

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: P382691

Luminaire Tested: **GLEON-SA0D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71547.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

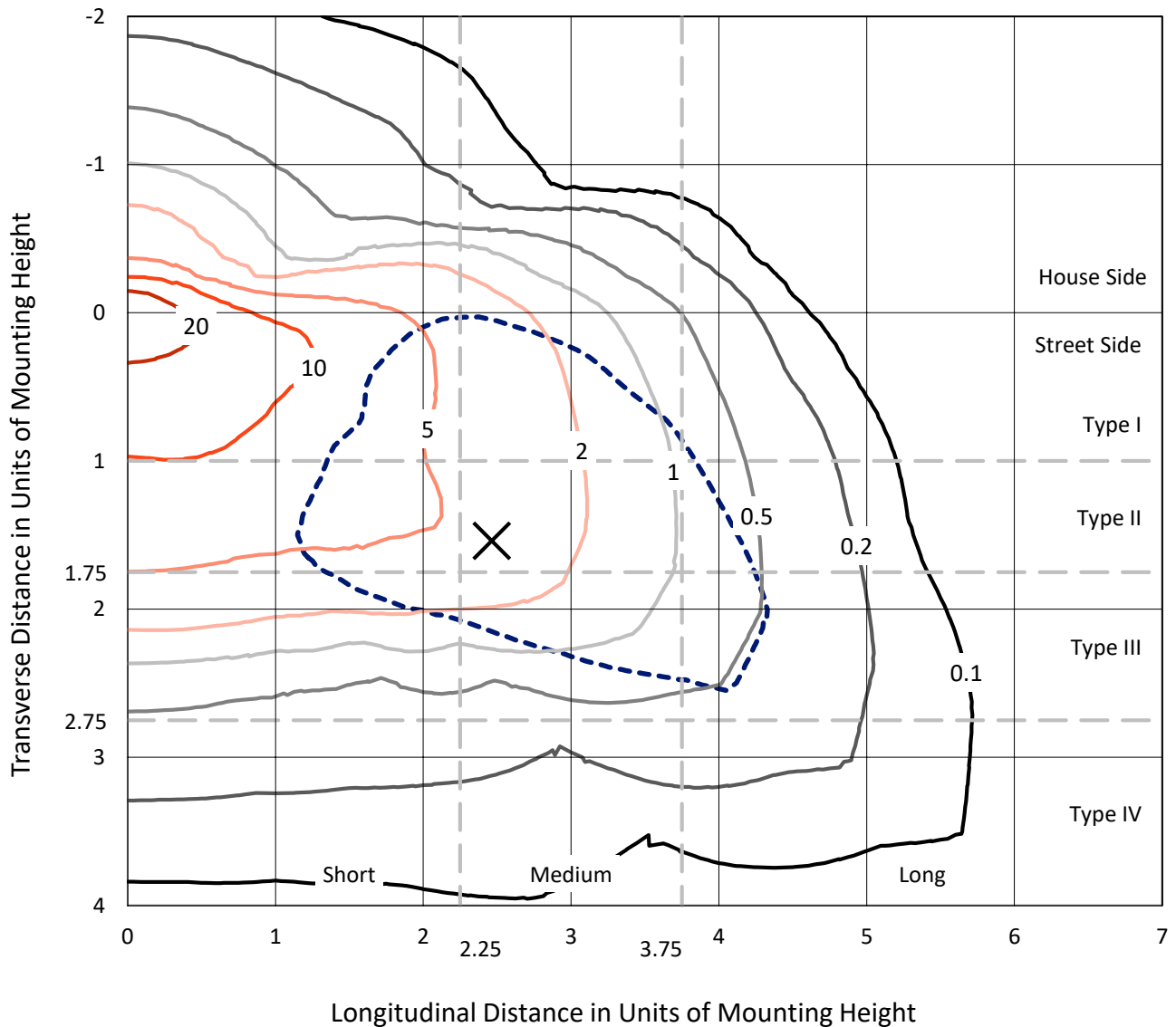
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

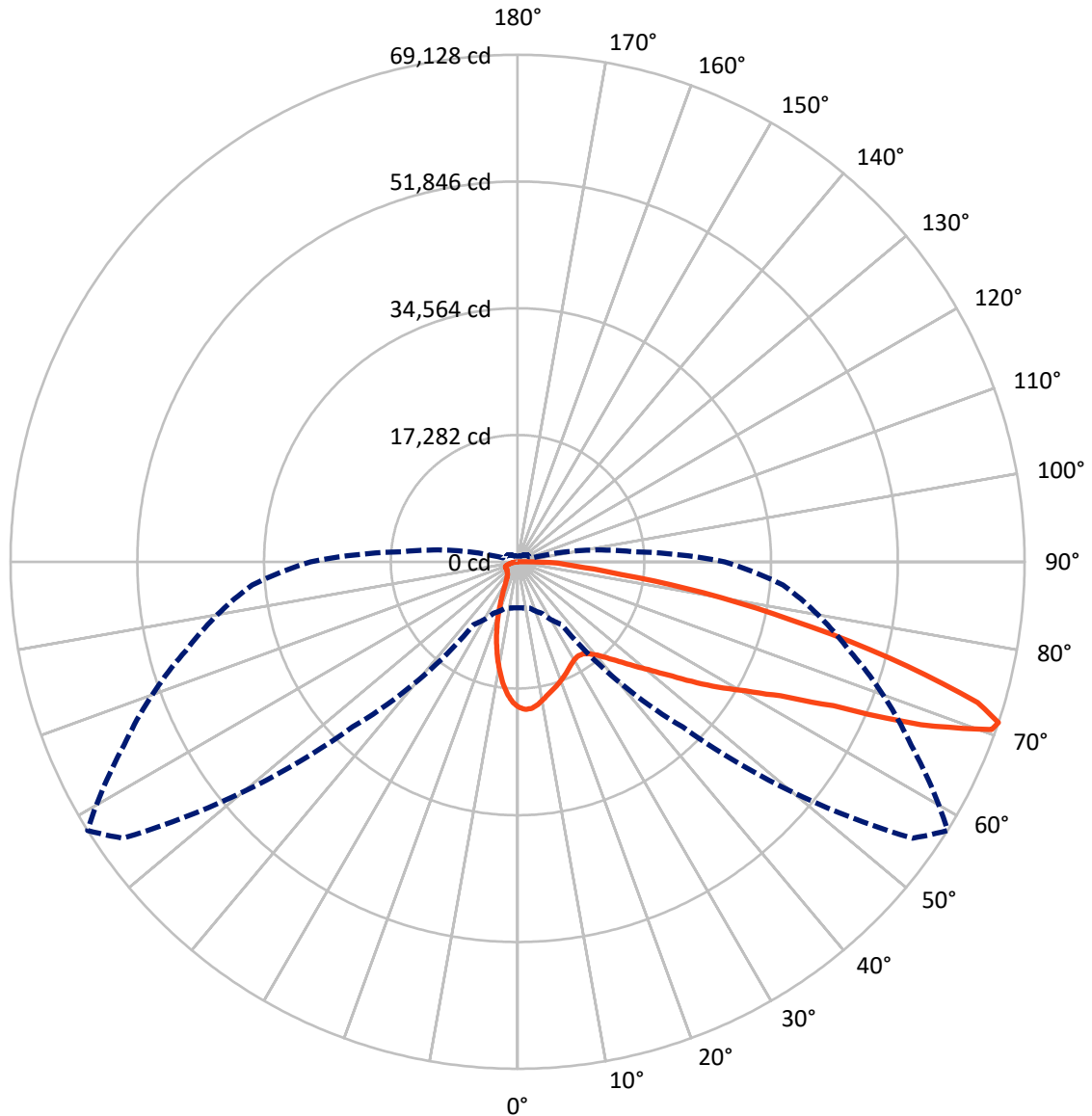
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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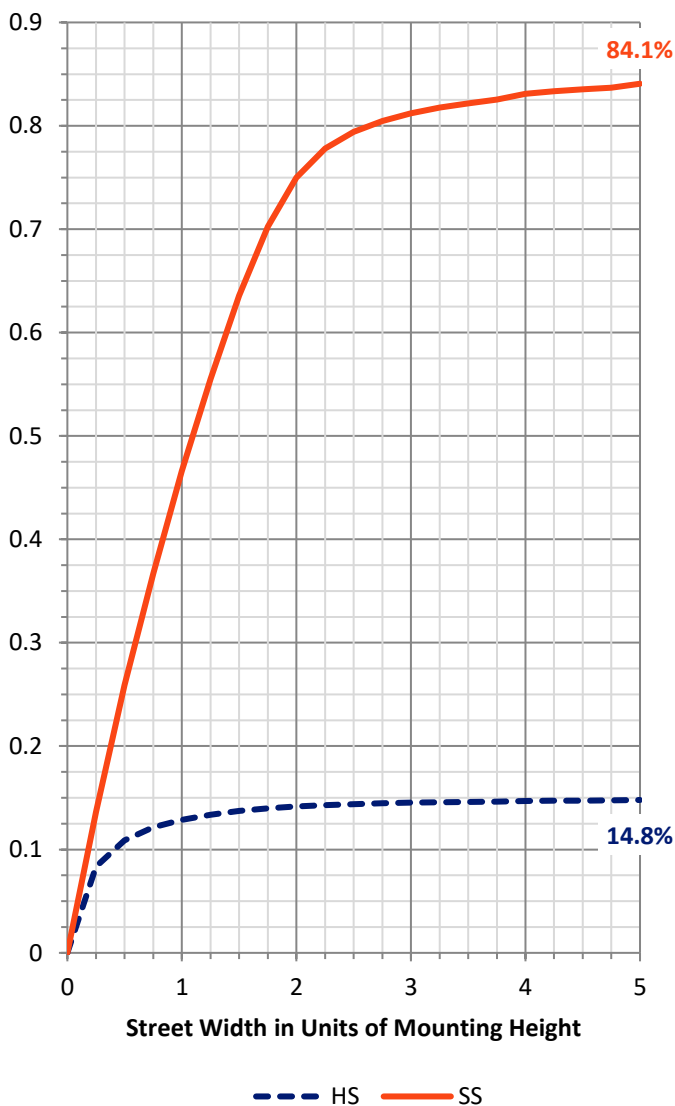
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10696.9	0.0	10696.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	60850.7	0.0	60850.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	71547.5	0.0	71547.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1710.2	2.4
10°-20°	3802.8	5.3
20°-30°	4832.9	6.8
30°-40°	6156.2	8.6
40°-50°	8729.8	12.2
50°-60°	13509.6	18.9
60°-70°	18391.7	25.7
70°-80°	12269.4	17.1
80°-90°	2145.1	3.0
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°	71547.5	100.0
0°-180°	71547.5	100.0

Coefficient of Utilization

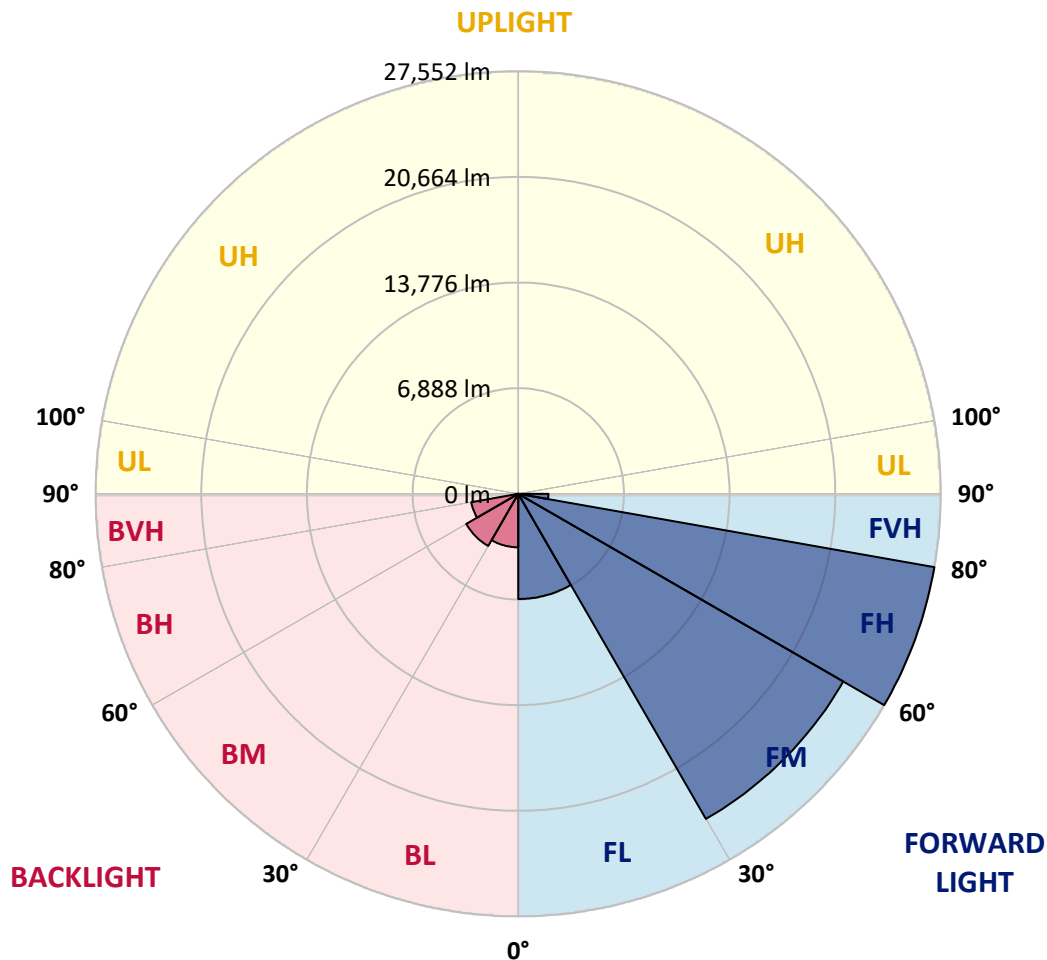


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6859.0	9.6			
FM (30°-60°)	24472.7	34.2			
FH (60°-80°)	27552.1	38.5			G5
FVH (80°-90°)	1966.9	2.7			G5
BL (0°-30°)	3486.9	4.9	B4/5000		
BM (30°-60°)	3922.8	5.5	B3/5000		
BH (60°-80°)	3108.9	4.3	B4/5000		G4/5000
BVH (80°-90°)	178.2	0.2			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°	58°	65°	75°	85°
0°	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4
2.5°	20349.3	20321.9	20331.9	20311.9	20264.6	20217.2	20147.4	20159.9	20062.7	19918.2	19738.7
5°	19965.5	19955.5	20030.3	20072.7	20107.5	20080.2	20060.2	20085.1	19943.0	19743.7	19432.2
7.5°	19160.5	19050.8	19145.5	19287.6	19422.2	19524.4	19658.9	19676.4	19586.7	19377.3	18968.6
10°	18016.6	17911.9	18051.4	18273.2	18542.5	18786.7	19058.3	19108.2	19125.6	18936.2	18440.3
12.5°	16830.3	16750.5	16890.1	17201.6	17647.7	18024.0	18457.7	18532.5	18686.9	18559.9	17951.8
15°	15768.5	15738.6	15908.1	16214.6	16728.1	17303.8	17929.3	18066.4	18328.1	18285.7	17570.5
17.5°	14851.4	14843.9	14973.5	15295.0	15863.2	16591.0	17403.5	17635.2	18024.0	18073.9	17256.5
20°	14168.5	14153.6	14243.3	14480.1	15065.7	15890.6	16835.2	17154.3	17715.0	17889.4	16932.5
22.5°	13802.2	13799.7	13802.2	13914.2	14392.8	15160.4	16282.0	16670.7	17413.4	17742.4	16573.5
25°	13739.9	13732.3	13677.5	13665.1	13936.7	14549.8	15733.7	16162.4	17126.8	17640.3	16232.1
27.5°	13901.9	13911.8	13839.5	13722.3	13777.2	14148.5	15257.6	15716.2	16897.5	17620.3	15995.3
30°	14238.3	14233.3	14171.0	14048.9	13941.7	13999.0	14918.6	15377.2	16743.0	17707.5	15833.3
32.5°	14609.6	14637.0	14624.6	14557.3	14397.8	14168.5	14816.5	15265.1	16698.2	17916.8	15763.6
35°	15055.8	15085.7	15175.4	15227.7	15040.8	14672.0	15035.8	15424.6	16827.8	18310.7	15875.7
37.5°	15479.4	15556.7	15808.5	16030.3	15870.7	15459.5	15619.0	15895.6	17229.0	18931.2	16177.3
40°	15967.9	16035.2	16446.5	16917.5	16892.6	16466.4	16558.5	16743.0	17936.8	19820.9	16723.0
42.5°	16448.9	16583.5	17179.1	17847.1	18039.0	17662.6	17809.7	17906.9	18933.7	20999.8	17675.1
45°	17089.4	17234.0	18061.4	18866.4	19315.0	19103.2	19337.4	19374.8	20187.3	22604.8	19058.3
47.5°	18058.9	18223.4	19187.9	20032.8	20718.2	20740.6	21126.9	21111.9	21752.5	24441.6	20800.4
50°	19569.2	19806.0	20596.1	21386.1	22218.5	22682.1	23198.0	23125.7	23629.2	26398.0	22806.7
52.5°	21548.1	21657.7	22243.4	22826.6	23860.9	24900.2	25640.4	25575.5	25757.5	28409.3	25084.6
55°	23599.2	23681.4	23923.2	24242.2	25632.9	27327.6	28892.8	28790.6	28329.6	30497.8	27335.1
57.5°	25443.5	25610.5	25777.4	25909.5	27417.4	29864.8	32220.0	32227.4	31120.9	32750.8	29660.4
60°	25730.1	25877.2	26981.3	28023.0	30470.4	33249.3	35781.4	35706.6	34009.4	35195.7	32252.3
62.5°	22744.4	23075.8	24920.1	27691.6	33411.3	39440.0	40324.7	40232.6	37463.7	38208.8	35270.4
65°	16299.4	16675.7	18901.3	23065.9	31985.7	46261.3	48524.3	47283.2	42174.0	41914.9	38804.5
67.5°	9403.3	9493.0	10457.6	13802.2	24354.4	46617.7	61032.9	59295.9	49488.8	46119.2	40534.2
70°	6953.4	6950.9	7180.2	8493.7	13179.1	38046.8	66982.0	68539.6	57189.9	47502.5	38089.2
71°	6287.9	6295.5	6552.1	7731.0	10437.6	31846.1	65718.4	69127.8	59218.6	46819.6	36319.7
72.5°	5378.3	5403.3	5759.6	6933.5	8780.2	21961.8	60275.3	65598.8	60180.6	45134.9	33550.8
75°	4079.8	4137.2	4630.6	5844.3	8025.1	11138.0	44237.6	52382.3	53461.5	39826.4	24930.1
77.5°	2911.0	2975.7	3534.0	4914.8	7628.8	8393.9	29625.5	38208.8	39342.8	25523.3	11245.1
80°	1839.2	1916.6	2337.7	3910.4	7167.7	7970.2	18617.2	25682.8	21453.4	8167.2	2861.2
82.5°	1079.1	1139.0	1450.5	2554.6	5854.3	7676.1	10953.5	14235.8	8349.1	2467.3	1301.0
85°	625.5	653.0	904.7	1627.4	4251.8	7245.0	8047.5	7957.7	3623.7	1206.3	615.6
87.5°	291.6	324.0	535.8	849.9	2360.2	5251.2	6360.2	5495.5	2253.0	565.7	289.1
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°	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4	19823.4
2.5°	19651.5	19609.1	19432.2	19275.1	19110.7	18896.3	18659.6	18629.6	18485.1	18512.6	18462.7
5°	19262.7	19155.5	18729.3	18343.0	17886.9	17478.3	17034.6	16830.3	16536.2	16516.2	16441.4
7.5°	18706.9	18507.5	17847.1	17114.4	16381.6	15683.8	14993.4	14539.9	14076.3	13879.4	13862.0
10°	18081.3	17742.4	16770.5	15686.3	14629.6	13610.3	12623.3	11893.1	11235.1	10923.6	10911.1
12.5°	17488.2	16987.2	15653.9	14178.4	12733.0	11412.0	10058.8	9099.3	8274.3	7997.7	7880.5
15°	16984.7	16279.4	14567.3	12680.6	10926.0	9091.8	7551.6	6542.2	5779.5	5515.4	5465.5
17.5°	16496.3	15589.1	13453.2	11167.9	9046.9	7030.7	5487.9	4737.8	4331.5	4224.4	4221.9
20°	16010.3	14878.8	12289.3	9620.1	7230.0	5258.7	4219.4	3883.0	3745.8	3733.4	3713.4
22.5°	15459.5	14126.2	11065.7	8067.5	5642.5	4134.7	3586.4	3451.8	3434.3	3479.2	3479.2
25°	14943.6	13378.4	9824.5	6547.2	4388.9	3449.3	3202.6	3175.2	3222.5	3302.2	3309.7
27.5°	14462.6	12658.1	8613.3	5196.4	3516.6	3038.1	2935.9	2968.3	3053.1	3145.3	3147.7
30°	14066.3	11977.8	7436.9	4094.8	2970.8	2731.5	2714.1	2778.9	2871.1	2943.3	2960.8
32.5°	13759.8	11397.1	6300.4	3292.3	2614.4	2502.2	2517.2	2572.0	2629.3	2669.3	2696.6
35°	13617.7	10898.6	5251.2	2776.4	2387.6	2325.2	2345.2	2375.2	2400.0	2429.9	2452.4
37.5°	13642.6	10512.3	4314.1	2454.9	2235.5	2203.2	2203.2	2203.2	2203.2	2218.1	2220.6
40°	13874.4	10290.5	3551.4	2250.5	2133.3	2098.5	2071.1	2046.1	2026.2	2036.2	2031.1
42.5°	14467.6	10270.6	2993.2	2120.9	2051.2	1993.8	1939.0	1904.1	1879.2	1889.2	1894.1
45°	15474.4	10519.9	2616.9	2028.7	1973.9	1886.7	1816.9	1779.4	1762.0	1794.4	1799.4
47.5°	16777.9	11063.2	2387.6	1961.4	1901.6	1787.0	1712.2	1677.3	1682.3	1729.6	1742.1
50°	18457.7	11945.4	2277.9	1919.1	1851.7	1702.2	1625.0	1595.1	1610.0	1677.3	1692.2
52.5°	20302.0	13216.4	2290.4	1906.6	1819.3	1639.9	1557.6	1522.8	1547.7	1610.0	1622.5
55°	22430.4	14744.3	2497.2	1924.0	1772.0	1600.0	1502.9	1443.1	1463.0	1520.3	1530.3
57.5°	24795.5	16493.8	2913.4	1919.1	1712.2	1562.7	1445.5	1355.8	1370.8	1405.6	1415.6
60°	27257.8	18607.2	3559.0	1934.0	1684.8	1517.8	1368.3	1256.1	1251.2	1281.1	1286.0
62.5°	30213.7	21052.1	4296.7	1944.0	1702.2	1460.5	1266.1	1156.4	1141.4	1149.0	1153.9
65°	33259.2	22821.6	4020.0	1904.1	1757.1	1413.2	1176.4	1059.2	1031.8	1026.8	1029.3
67.5°	33354.0	20925.0	2818.8	1824.3	1779.4	1388.2	1109.1	977.0	932.1	914.7	912.2
70°	29912.1	16999.7	2195.7	1739.6	1689.7	1348.3	1046.8	909.7	842.4	815.0	812.5
71°	28232.3	15648.9	2081.1	1697.2	1622.5	1308.5	1019.3	879.8	810.0	780.1	775.0
72.5°	25598.0	14028.9	1941.4	1629.9	1492.9	1206.3	967.0	837.4	765.1	730.2	722.8
75°	18370.5	9174.0	1667.3	1453.0	1236.2	962.0	847.3	752.7	690.4	648.0	643.0
77.5°	7078.0	3651.2	1261.1	1208.8	947.1	752.7	697.8	650.5	605.6	563.2	560.8
80°	2188.2	1632.4	919.6	909.7	685.3	560.8	543.3	530.9	513.4	468.6	458.6
82.5°	1168.9	937.0	633.1	588.2	448.6	373.8	393.8	398.8	401.2	353.9	349.0
85°	558.3	496.0	356.4	334.0	261.7	209.3	241.7	261.7	264.2	216.9	201.9
87.5°	266.7	259.2	167.0	127.1	97.2	69.8	84.8	104.7	114.7	82.3	72.3
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)