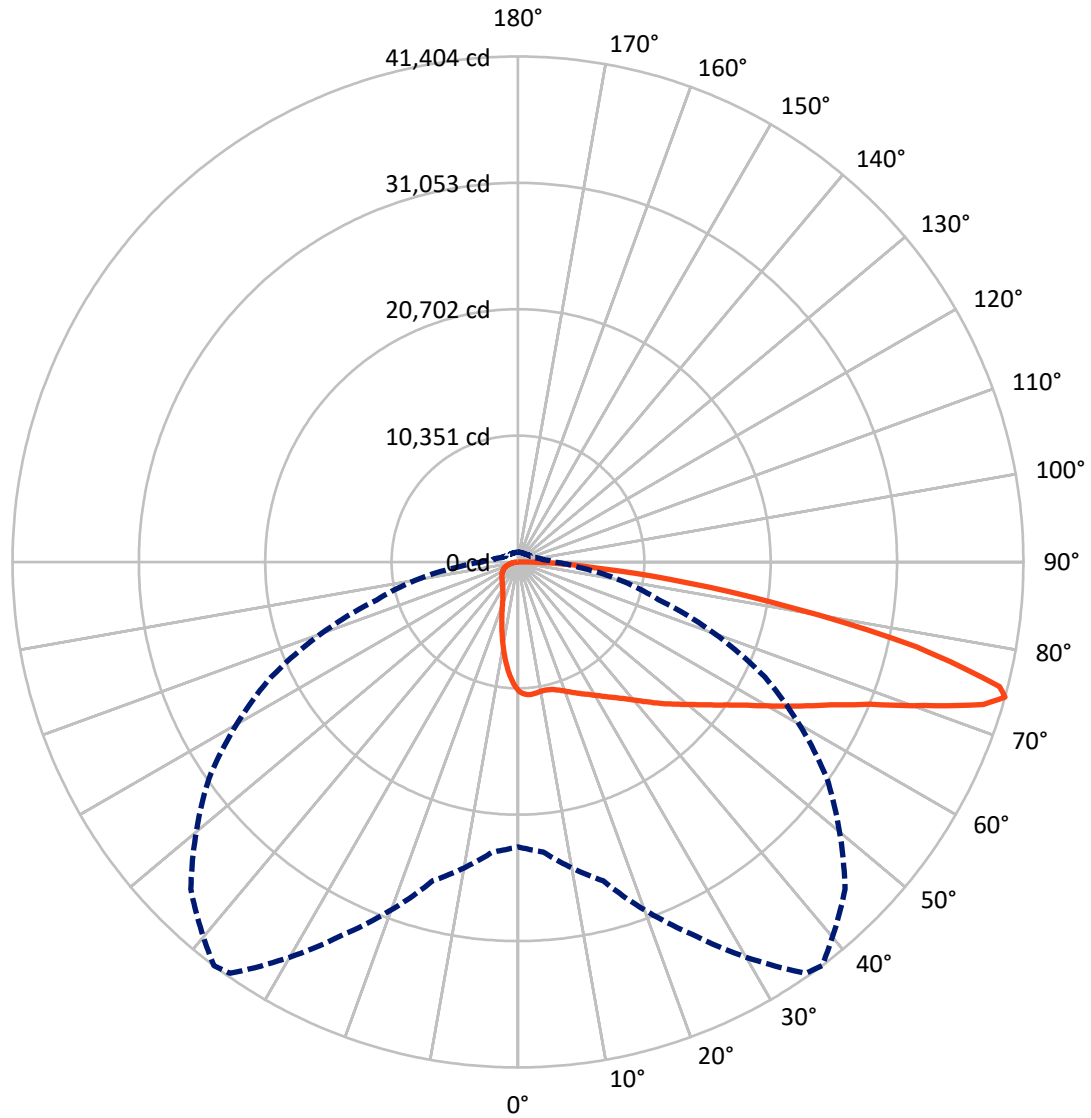
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - Horizontal Cone Through 74-Deg Vertical

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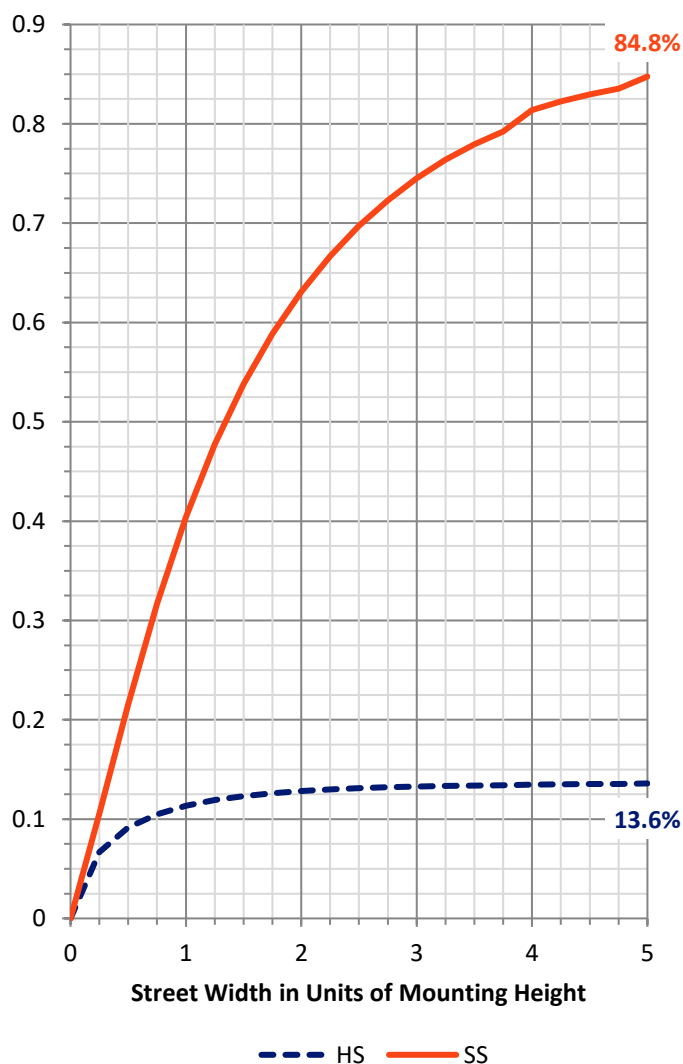
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8267.6	0.0	8267.6
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	51819.5	0.0	51819.5
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	60087.0	0.0	60087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	932.3	1.6
10°-20°	2389.8	4.0
20°-30°	3682.2	6.1
30°-40°	5354.4	8.9
40°-50°	7880.8	13.1
50°-60°	11067.1	18.4
60°-70°	14007.6	23.3
70°-80°	12334.2	20.5
80°-90°	2438.7	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	60087.0	100.0
0°-180°	60087.0	100.0

**Coefficient of Utilization**



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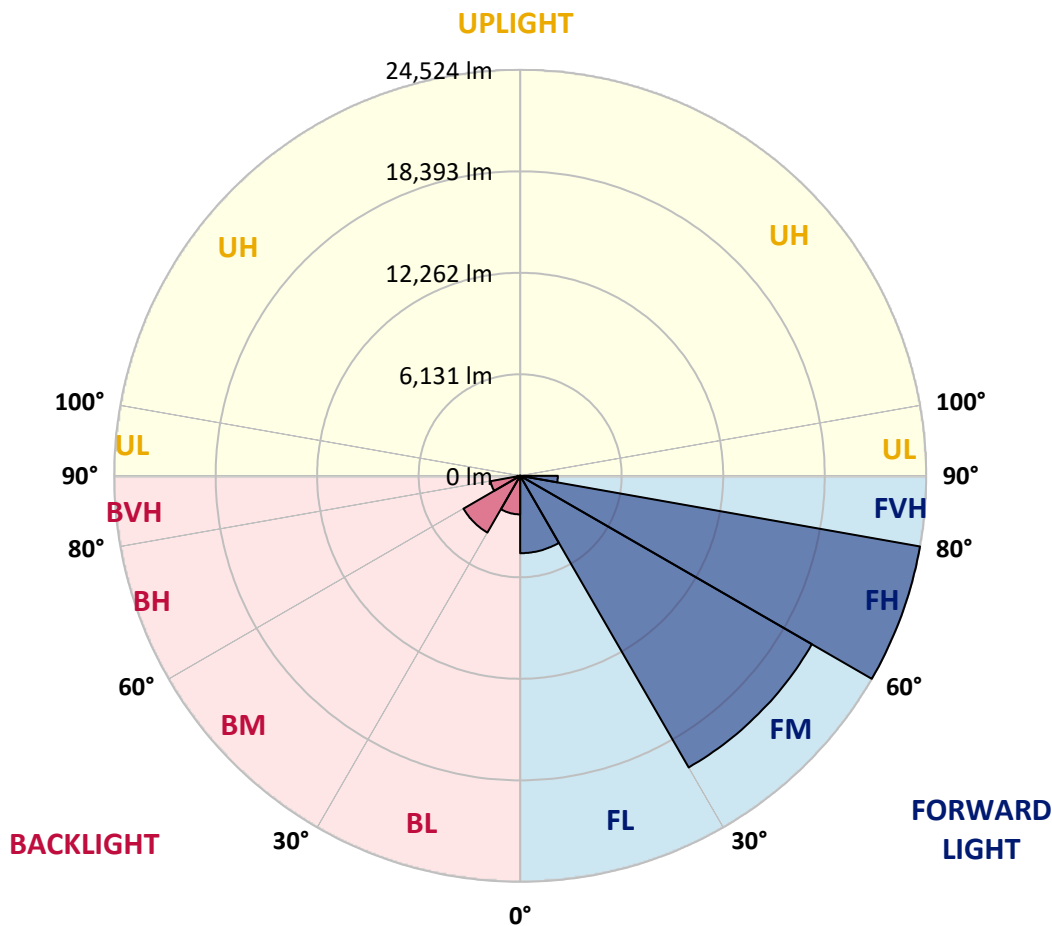
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4675.5	7.8			
FM (30°-60°)	20345.9	33.9			
FH (60°-80°)	24524.5	40.8			G5
FVH (80°-90°)	2273.6	3.8			G5
BL (0°-30°)	2328.8	3.9	B3/2500		
BM (30°-60°)	3956.3	6.6	B3/5000		
BH (60°-80°)	1817.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	165.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1
2.5°	10949.0	10951.1	10949.0	10932.1	10891.9	10858.0	10830.5	10790.3	10701.4	10633.7	10532.1
5°	11052.7	11040.0	11031.6	10999.8	10936.3	10898.2	10845.3	10769.1	10623.1	10487.6	10322.5
7.5°	11004.1	10989.2	10970.2	10932.1	10860.1	10828.4	10754.3	10654.8	10479.2	10301.4	10064.3
10°	10853.8	10849.6	10841.1	10832.6	10771.2	10745.8	10678.1	10572.3	10398.7	10182.8	9905.6
12.5°	10686.6	10697.2	10731.0	10775.5	10748.0	10735.3	10692.9	10621.0	10443.2	10210.3	9875.9
15°	10580.7	10610.4	10701.4	10817.8	10841.1	10836.9	10826.3	10779.7	10591.3	10333.1	9943.7
17.5°	10544.8	10593.4	10767.0	10959.6	11027.3	11042.2	11046.4	10966.0	10756.4	10483.4	10013.5
20°	10610.4	10671.8	10925.7	11190.3	11298.3	11306.7	11287.7	11148.0	10913.0	10612.5	10051.6
22.5°	10809.3	10864.4	11181.9	11480.3	11603.1	11615.8	11558.6	11346.9	11078.1	10764.9	10104.5
25°	11192.4	11260.2	11577.7	11876.1	11939.6	11941.7	11859.2	11596.7	11294.0	10978.7	10218.8
27.5°	11691.9	11759.7	12045.4	12337.5	12303.6	12284.6	12172.4	11910.0	11575.5	11272.9	10422.0
30°	12248.6	12322.7	12593.6	12801.0	12720.6	12682.5	12591.5	12252.8	11967.1	11675.0	10733.1
32.5°	12824.3	12892.0	13129.1	13270.9	13169.3	13152.4	13014.8	12705.8	12477.2	12288.8	11236.9
35°	13414.8	13463.5	13696.3	13776.8	13641.3	13637.1	13599.0	13315.4	13171.4	13260.3	11969.2
37.5°	14018.1	14030.8	14229.7	14234.0	14193.7	14210.7	14250.9	14073.1	14113.3	14390.6	12921.7
40°	14555.7	14589.5	14733.5	14777.9	14847.8	14907.0	15108.1	14991.7	15302.8	15793.9	14107.0
42.5°	14953.6	15019.2	15249.9	15364.2	15590.7	15683.8	15967.4	16075.4	16701.9	17438.4	15516.6
45°	15290.1	15391.7	15762.1	15997.1	16380.2	16543.1	16949.5	17311.4	18283.0	19222.7	17000.3
47.5°	15654.2	15783.3	16246.8	16695.5	17216.2	17400.3	18139.0	18680.9	19969.9	21017.6	18399.4
50°	16189.7	16289.1	16742.1	17446.9	18096.7	18333.8	19356.1	20132.8	21684.3	22727.8	19612.2
52.5°	16936.8	16898.7	17281.8	18270.3	19142.3	19434.4	20655.6	21677.9	23422.0	24275.0	20636.6
55°	17688.2	17624.7	17893.5	19131.7	20361.4	20668.3	22086.4	23229.4	25075.0	25667.7	21421.8
57.5°	18524.2	18403.6	18630.1	20103.2	21749.9	22116.1	23688.7	24878.2	26700.6	26793.7	21921.3
60°	19385.7	19222.7	19476.7	21307.5	23513.0	23944.8	25564.0	26486.8	28233.0	27695.4	22082.2
62.5°	20139.2	20024.9	20416.5	22651.6	25500.5	25974.6	27405.4	28197.0	29744.2	28070.0	21502.3
65°	20797.4	20816.5	21493.8	24162.8	27716.5	28222.4	29517.7	30305.1	30933.7	27847.7	20145.5
67.5°	21582.7	21690.6	22846.3	26152.4	30506.2	31060.7	32591.0	32603.7	31598.3	26543.9	17474.4
70°	22727.8	22950.0	24706.8	28912.4	34472.6	35234.6	36415.6	33954.1	30664.9	23009.3	13749.3
72.5°	23743.7	24158.6	26685.7	32070.3	39306.9	39884.7	38652.9	33175.2	26764.1	17243.7	8565.8
74°	23331.0	23845.3	27045.6	33626.0	41127.1	41404.4	37897.2	30902.0	22315.0	11941.7	4978.2
75°	22442.0	23000.8	26520.7	33611.2	40896.4	40741.9	36072.7	28304.9	18378.2	8144.6	3312.4
77.5°	18111.5	18702.0	22346.8	28806.6	33532.9	33386.8	27710.2	18987.8	8049.3	2671.1	1682.7
80°	10529.9	10980.8	13872.0	18293.5	22611.3	22875.9	18223.7	9395.5	3166.4	1500.7	1140.8
82.5°	4677.6	4988.8	6701.1	9338.3	13645.5	13986.3	9543.6	4923.1	1955.7	912.2	685.8
85°	3069.0	3299.7	4068.1	4446.9	6497.9	6730.7	4671.3	3833.1	1291.1	501.6	503.7
87.5°	2207.6	2429.8	3022.5	2639.4	2982.3	2823.5	2542.0	3547.4	518.6	285.7	169.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1	10587.1
2.5°	10487.6	10453.8	10377.6	10233.6	10153.2	10085.5	9973.3	9907.7	9878.0	9875.9	9888.6
5°	10227.3	10149.0	9952.1	9710.8	9518.2	9342.6	9124.5	8993.3	8900.2	8845.2	8860.0
7.5°	9924.6	9801.8	9492.8	9107.6	8798.6	8457.8	8121.3	7920.2	7763.6	7647.2	7668.3
10°	9717.2	9547.9	9097.0	8542.5	8028.2	7532.9	7069.4	6792.1	6572.0	6402.6	6415.3
12.5°	9647.3	9418.7	8794.4	8053.6	7331.8	6654.5	6049.2	5623.7	5397.3	5204.7	5219.5
15°	9657.9	9351.0	8540.4	7613.3	6705.3	5852.3	5117.9	4620.5	4313.6	4180.2	4182.3
17.5°	9666.4	9272.7	8273.7	7141.3	6085.1	5103.1	4305.1	3801.4	3511.4	3388.6	3390.7
20°	9638.9	9145.7	7943.5	6599.5	5437.5	4415.2	3642.6	3215.1	2995.0	2899.7	2899.7
22.5°	9602.9	8995.4	7571.0	6055.5	4798.3	3818.3	3168.5	2842.6	2715.6	2652.1	2649.9
25°	9619.8	8883.3	7190.0	5496.7	4209.9	3342.1	2853.1	2637.2	2552.6	2512.4	2510.3
27.5°	9710.8	8830.3	6838.6	4940.1	3695.5	2984.4	2641.5	2489.1	2434.1	2408.7	2408.7
30°	9875.9	8830.3	6472.5	4466.0	3268.0	2719.8	2478.5	2374.8	2336.7	2319.8	2319.8
32.5°	10163.8	8879.0	6119.0	3996.1	2927.2	2512.4	2343.0	2273.2	2243.6	2235.1	2235.1
35°	10659.1	9044.1	5774.0	3551.6	2652.1	2343.0	2213.9	2173.7	2152.6	2150.4	2156.8
37.5°	11355.4	9380.7	5450.2	3223.5	2457.3	2205.5	2106.0	2074.2	2061.5	2072.1	2080.6
40°	12231.7	9837.8	5156.0	2927.2	2309.2	2095.4	2006.5	1985.3	1979.0	1993.8	2006.5
42.5°	13290.0	10455.9	4914.7	2713.4	2194.9	2002.3	1921.8	1896.4	1890.1	1907.0	1924.0
45°	14435.0	11120.5	4745.4	2554.7	2106.0	1932.4	1847.8	1820.3	1807.6	1816.0	1835.1
47.5°	15476.4	11749.1	4677.6	2442.5	2021.3	1873.2	1782.2	1748.3	1727.1	1722.9	1737.7
50°	16354.8	12216.9	4709.4	2374.8	1953.6	1807.6	1718.7	1680.6	1648.8	1629.8	1640.3
52.5°	16994.0	12511.1	4739.0	2345.2	1900.7	1735.6	1648.8	1612.8	1570.5	1538.7	1538.7
55°	17457.5	12578.8	4673.4	2321.9	1860.5	1657.3	1570.5	1536.6	1494.3	1458.3	1454.1
57.5°	17639.5	12388.3	4430.0	2288.0	1833.0	1583.2	1488.0	1462.6	1426.6	1384.2	1382.1
60°	17394.0	11799.9	3960.1	2216.1	1797.0	1521.8	1405.4	1388.5	1371.5	1331.3	1329.2
62.5°	16407.7	10508.8	3352.7	2070.0	1725.0	1456.2	1329.2	1337.7	1339.8	1312.3	1308.0
65°	14619.2	8735.1	2760.0	1879.5	1617.1	1377.9	1250.9	1291.1	1314.4	1310.2	1303.8
67.5°	12020.0	6798.4	2338.8	1678.4	1475.3	1269.9	1166.2	1212.8	1231.8	1246.7	1242.4
70°	8921.4	4794.0	1934.5	1466.8	1303.8	1142.9	1056.2	1079.5	1066.8	1083.7	1090.0
72.5°	4973.9	2876.4	1576.8	1255.1	1126.0	994.8	933.4	929.2	901.7	901.7	901.7
74°	2984.4	2110.2	1386.4	1123.9	1018.1	897.4	844.5	825.5	800.1	802.2	800.1
75°	2400.2	1813.9	1272.1	1037.1	941.9	840.3	787.4	762.0	742.9	742.9	740.8
77.5°	1515.5	1377.9	1024.4	825.5	753.5	692.1	656.1	622.3	622.3	620.2	618.0
80°	1145.1	1096.4	797.9	624.4	577.8	531.3	508.0	493.2	493.2	499.5	497.4
82.5°	785.2	825.5	560.9	436.0	412.7	378.9	374.6	376.7	370.4	361.9	359.8
85°	573.6	620.2	378.9	275.2	251.9	230.7	247.6	256.1	245.5	226.5	218.0
87.5°	220.1	406.4	203.2	114.3	105.8	91.0	105.8	110.1	118.5	93.1	95.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)