

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: McGRAW-EDISON

Report Number: P383669

Luminaire Tested: **GLEON-SA9C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383669
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: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA 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: 57703.8 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

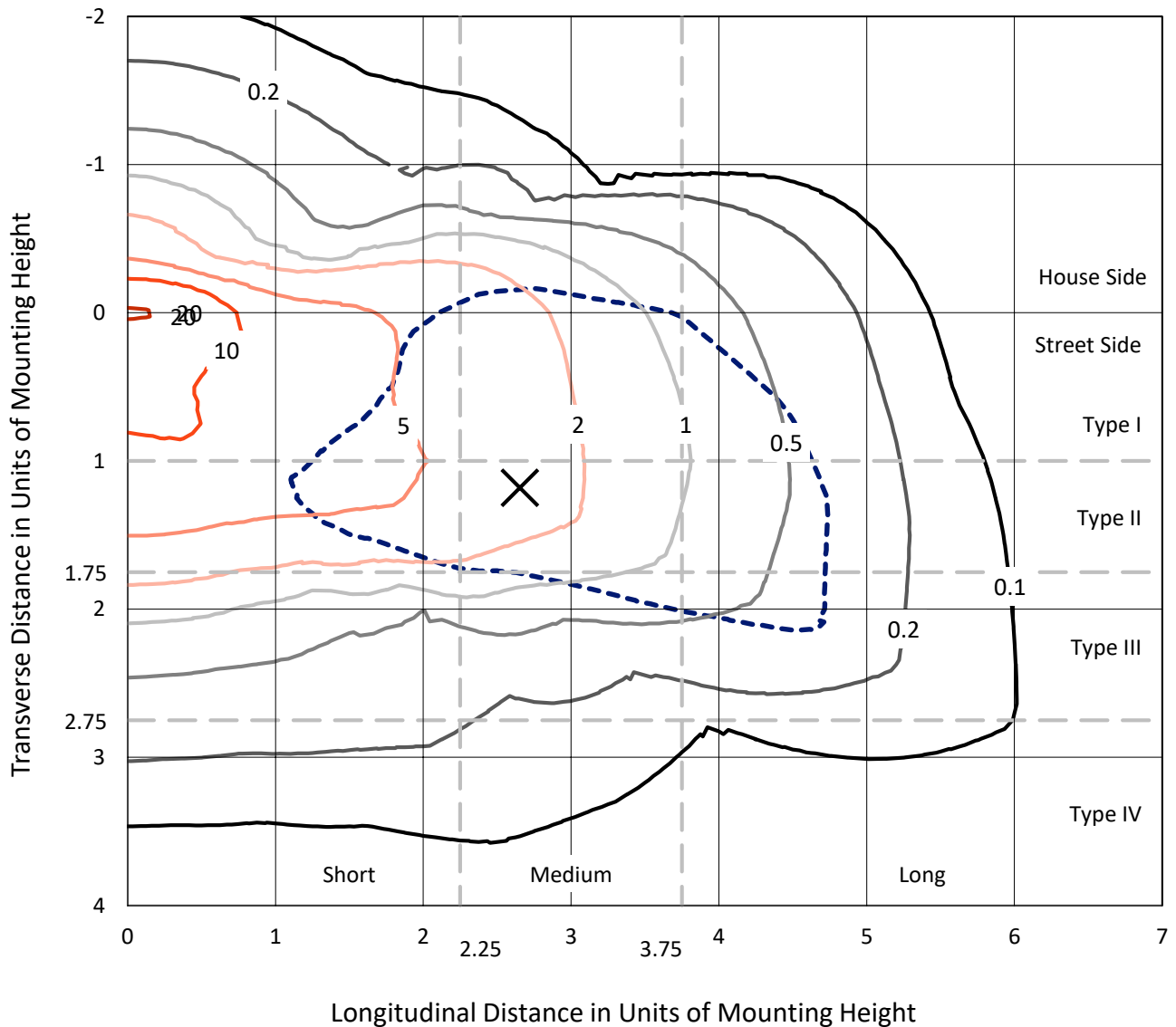
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

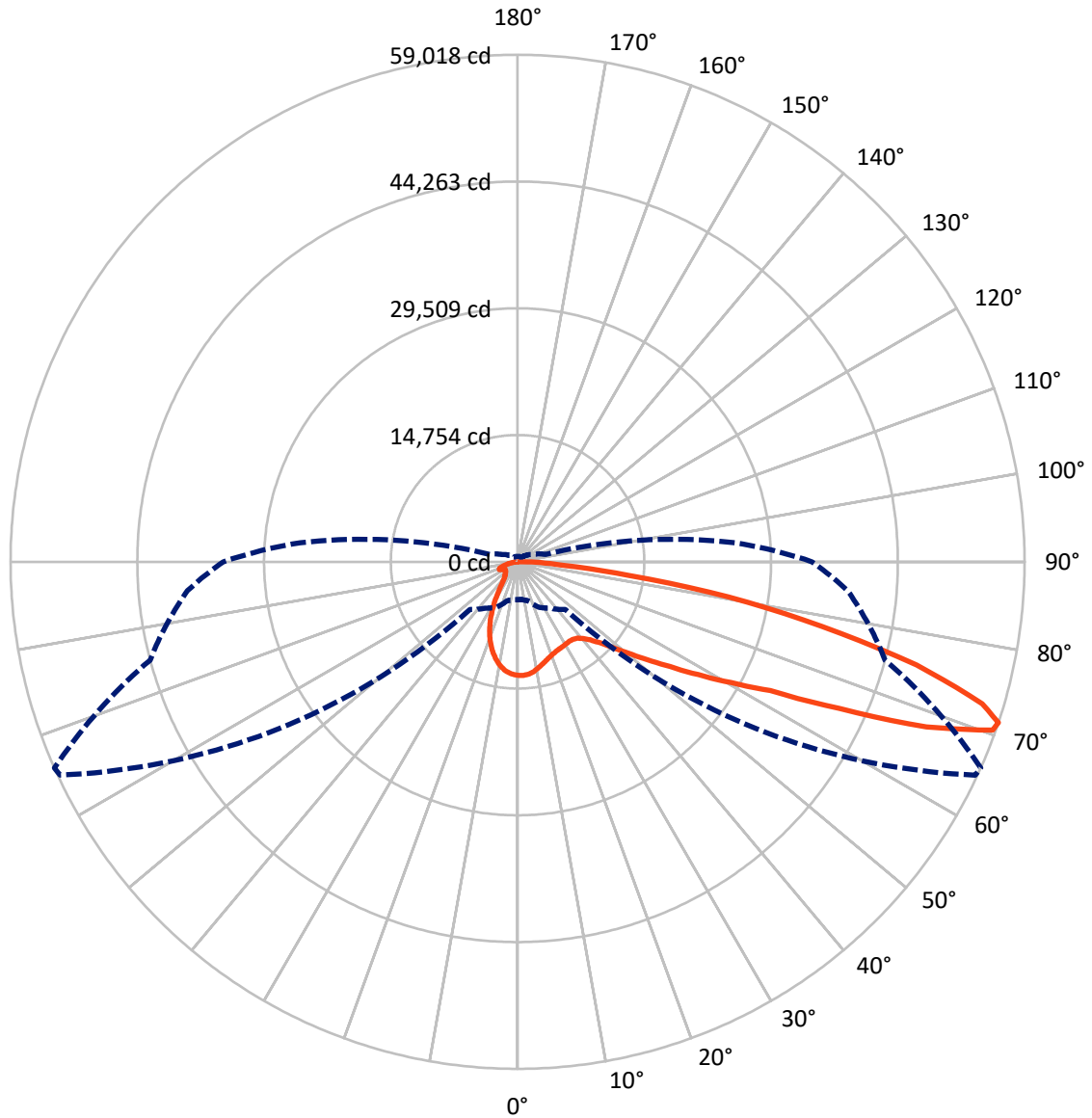
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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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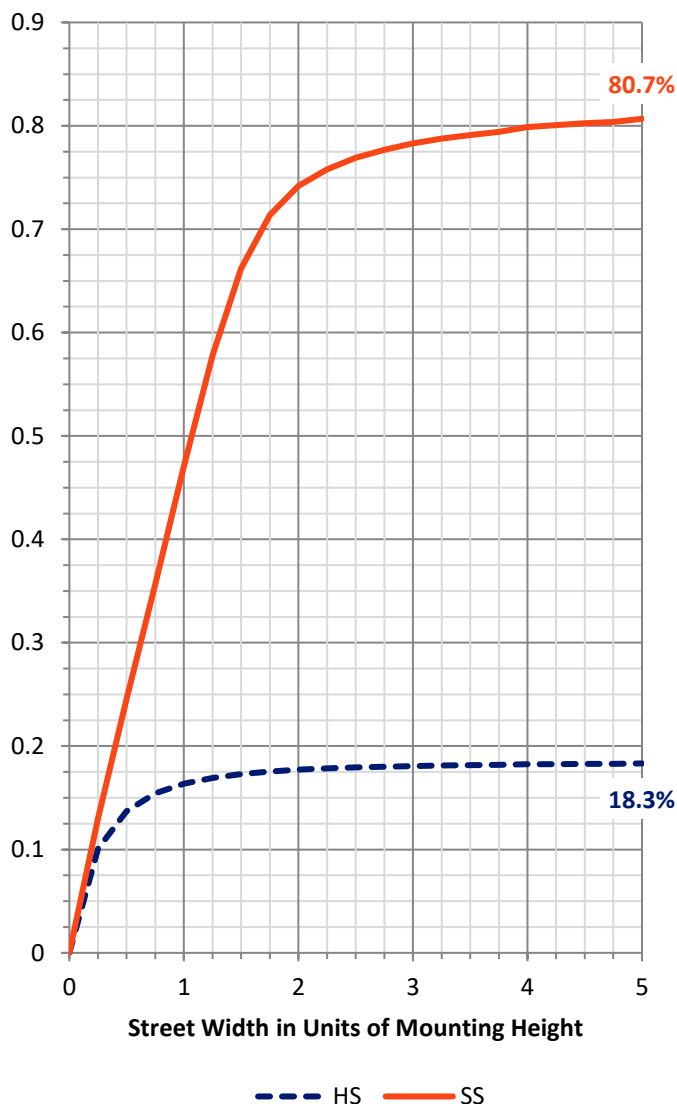
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10694.1	0.0	10694.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	47009.7	0.0	47009.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	57703.8	0.0	57703.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1163.6	2.0
10°-20°	2790.7	4.8
20°-30°	3748.7	6.5
30°-40°	4931.3	8.5
40°-50°	7173.8	12.4
50°-60°	11206.2	19.4
60°-70°	14037.6	24.3
70°-80°	10707.5	18.6
80°-90°	1944.4	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°	57703.8	100.0
0°-180°	57703.8	100.0

Coefficient of Utilization

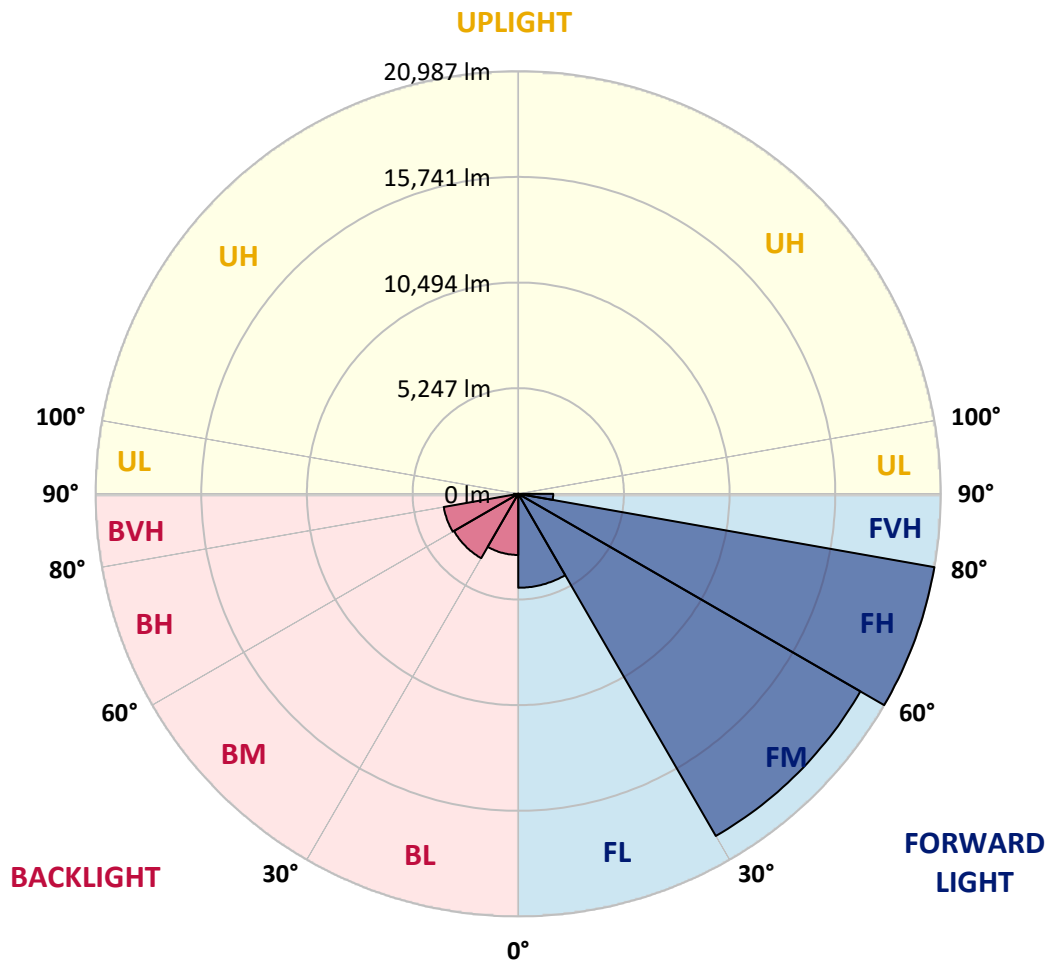


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4666.2	8.1			
FM (30°-60°)	19622.2	34.0			
FH (60°-80°)	20987.5	36.4			G5
FVH (80°-90°)	1733.9	3.0			G5
BL (0°-30°)	3036.8	5.3	B4/5000		
BM (30°-60°)	3689.1	6.4	B3/5000		
BH (60°-80°)	3757.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	210.5	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°	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8
2.5°	12973.8	12953.8	13013.6	13075.4	13099.3	13139.1	13198.9	13232.7	13230.8	13236.7	13216.8
5°	12113.1	12087.2	12206.7	12304.3	12491.7	12702.9	12959.8	13143.1	13147.1	13250.7	13278.6
7.5°	11298.3	11280.3	11417.8	11575.2	11792.4	12115.1	12531.5	12926.0	12949.8	13230.8	13328.4
10°	10644.8	10640.8	10774.3	10945.6	11198.6	11559.2	12037.4	12615.1	12651.0	13135.1	13336.4
12.5°	10134.8	10142.7	10258.3	10453.5	10720.5	11097.1	11615.0	12266.5	12324.3	12983.7	13290.6
15°	9758.2	9790.1	9883.7	10080.9	10343.9	10726.5	11258.4	11943.7	12031.4	12814.4	13264.7
17.5°	9543.1	9578.9	9644.7	9808.0	10055.0	10423.6	10927.7	11678.8	11758.5	12684.9	13266.6
20°	9479.3	9509.1	9547.1	9646.6	9855.9	10190.6	10666.7	11439.7	11525.4	12581.3	13286.6
22.5°	9604.8	9626.7	9630.7	9622.7	9750.2	10023.2	10477.4	11264.4	11356.0	12513.6	13300.5
25°	9873.8	9903.7	9881.8	9808.0	9766.2	9933.6	10379.8	11148.9	11240.5	12463.7	13272.6
27.5°	10278.2	10282.2	10264.3	10168.6	9971.4	9943.5	10350.0	11081.1	11168.8	12406.0	13214.8
30°	10828.0	10854.0	10822.1	10692.6	10369.9	10102.9	10385.8	11015.4	11095.0	12332.3	13121.2
32.5°	11471.5	11535.4	11533.3	11397.9	10935.6	10459.5	10533.2	10975.5	11037.3	12254.5	13007.7
35°	12139.0	12226.7	12390.0	12332.3	11760.5	11023.3	10816.1	11039.3	11081.1	12244.6	12927.9
37.5°	12832.3	12920.0	13256.7	13412.0	12742.6	11830.2	11262.4	11264.4	11284.3	12366.1	12922.0
40°	13557.5	13651.2	14157.2	14561.6	14015.7	12852.3	11981.6	11734.6	11712.6	12664.9	13039.5
42.5°	14573.6	14657.2	15264.9	15780.9	15428.3	14161.2	12975.8	12459.7	12413.9	13250.7	13416.1
45°	15858.6	15930.3	16575.9	17127.7	16946.3	15655.4	14224.9	13457.9	13450.0	14226.9	14179.1
47.5°	17386.7	17442.5	18022.2	18556.1	18621.9	17374.8	15794.9	14997.9	14868.4	15565.7	15360.6
50°	18978.5	19040.3	19434.8	20008.5	20496.7	19675.8	17815.0	16884.7	16711.3	17332.9	17034.1
52.5°	20032.5	20114.2	20456.8	21184.0	22604.5	22198.0	20203.8	19171.8	18908.8	19474.6	19245.5
55°	19562.2	19745.5	20269.5	21435.0	24289.9	26051.1	23150.4	21839.5	21542.6	22012.7	21877.3
57.5°	17424.5	17675.6	18390.8	20189.8	24527.0	29446.0	27605.1	24981.3	24772.1	24636.6	24698.4
60°	13517.7	13758.8	14645.3	16990.2	22875.5	31924.4	34309.2	28854.3	28551.5	27270.4	27326.2
62.5°	9567.0	9445.4	10053.1	11768.4	18588.0	32215.2	41937.6	34034.2	33038.1	30051.6	29806.6
65°	7295.8	7267.8	7540.8	8086.7	11258.4	28734.7	46482.0	42740.5	41184.6	33322.9	32745.2
67.5°	5994.8	5945.0	6214.0	7008.9	7250.0	18538.3	46581.7	52841.4	51313.4	37395.2	36144.0
70°	4928.9	4873.1	5124.2	6150.2	6700.1	9401.6	39204.2	58756.5	58674.8	42551.2	38710.1
71°	4418.9	4379.0	4679.9	5819.5	6582.5	7835.6	33848.9	58772.5	59017.5	44296.5	38558.7
72.5°	3598.1	3612.0	3930.8	5180.0	6494.8	6919.3	24877.7	56033.1	56551.1	45960.0	37182.1
75°	2390.7	2402.7	2821.1	3984.6	6297.6	6769.7	13673.1	47018.0	47970.2	44963.9	33928.6
77.5°	1605.8	1601.8	1886.7	2733.4	5486.7	6769.7	8017.0	35165.8	36211.8	35777.5	26156.7
80°	1105.7	1097.7	1298.9	1886.7	4154.0	6851.4	6198.0	24644.6	24961.4	19321.2	10630.8
82.5°	677.4	683.4	848.7	1332.9	2827.1	6166.1	5851.3	13437.9	13093.3	5419.0	2655.7
85°	388.5	386.5	541.9	902.5	1814.9	5203.8	5705.9	5783.6	5305.4	1631.7	960.2
87.5°	139.5	149.4	290.8	500.1	1040.0	3624.0	4841.3	3008.3	2711.5	737.1	434.3
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°	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8	13218.8
2.5°	13202.9	13214.8	13200.9	13121.2	13053.5	12943.9	12882.1	12796.5	12770.6	12758.6	12790.5
5°	13252.7	13256.7	13139.1	12930.0	12694.9	12417.9	12218.7	11973.6	11858.0	11808.3	11840.2
7.5°	13298.5	13280.6	13023.6	12623.1	12188.8	11706.7	11278.3	10885.9	10656.7	10563.1	10571.1
10°	13304.5	13228.8	12816.4	12196.8	11523.4	10816.1	10158.7	9553.0	9170.5	8921.4	8997.2
12.5°	13242.7	13115.3	12511.5	11644.9	10710.6	9746.2	8857.7	7949.3	7403.4	7150.3	7158.3
15°	13194.9	12963.8	12137.0	10995.4	9740.3	8463.2	7250.0	6182.0	5600.3	5341.3	5219.8
17.5°	13155.0	12800.4	11702.7	10264.3	8594.7	6975.0	5516.6	4564.3	4245.5	4169.9	4137.9
20°	13099.3	12627.1	11218.5	9417.6	7289.7	5309.4	4028.4	3558.2	3560.2	3647.8	3659.9
22.5°	13021.5	12429.9	10702.6	8467.2	5889.2	3867.0	3157.8	3022.3	3159.8	3327.1	3357.0
25°	12906.0	12196.8	10128.8	7417.3	4490.6	2972.5	2697.6	2691.6	2858.9	3034.2	3060.1
27.5°	12742.6	11892.0	9491.3	6289.6	3309.2	2526.3	2416.6	2458.4	2582.0	2709.5	2719.5
30°	12523.5	11537.3	8787.9	5100.2	2594.0	2249.3	2237.3	2275.2	2350.9	2440.6	2448.5
32.5°	12282.5	11176.7	8036.9	3948.7	2221.4	2099.9	2111.8	2129.8	2165.6	2201.4	2209.4
35°	12063.3	10808.2	7267.8	3000.4	2044.1	2002.3	1994.3	1990.3	1994.3	1982.3	1984.3
37.5°	11921.9	10503.3	6467.0	2388.8	1942.5	1916.6	1892.7	1862.8	1828.9	1809.0	1813.0
40°	11870.1	10276.2	5656.1	2064.0	1858.8	1840.8	1795.1	1731.3	1691.4	1679.5	1679.5
42.5°	12009.5	10158.7	4873.1	1900.6	1789.0	1759.2	1683.5	1609.8	1579.9	1577.9	1575.9
45°	12435.9	10206.5	4128.1	1811.0	1725.3	1667.6	1567.9	1506.1	1486.3	1490.2	1488.2
47.5°	13200.9	10507.3	3490.5	1751.2	1661.6	1585.9	1474.3	1424.5	1400.6	1400.6	1402.5
50°	14501.9	11210.6	2982.4	1701.4	1607.8	1510.1	1406.5	1344.8	1312.9	1311.0	1311.0
52.5°	16396.5	12469.7	2665.7	1659.6	1548.0	1442.4	1338.8	1261.1	1223.3	1215.3	1211.3
55°	18771.3	14274.8	2578.1	1631.7	1468.3	1368.7	1257.1	1179.4	1137.6	1119.6	1117.7
57.5°	21427.1	16470.2	2751.3	1597.8	1386.6	1281.1	1167.5	1093.7	1049.9	1028.1	1026.0
60°	24114.6	18866.9	3458.6	1550.0	1318.9	1185.4	1075.8	1008.1	964.2	940.4	936.4
62.5°	26806.2	21393.2	4903.0	1546.0	1271.1	1093.7	982.2	924.4	882.5	856.7	850.7
65°	29842.5	24158.5	6544.7	1651.6	1255.2	1010.1	886.6	840.7	804.9	781.0	779.0
67.5°	33329.0	27280.4	6387.2	1868.8	1308.9	934.3	796.9	761.1	735.2	715.2	713.2
70°	34964.6	26792.2	3970.6	2022.2	1384.7	860.7	711.2	685.3	665.4	651.4	645.5
71°	34279.3	25439.5	3329.1	2004.2	1376.6	828.8	677.4	657.5	637.6	625.5	619.6
72.5°	32410.5	23200.2	2777.2	1864.8	1287.0	771.0	633.5	613.6	595.7	581.8	577.7
75°	29083.4	20719.8	2223.4	1490.2	1026.0	651.4	555.9	534.0	520.0	512.0	504.1
77.5°	21379.2	14786.7	1719.4	1177.5	755.1	531.9	474.2	458.2	444.3	432.3	426.4
80°	8190.3	5727.8	1157.5	878.6	553.9	420.4	382.5	374.6	360.6	352.6	352.6
82.5°	2205.4	1711.3	617.6	531.9	370.6	306.9	292.9	288.9	276.9	261.0	263.0
85°	892.5	755.1	346.6	292.9	227.1	181.3	197.2	199.3	185.3	165.3	167.3
87.5°	392.5	320.7	193.3	129.5	99.6	69.8	89.6	89.6	81.7	67.7	61.8
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)