

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: P320022

Luminaire Tested: **GAN-SA8D-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320022  
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-SA8D-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA 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: 59089 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

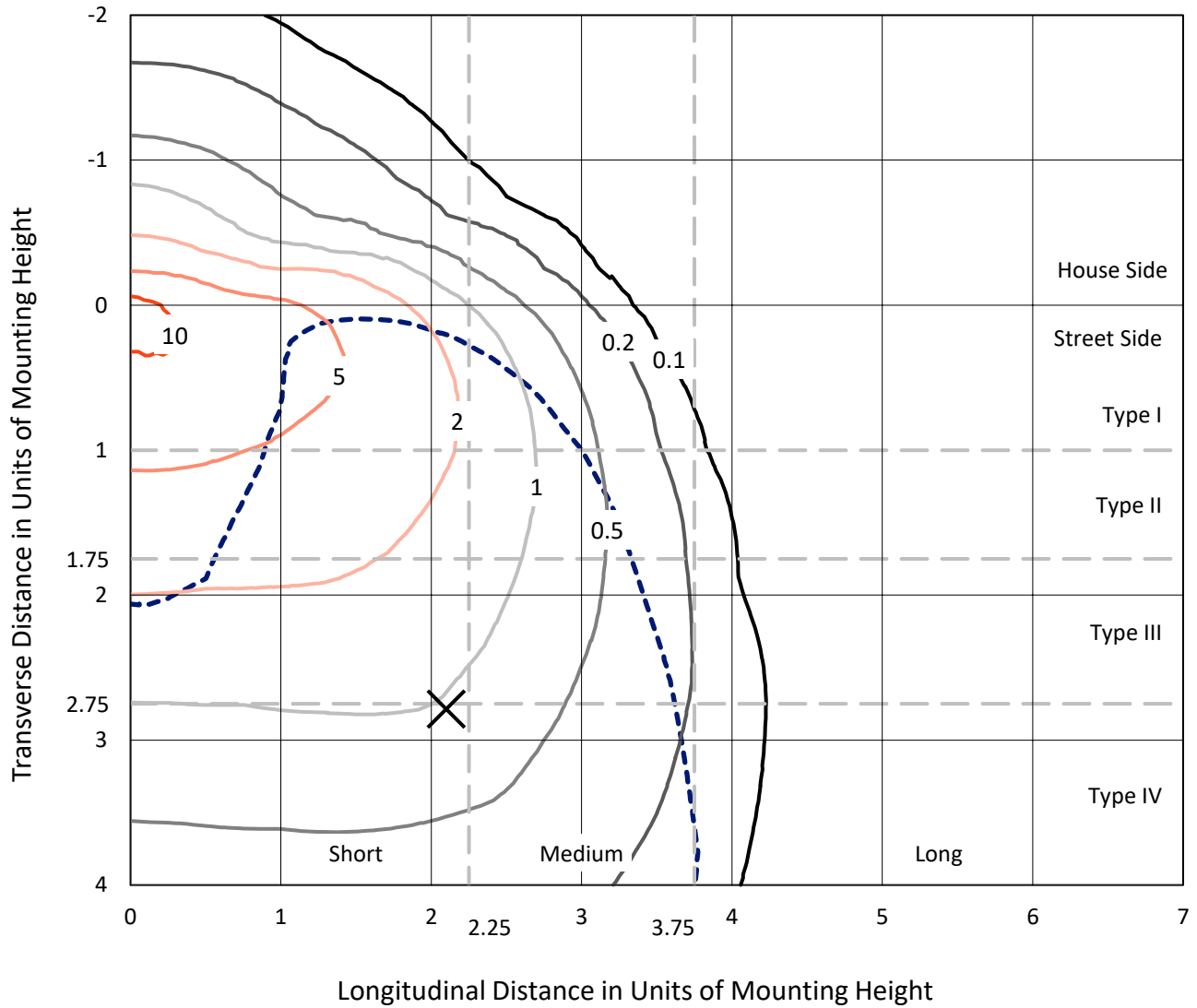
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

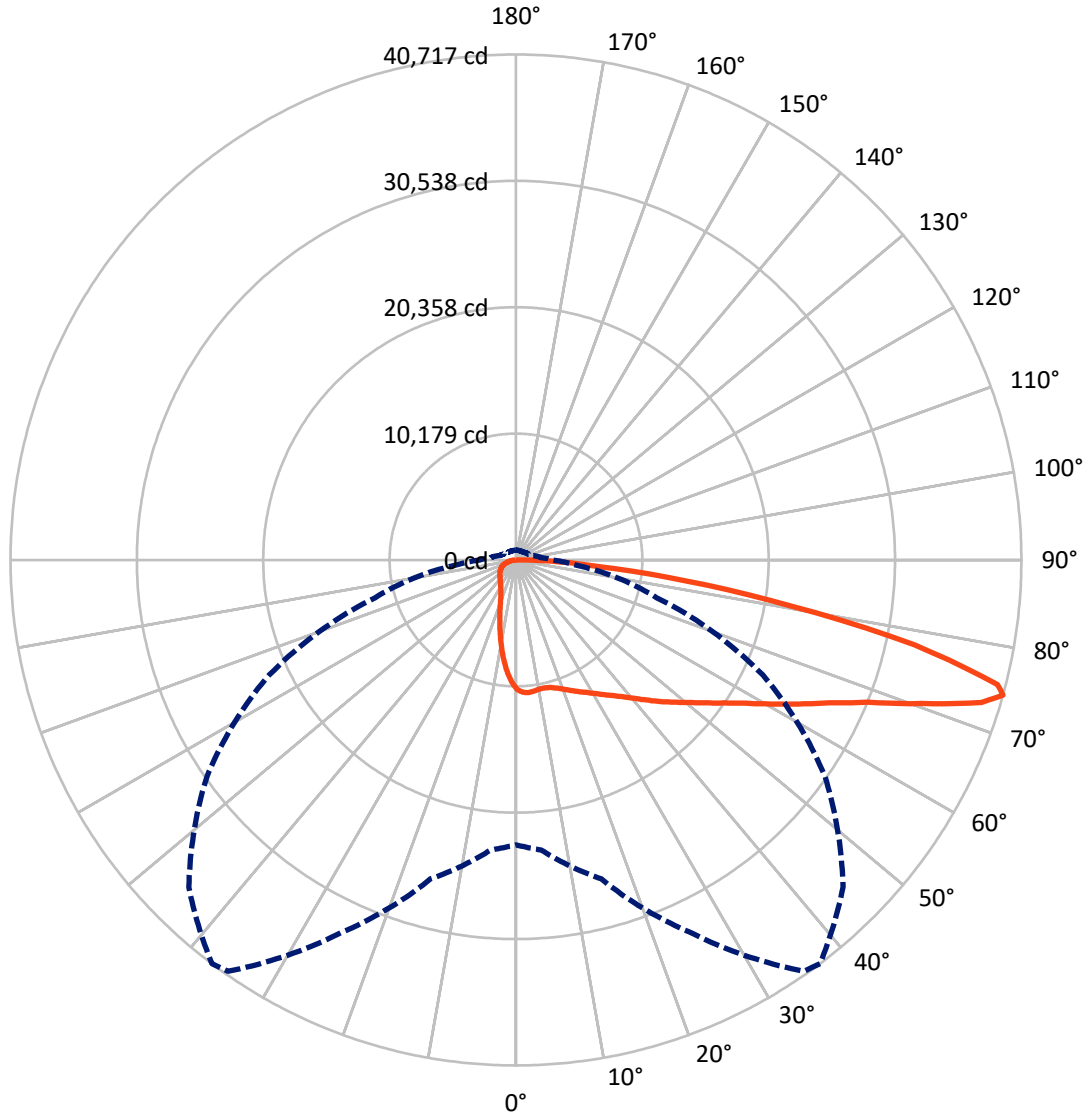
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 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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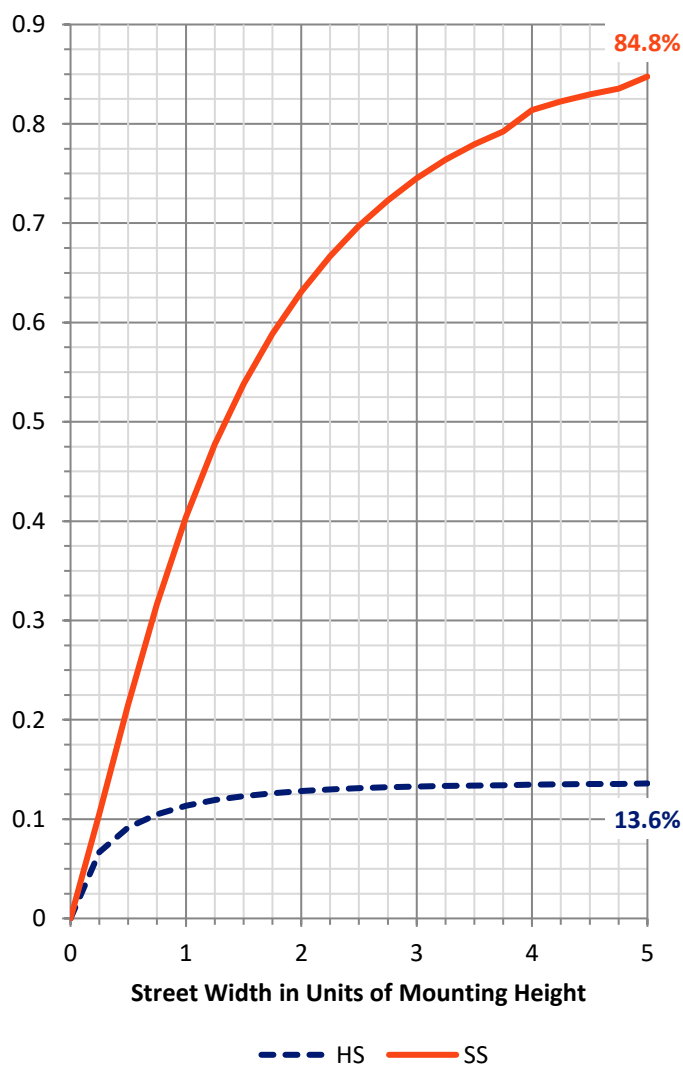
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8130.2	0.0	8130.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	50958.8	0.0	50958.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	59089.0	0.0	59089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.8	1.6
10°-20°	2350.1	4.0
20°-30°	3621.0	6.1
30°-40°	5265.5	8.9
40°-50°	7749.9	13.1
50°-60°	10883.3	18.4
60°-70°	13774.9	23.3
70°-80°	12129.3	20.5
80°-90°	2398.2	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°	59089.0	100.0
0°-180°	59089.0	100.0

**Coefficient of Utilization**



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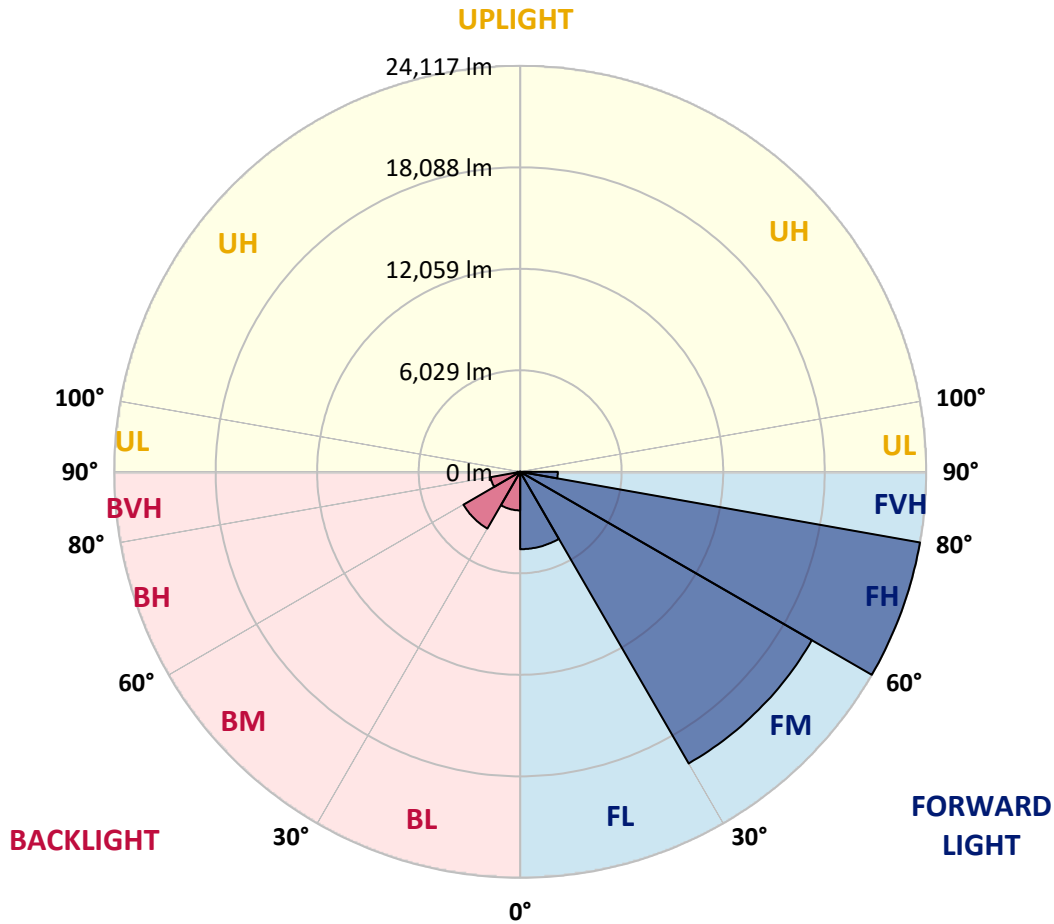
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4597.8	7.8			
FM (30°-60°)	20008.0	33.9			
FH (60°-80°)	24117.1	40.8			G5
FVH (80°-90°)	2235.8	3.8			G5
BL (0°-30°)	2290.1	3.9	B3/2500		
BM (30°-60°)	3890.6	6.6	B3/5000		
BH (60°-80°)	1787.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	162.4	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°	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3
2.5°	10767.2	10769.3	10767.2	10750.5	10711.0	10677.7	10650.6	10611.1	10523.6	10457.0	10357.1
5°	10869.2	10856.7	10848.4	10817.1	10754.7	10717.2	10665.2	10590.3	10446.6	10313.4	10151.1
7.5°	10821.3	10806.7	10788.0	10750.5	10679.8	10648.5	10575.7	10477.9	10305.1	10130.3	9897.1
10°	10673.5	10669.3	10661.0	10652.7	10592.3	10567.4	10500.8	10396.7	10226.0	10013.7	9741.0
12.5°	10509.1	10519.5	10552.8	10596.5	10569.4	10557.0	10515.3	10444.6	10269.7	10040.8	9711.9
15°	10405.0	10434.1	10523.6	10638.1	10661.0	10656.9	10646.5	10600.7	10415.4	10161.5	9778.5
17.5°	10369.6	10417.5	10588.2	10777.6	10844.2	10858.8	10862.9	10783.8	10577.8	10309.3	9847.2
20°	10434.1	10494.5	10744.3	11004.5	11110.6	11118.9	11100.2	10962.8	10731.8	10436.2	9884.7
22.5°	10629.8	10683.9	10996.1	11289.6	11410.3	11422.8	11366.6	11158.5	10894.1	10586.1	9936.7
25°	11006.5	11073.1	11385.4	11678.8	11741.3	11743.4	11662.2	11404.1	11106.4	10796.3	10049.1
27.5°	11497.8	11564.4	11845.3	12132.6	12099.3	12080.6	11970.2	11712.1	11383.3	11085.6	10248.9
30°	12045.2	12118.0	12384.4	12588.4	12509.3	12471.9	12382.4	12049.3	11768.3	11481.1	10554.9
32.5°	12611.3	12677.9	12911.0	13050.5	12950.6	12933.9	12798.6	12494.8	12270.0	12084.7	11050.2
35°	13192.0	13239.9	13468.9	13547.9	13414.7	13410.6	13373.1	13094.2	12952.7	13040.1	11770.4
37.5°	13785.2	13797.7	13993.4	13997.5	13958.0	13974.6	14014.2	13839.3	13878.9	14151.6	12707.1
40°	14313.9	14347.2	14488.8	14532.5	14601.1	14659.4	14857.2	14742.7	15048.7	15531.5	13872.7
42.5°	14705.2	14769.7	14996.6	15109.0	15331.7	15423.3	15702.2	15808.4	16424.5	17148.8	15258.9
45°	15036.2	15136.1	15500.3	15731.4	16108.1	16268.4	16668.0	17023.9	17979.3	18903.4	16717.9
47.5°	15394.2	15521.1	15977.0	16418.2	16930.3	17111.3	17837.8	18370.6	19638.2	20668.5	18093.8
50°	15920.8	16018.6	16464.0	17157.1	17796.1	18029.2	19034.6	19798.4	21324.1	22350.3	19286.4
52.5°	16655.5	16618.0	16994.8	17966.8	18824.3	19111.6	20312.6	21317.9	23033.0	23871.8	20293.8
55°	17394.4	17332.0	17596.3	18813.9	20023.2	20325.0	21719.6	22843.6	24658.6	25241.4	21066.0
57.5°	18216.6	18097.9	18320.6	19769.3	21388.7	21748.7	23295.2	24465.0	26257.1	26348.7	21557.2
60°	19063.7	18903.4	19153.2	20953.6	23122.5	23547.1	25139.4	26046.9	27764.0	27235.4	21715.4
62.5°	19804.7	19692.3	20077.4	22275.3	25076.9	25543.2	26950.2	27728.7	29250.2	27603.8	21145.1
65°	20452.0	20470.7	21136.8	23761.5	27256.2	27753.6	29027.5	29801.7	30419.9	27385.2	19810.9
67.5°	21224.2	21330.4	22466.8	25718.0	29999.5	30544.8	32049.7	32062.2	31073.5	26103.1	17184.2
70°	22350.3	22568.8	24296.4	28432.2	33900.1	34649.4	35810.8	33390.1	30155.6	22627.1	13520.9
72.5°	23349.3	23757.3	26242.5	31537.6	38654.0	39222.2	38010.9	32624.1	26319.5	16957.3	8423.5
74°	22943.5	23449.3	26596.4	33067.5	40444.0	40716.7	37267.8	30388.7	21944.4	11743.4	4895.5
75°	22069.3	22618.8	26080.2	33052.9	40217.2	40065.2	35473.6	27834.8	18073.0	8009.3	3257.4
77.5°	17810.7	18391.4	21975.6	28328.1	32975.9	32832.3	27249.9	18672.4	7915.6	2626.7	1654.7
80°	10355.1	10798.4	13641.6	17989.7	22235.8	22496.0	17921.0	9239.4	3113.8	1475.7	1121.9
82.5°	4599.9	4905.9	6589.8	9183.2	13418.9	13754.0	9385.1	4841.4	1923.2	897.1	674.4
85°	3018.1	3244.9	4000.5	4373.1	6390.0	6618.9	4593.7	3769.4	1269.7	493.3	495.4
87.5°	2170.9	2389.5	2972.3	2595.5	2932.7	2776.6	2499.8	3488.5	509.9	281.0	166.5
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°	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3	10411.3
2.5°	10313.4	10280.1	10205.2	10063.7	9984.6	9918.0	9807.6	9743.1	9714.0	9711.9	9724.4
5°	10057.4	9980.4	9786.8	9549.5	9360.1	9187.4	8973.0	8843.9	8752.4	8698.2	8712.8
7.5°	9759.8	9639.0	9335.2	8956.3	8652.5	8317.3	7986.4	7788.7	7634.6	7520.2	7541.0
10°	9555.8	9389.3	8945.9	8400.6	7894.8	7407.8	6951.9	6679.3	6462.8	6296.3	6308.8
12.5°	9487.1	9262.3	8648.3	7919.8	7210.0	6544.0	5948.7	5530.3	5307.6	5118.2	5132.8
15°	9497.5	9195.7	8398.5	7486.9	6593.9	5755.1	5032.9	4543.7	4241.9	4110.8	4112.9
17.5°	9505.8	9118.7	8136.3	7022.7	5984.1	5018.3	4233.6	3738.2	3453.1	3332.4	3334.4
20°	9478.8	8993.8	7811.6	6489.9	5347.2	4341.8	3582.1	3161.7	2945.2	2851.5	2851.5
22.5°	9443.4	8846.0	7445.2	5954.9	4718.6	3754.9	3115.9	2795.3	2670.5	2608.0	2605.9
25°	9460.0	8735.7	7070.6	5405.4	4139.9	3286.6	2805.8	2593.4	2510.2	2470.6	2468.6
27.5°	9549.5	8683.7	6725.1	4858.0	3634.2	2934.8	2597.6	2447.7	2393.6	2368.7	2368.7
30°	9711.9	8683.7	6365.0	4391.8	3213.7	2674.6	2437.3	2335.4	2297.9	2281.2	2281.2
32.5°	9995.0	8731.5	6017.4	3929.7	2878.6	2470.6	2304.1	2235.4	2206.3	2198.0	2198.0
35°	10482.0	8893.9	5678.1	3492.6	2608.0	2304.1	2177.2	2137.6	2116.8	2114.7	2121.0
37.5°	11166.8	9224.8	5359.7	3170.0	2416.5	2168.8	2071.0	2039.8	2027.3	2037.7	2046.0
40°	12028.5	9674.4	5070.3	2878.6	2270.8	2060.6	1973.2	1952.4	1946.1	1960.7	1973.2
42.5°	13069.2	10282.2	4833.1	2668.4	2158.4	1969.0	1889.9	1865.0	1858.7	1875.4	1892.0
45°	14195.3	10935.8	4666.5	2512.3	2071.0	1900.3	1817.1	1790.0	1777.5	1785.9	1804.6
47.5°	15219.3	11554.0	4599.9	2402.0	1987.8	1842.1	1752.6	1719.3	1698.4	1694.3	1708.8
50°	16083.1	12013.9	4631.2	2335.4	1921.1	1777.5	1690.1	1652.6	1621.4	1602.7	1613.1
52.5°	16711.7	12303.3	4660.3	2306.2	1869.1	1706.8	1621.4	1586.0	1544.4	1513.2	1513.2
55°	17167.5	12369.9	4595.8	2283.3	1829.6	1629.8	1544.4	1511.1	1469.5	1434.1	1429.9
57.5°	17346.5	12182.5	4356.4	2250.0	1802.5	1556.9	1463.2	1438.3	1402.9	1361.2	1359.2
60°	17105.1	11603.9	3894.3	2179.2	1767.1	1496.5	1382.1	1365.4	1348.8	1309.2	1307.1
62.5°	16135.2	10334.2	3297.0	2035.6	1696.4	1432.0	1307.1	1315.5	1317.5	1290.5	1286.3
65°	14376.4	8590.0	2714.2	1848.3	1590.2	1355.0	1230.1	1269.7	1292.6	1288.4	1282.2
67.5°	11820.4	6685.5	2300.0	1650.6	1450.7	1248.9	1146.9	1192.7	1211.4	1226.0	1221.8
70°	8773.2	4714.4	1902.4	1442.4	1282.2	1124.0	1038.6	1061.5	1049.0	1065.7	1071.9
72.5°	4891.3	2828.6	1550.7	1234.3	1107.3	978.3	917.9	913.7	886.7	886.7	886.7
74°	2934.8	2075.2	1363.3	1105.2	1001.2	882.5	830.5	811.8	786.8	788.9	786.8
75°	2360.3	1783.8	1250.9	1019.9	926.2	826.3	774.3	749.3	730.6	730.6	728.5
77.5°	1490.3	1355.0	1007.4	811.8	741.0	680.6	645.2	611.9	611.9	609.9	607.8
80°	1126.0	1078.2	784.7	614.0	568.2	522.4	499.5	485.0	485.0	491.2	489.1
82.5°	772.2	811.8	551.6	428.8	405.9	372.6	368.4	370.5	364.2	355.9	353.8
85°	564.1	609.9	372.6	270.6	247.7	226.9	243.5	251.9	241.4	222.7	214.4
87.5°	216.5	399.6	199.8	112.4	104.1	89.5	104.1	108.2	116.6	91.6	93.7
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)