

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: P319363

Luminaire Tested: **GAN-SA9B-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50048 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

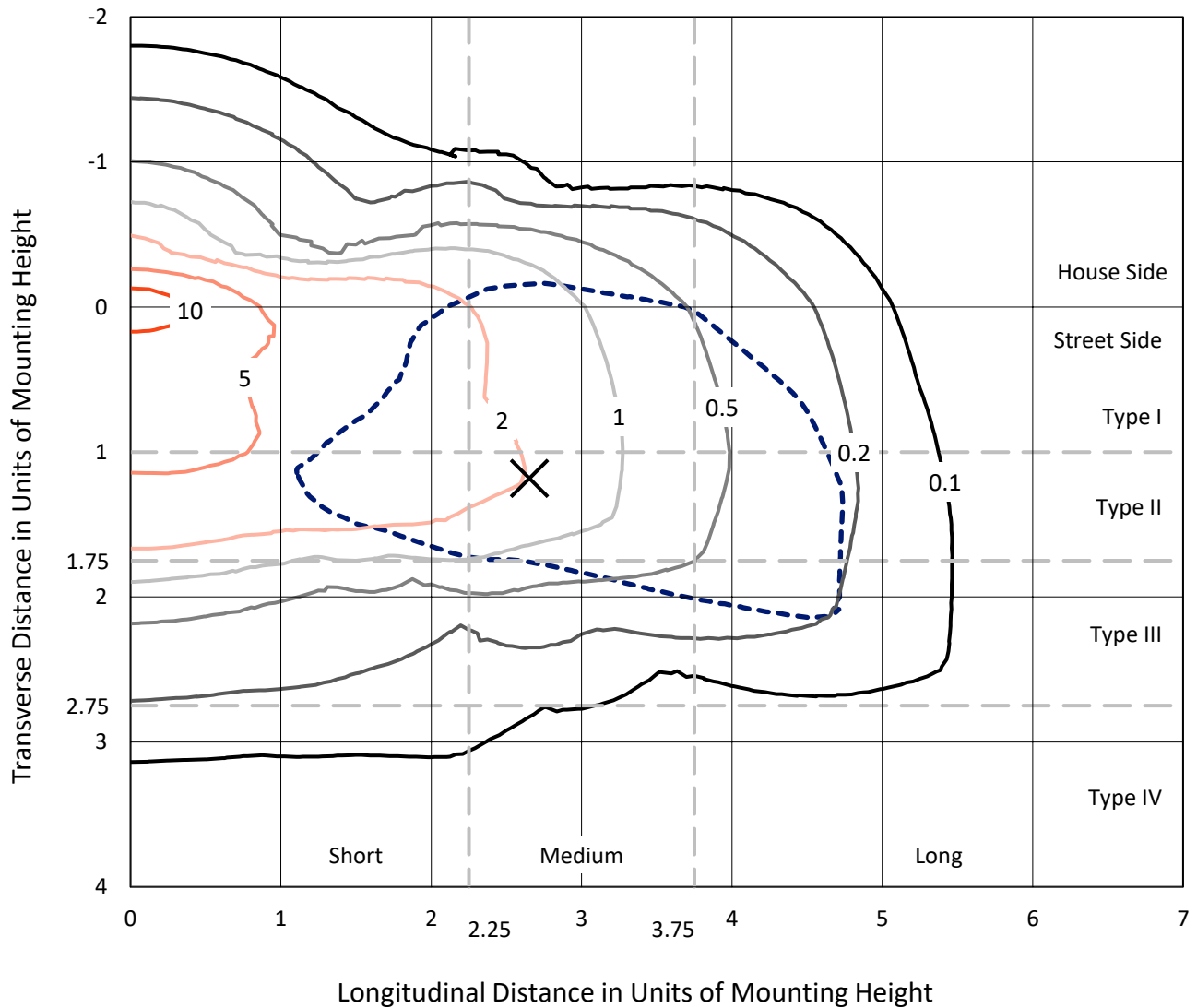
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

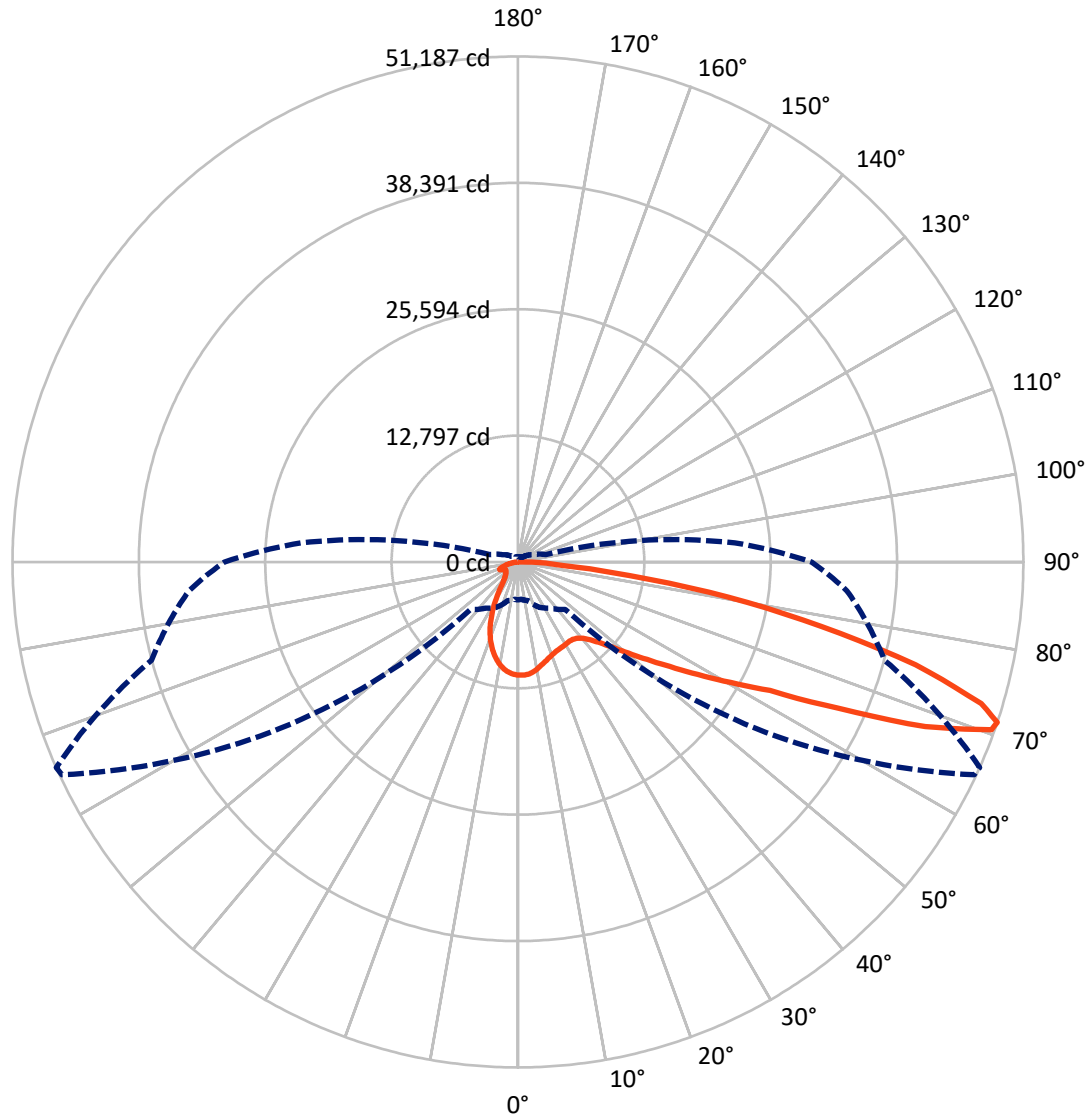
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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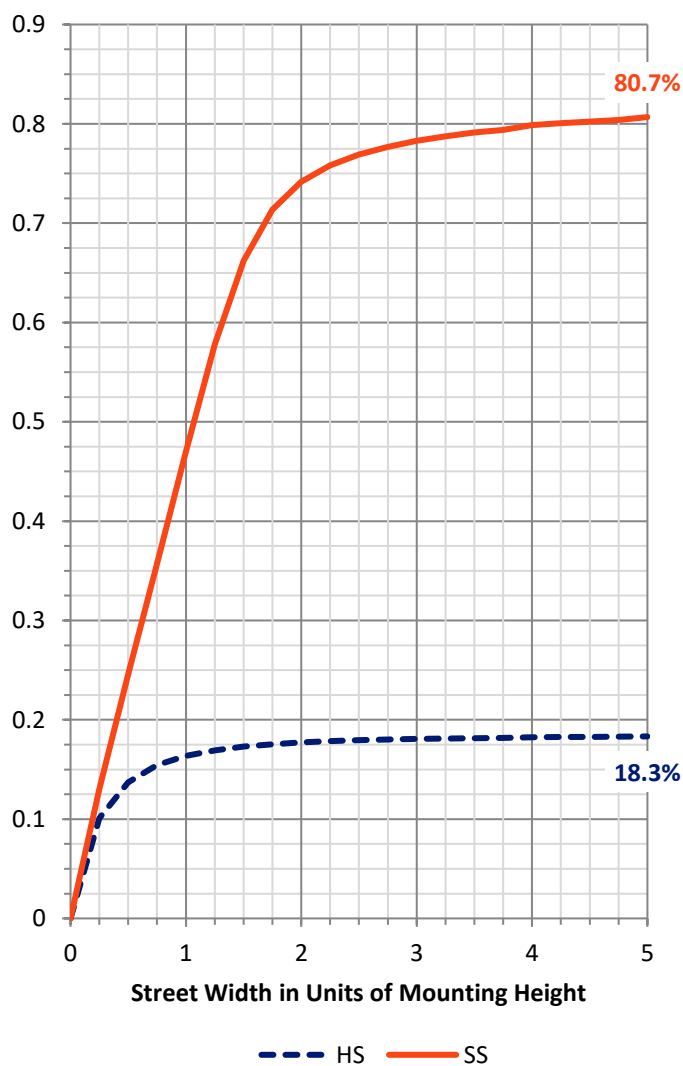
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9275.3	0.0	9275.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	40772.7	0.0	40772.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	50048.0	0.0	50048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1009.2	2.0
10°-20°	2420.5	4.8
20°-30°	3251.3	6.5
30°-40°	4277.1	8.5
40°-50°	6222.0	12.4
50°-60°	9719.4	19.4
60°-70°	12175.2	24.3
70°-80°	9286.9	18.6
80°-90°	1686.4	3.4
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°	50048.0	100.0
0°-180°	50048.0	100.0

**Coefficient of Utilization**



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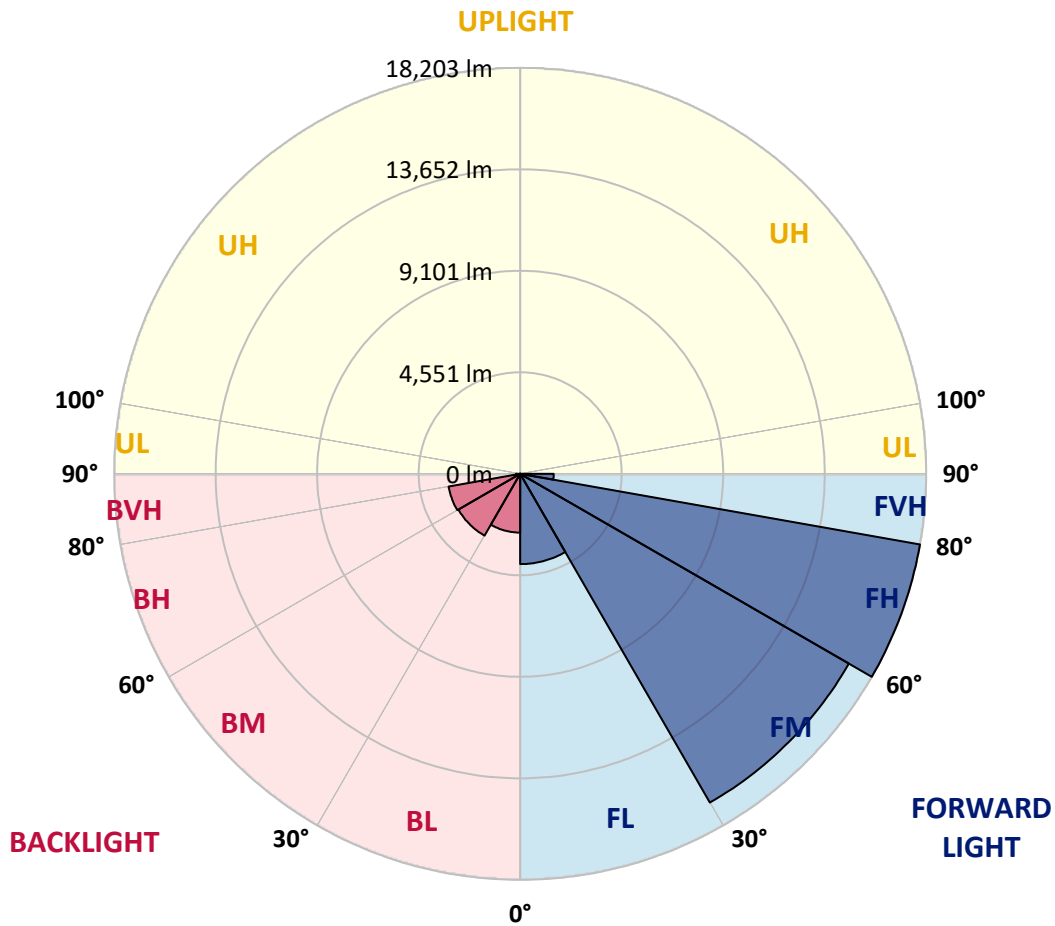
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4047.1	8.1			
FM (30°-60°)	17018.8	34.0			
FH (60°-80°)	18203.0	36.4			G5
FVH (80°-90°)	1503.9	3.0			G5
BL (0°-30°)	2633.9	5.3	B4/5000		
BM (30°-60°)	3199.7	6.4	B3/5000		
BH (60°-80°)	3259.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	182.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0
2.5°	11252.5	11235.2	11287.0	11340.6	11361.4	11395.9	11447.7	11477.1	11475.4	11480.6	11463.3
5°	10506.0	10483.5	10587.2	10671.9	10834.3	11017.5	11240.4	11399.4	11402.8	11492.7	11516.9
7.5°	9799.3	9783.7	9903.0	10039.5	10227.8	10507.7	10868.9	11211.0	11231.8	11475.4	11560.1
10°	9232.5	9229.0	9344.8	9493.4	9712.9	10025.6	10440.3	10941.5	10972.6	11392.5	11567.0
12.5°	8790.1	8797.1	8897.3	9066.6	9298.2	9624.7	10074.0	10639.1	10689.2	11261.1	11527.2
15°	8463.6	8491.2	8572.4	8743.5	8971.6	9303.3	9764.7	10359.1	10435.2	11114.3	11504.8
17.5°	8276.9	8308.0	8365.1	8506.8	8721.0	9040.7	9477.9	10129.3	10198.4	11001.9	11506.5
20°	8221.6	8247.6	8280.4	8366.8	8548.2	8838.5	9251.5	9922.0	9996.3	10912.1	11523.8
22.5°	8330.5	8349.5	8353.0	8346.1	8456.6	8693.4	9087.4	9769.9	9849.4	10853.3	11535.9
25°	8563.8	8589.7	8570.7	8506.8	8470.5	8615.6	9002.7	9669.7	9749.2	10810.1	11511.7
27.5°	8914.6	8918.0	8902.5	8819.5	8648.4	8624.3	8976.8	9610.9	9687.0	10760.0	11461.6
30°	9391.5	9413.9	9386.3	9274.0	8994.0	8762.5	9007.9	9553.9	9623.0	10696.1	11380.4
32.5°	9949.6	10004.9	10003.2	9885.7	9484.8	9071.8	9135.7	9519.3	9572.9	10628.7	11281.9
35°	10528.5	10604.5	10746.2	10696.1	10200.2	9560.8	9381.1	9574.6	9610.9	10620.1	11212.7
37.5°	11129.8	11205.8	11497.9	11632.6	11052.0	10260.6	9768.2	9769.9	9787.2	10725.5	11207.6
40°	11758.8	11840.0	12278.9	12629.7	12156.2	11147.1	10392.0	10177.7	10158.7	10984.7	11309.5
42.5°	12640.0	12712.6	13239.6	13687.2	13381.3	12282.4	11254.2	10806.7	10766.9	11492.7	11636.1
45°	13754.6	13816.8	14376.6	14855.3	14698.0	13578.3	12337.6	11672.4	11665.5	12339.4	12297.9
47.5°	15079.9	15128.3	15631.1	16094.2	16151.3	15069.6	13699.3	13008.1	12895.8	13500.6	13322.6
50°	16460.6	16514.1	16856.3	17353.9	17777.3	17065.4	15451.4	14644.5	14494.1	15033.3	14774.1
52.5°	17374.7	17445.5	17742.7	18373.4	19605.5	19253.0	17523.3	16628.2	16400.1	16890.8	16692.1
55°	16966.9	17125.8	17580.3	18591.1	21067.3	22594.8	20078.9	18941.9	18684.5	19092.3	18974.8
57.5°	15112.8	15330.5	15950.8	17511.2	21272.9	25539.3	23942.6	21666.9	21485.5	21368.0	21421.5
60°	11724.2	11933.3	12702.2	14736.1	19840.5	27688.9	29757.2	25026.1	24763.4	23652.3	23700.7
62.5°	8297.7	8192.3	8719.3	10207.1	16121.9	27941.1	36373.6	29518.8	28654.8	26064.6	25852.0
65°	6327.8	6303.6	6540.3	7013.8	9764.7	24922.4	40315.1	37070.0	35720.4	28901.9	28400.8
67.5°	5199.4	5156.2	5389.5	6079.0	6288.1	16078.7	40401.5	45830.7	44505.4	32433.8	31348.7
70°	4275.0	4226.6	4444.3	5334.2	5811.1	8154.3	34002.8	50961.1	50890.2	36905.8	33574.3
71°	3832.6	3798.1	4059.0	5047.4	5709.2	6796.1	29358.1	50974.9	51187.4	38419.5	33443.0
72.5°	3120.7	3132.8	3409.3	4492.7	5633.2	6001.2	21577.1	48598.9	49048.2	39862.4	32249.0
75°	2073.6	2083.9	2446.8	3455.9	5462.1	5871.6	11859.0	40779.9	41605.9	38998.4	29427.2
77.5°	1392.7	1389.3	1636.4	2370.8	4758.8	5871.6	6953.3	30500.3	31407.4	31030.7	22686.4
80°	959.0	952.1	1126.6	1636.4	3602.8	5942.5	5375.7	21374.9	21649.6	16757.8	9220.4
82.5°	587.5	592.7	736.1	1156.0	2452.0	5348.0	5075.0	11655.1	11356.2	4700.1	2303.4
85°	337.0	335.2	470.0	782.8	1574.2	4513.4	4948.9	5016.3	4601.6	1415.2	832.9
87.5°	121.0	129.6	252.3	433.7	902.0	3143.2	4198.9	2609.2	2351.8	639.3	376.7
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°	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0	11465.0
2.5°	11451.2	11461.6	11449.5	11380.4	11321.6	11226.6	11173.0	11098.7	11076.2	11065.9	11093.5
5°	11494.4	11497.9	11395.9	11214.5	11010.6	10770.4	10597.6	10385.1	10284.8	10241.6	10269.3
7.5°	11534.1	11518.6	11295.7	10948.4	10571.7	10153.5	9782.0	9441.6	9242.9	9161.7	9168.6
10°	11539.3	11473.7	11116.0	10578.6	9994.5	9381.1	8810.9	8285.6	7953.8	7737.8	7803.5
12.5°	11485.8	11375.2	10851.6	10099.9	9289.5	8453.2	7682.5	6894.6	6421.1	6201.7	6208.6
15°	11444.3	11243.8	10526.7	9536.6	8448.0	7340.4	6288.1	5361.9	4857.3	4632.7	4527.3
17.5°	11409.7	11102.2	10150.0	8902.5	7454.4	6049.6	4784.7	3958.8	3682.3	3616.6	3589.0
20°	11361.4	10951.8	9730.2	8168.1	6322.6	4605.0	3493.9	3086.1	3087.9	3163.9	3174.3
22.5°	11294.0	10780.8	9282.6	7343.8	5107.9	3354.0	2738.8	2621.3	2740.5	2885.7	2911.6
25°	11193.7	10578.6	8785.0	6433.2	3894.8	2578.1	2339.7	2334.5	2479.6	2631.7	2654.1
27.5°	11052.0	10314.2	8232.0	5455.2	2870.1	2191.1	2096.0	2132.3	2239.4	2350.0	2358.7
30°	10862.0	10006.6	7622.0	4423.6	2249.8	1950.9	1940.5	1973.3	2039.0	2116.8	2123.7
32.5°	10652.9	9693.9	6970.6	3424.8	1926.7	1821.3	1831.6	1847.2	1878.3	1909.4	1916.3
35°	10462.8	9374.2	6303.6	2602.3	1772.9	1736.6	1729.7	1726.2	1729.7	1719.3	1721.1
37.5°	10340.1	9109.8	5609.0	2071.8	1684.8	1662.3	1641.6	1615.6	1586.3	1569.0	1572.4
40°	10295.2	8912.8	4905.7	1790.2	1612.2	1596.6	1556.9	1501.6	1467.0	1456.7	1456.7
42.5°	10416.2	8810.9	4226.6	1648.5	1551.7	1525.8	1460.1	1396.2	1370.3	1368.5	1366.8
45°	10785.9	8852.3	3580.3	1570.7	1496.4	1446.3	1359.9	1306.3	1289.1	1292.5	1290.8
47.5°	11449.5	9113.3	3027.4	1518.9	1441.1	1375.5	1278.7	1235.5	1214.8	1214.8	1216.5
50°	12577.8	9723.2	2586.8	1475.7	1394.5	1309.8	1219.9	1166.4	1138.7	1137.0	1137.0
52.5°	14221.1	10815.3	2312.0	1439.4	1342.6	1251.0	1161.2	1093.8	1061.0	1054.1	1050.6
55°	16280.9	12380.8	2236.0	1415.2	1273.5	1187.1	1090.3	1023.0	986.7	971.1	969.4
57.5°	18584.2	14285.1	2386.3	1385.8	1202.7	1111.1	1012.6	948.7	910.6	891.6	889.9
60°	20915.3	16363.8	2999.7	1344.4	1143.9	1028.1	933.1	874.3	836.3	815.6	812.1
62.5°	23249.7	18554.9	4252.5	1340.9	1102.4	948.7	851.9	801.8	765.5	743.0	737.8
65°	25883.1	20953.3	5676.4	1432.5	1088.6	876.1	768.9	729.2	698.1	677.4	675.6
67.5°	28907.1	23661.0	5539.8	1620.8	1135.3	810.4	691.2	660.1	637.6	620.3	618.6
70°	30325.7	23237.6	3443.8	1753.9	1200.9	746.5	616.9	594.4	577.1	565.0	559.9
71°	29731.3	22064.3	2887.4	1738.3	1194.0	718.8	587.5	570.2	552.9	542.6	537.4
72.5°	28110.5	20122.1	2408.8	1617.4	1116.3	668.7	549.5	532.2	516.7	504.6	501.1
75°	25224.8	17970.8	1928.4	1292.5	889.9	565.0	482.1	463.1	451.0	444.1	437.2
77.5°	18542.8	12824.9	1491.2	1021.2	654.9	461.4	411.3	397.4	385.3	375.0	369.8
80°	7103.7	4967.9	1003.9	762.0	480.4	364.6	331.8	324.9	312.8	305.8	305.8
82.5°	1912.9	1484.3	535.7	461.4	321.4	266.1	254.0	250.6	240.2	226.4	228.1
85°	774.1	654.9	300.7	254.0	197.0	157.2	171.1	172.8	160.7	143.4	145.1
87.5°	340.4	278.2	167.6	112.3	86.4	60.5	77.8	77.8	70.8	58.8	53.6
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)