

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: P382663

Luminaire Tested: **GLEON-SA0C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382663
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-SA0C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA 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: 65221.4 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

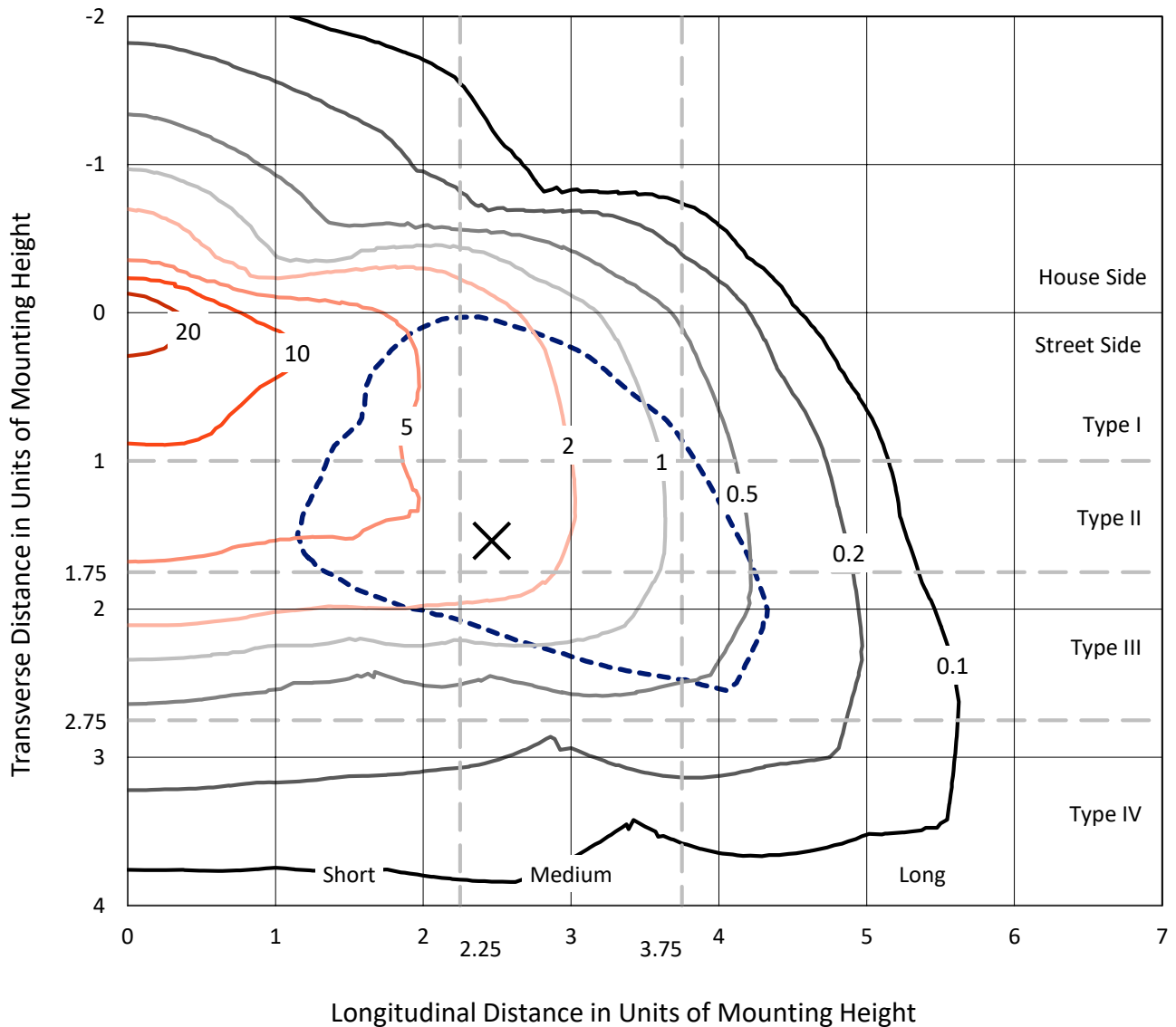
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

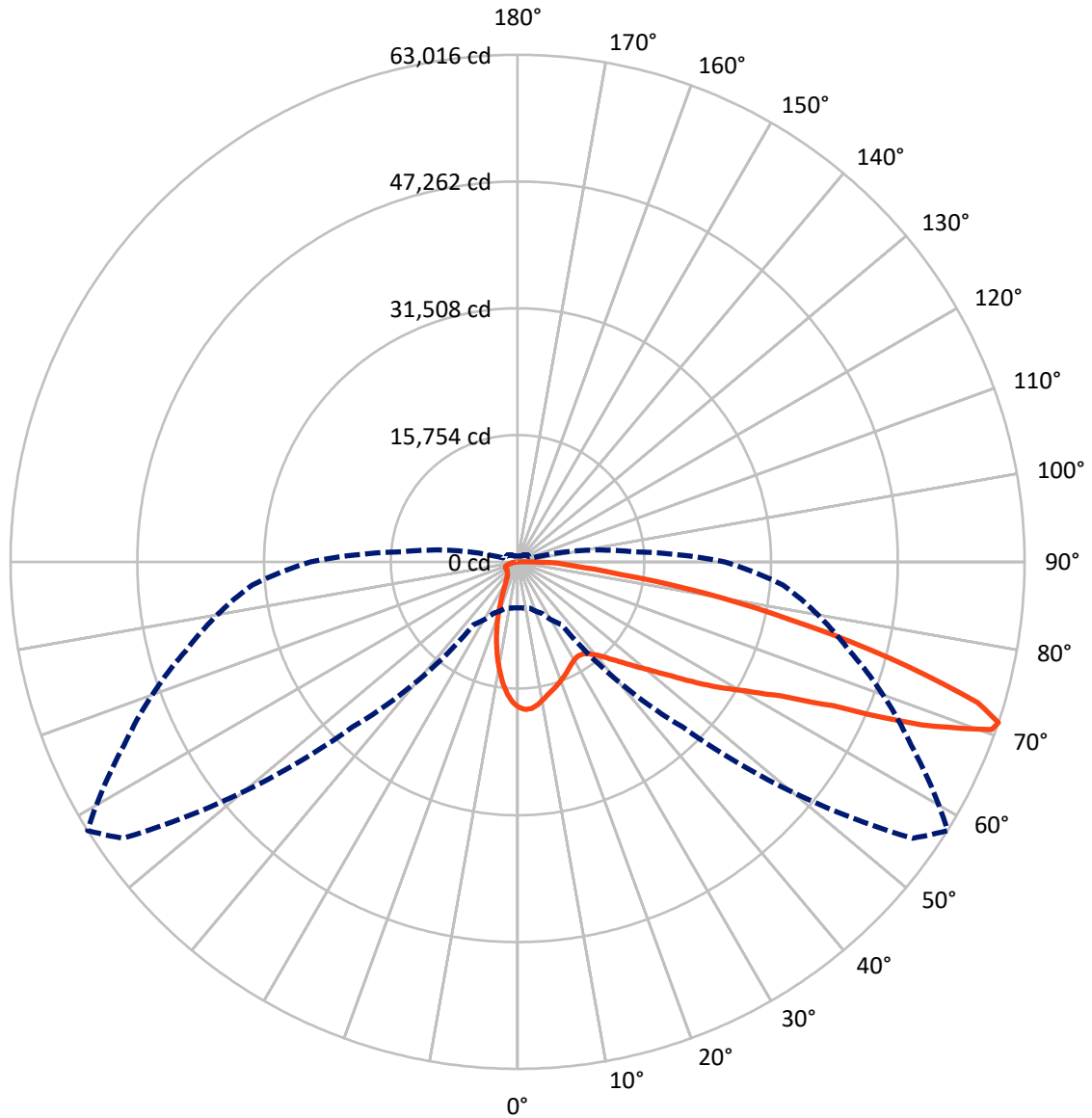
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 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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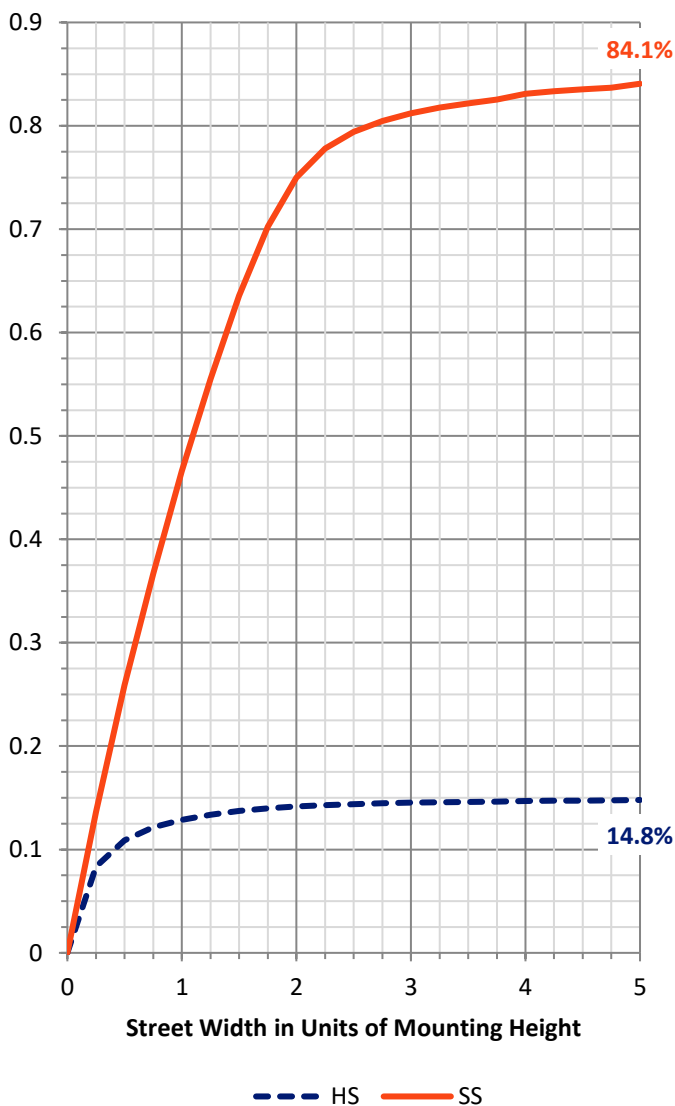
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9751.0	0.0	9751.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	55470.3	0.0	55470.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	65221.4	0.0	65221.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1559.0	2.4
10°-20°	3466.5	5.3
20°-30°	4405.6	6.8
30°-40°	5611.8	8.6
40°-50°	7957.9	12.2
50°-60°	12315.1	18.9
60°-70°	16765.5	25.7
70°-80°	11184.5	17.1
80°-90°	1955.4	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°	65221.4	100.0
0°-180°	65221.4	100.0

Coefficient of Utilization

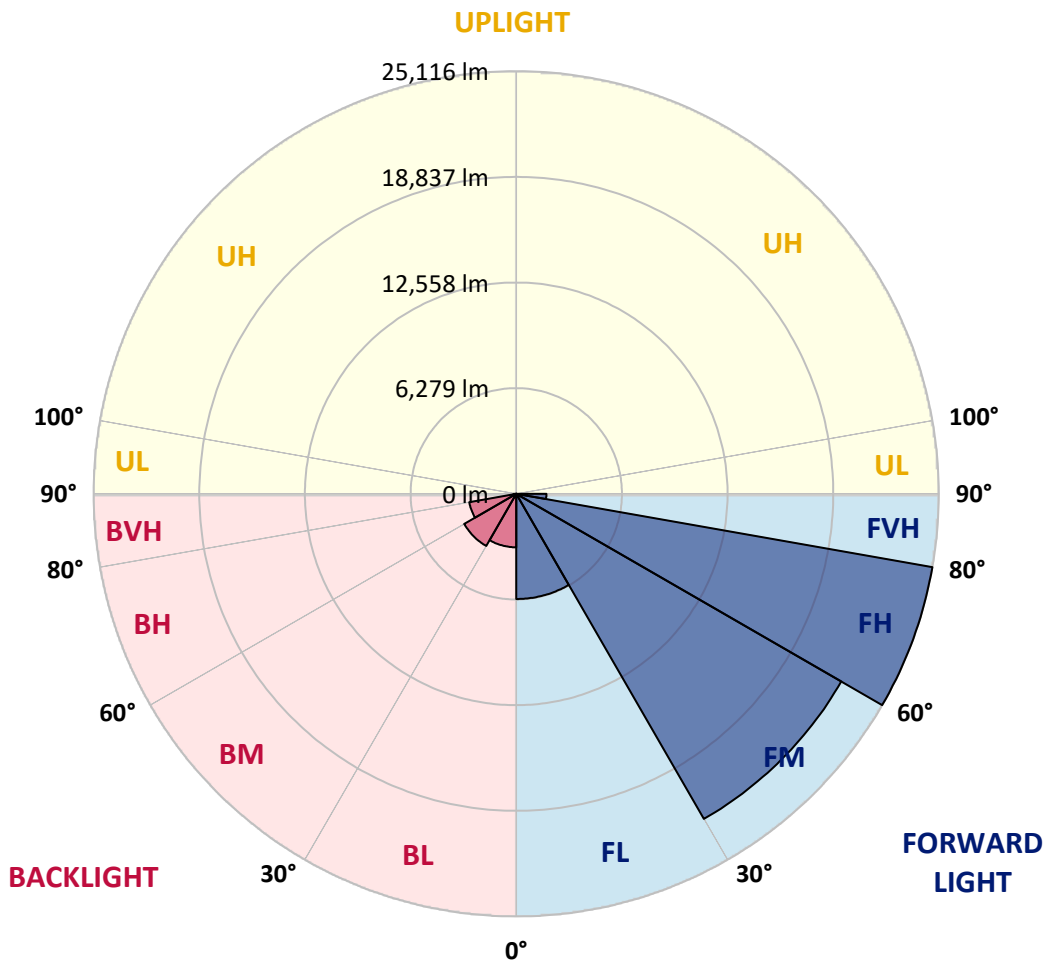


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6252.5	9.6			
FM (30°-60°)	22308.9	34.2			
FH (60°-80°)	25116.0	38.5			G5
FVH (80°-90°)	1793.0	2.7			G5
BL (0°-30°)	3178.5	4.9	B4/5000		
BM (30°-60°)	3576.0	5.5	B3/5000		
BH (60°-80°)	2834.0	4.3	B4/5000		G4/5000
BVH (80°-90°)	162.5	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°	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7
2.5°	18550.1	18525.0	18534.2	18516.0	18472.8	18429.6	18366.0	18377.4	18288.8	18157.0	17993.4
5°	18200.2	18191.1	18259.3	18297.8	18329.7	18304.7	18286.5	18309.2	18179.7	17998.0	17714.0
7.5°	17466.3	17366.4	17452.7	17582.2	17704.9	17798.1	17920.7	17936.7	17854.9	17664.0	17291.4
10°	16423.6	16328.2	16455.3	16657.6	16902.9	17125.6	17373.2	17418.6	17434.6	17261.9	16809.8
12.5°	15342.1	15269.5	15396.6	15680.6	16087.3	16430.4	16825.7	16893.8	17034.7	16918.9	16364.5
15°	14374.3	14347.0	14501.5	14781.0	15249.0	15773.8	16344.0	16469.0	16707.6	16668.9	16016.8
17.5°	13538.3	13531.4	13649.6	13942.7	14460.6	15124.0	15864.6	16076.0	16430.4	16475.8	15730.6
20°	12915.7	12902.1	12983.9	13199.8	13733.6	14485.7	15346.7	15637.5	16148.7	16307.7	15435.3
22.5°	12581.8	12579.5	12581.8	12684.0	13120.2	13820.0	14842.3	15196.7	15873.8	16173.6	15108.1
25°	12524.9	12518.1	12468.2	12456.8	12704.4	13263.4	14342.5	14733.3	15612.5	16080.5	14796.9
27.5°	12672.7	12681.7	12615.9	12509.1	12559.0	12897.6	13908.6	14326.6	15403.5	16062.3	14581.0
30°	12979.3	12974.8	12918.1	12806.7	12709.0	12761.3	13599.6	14017.6	15262.6	16141.9	14433.4
32.5°	13317.9	13342.8	13331.5	13270.2	13124.8	12915.7	13506.4	13915.4	15221.7	16332.6	14369.8
35°	13724.6	13751.8	13833.6	13881.3	13710.9	13374.7	13706.3	14060.8	15339.9	16691.7	14472.0
37.5°	14110.8	14181.2	14410.7	14612.8	14467.5	14092.5	14238.0	14490.1	15705.6	17257.4	14746.9
40°	14556.1	14617.4	14992.2	15421.7	15398.9	15010.4	15094.5	15262.6	16350.9	18068.4	15244.4
42.5°	14994.6	15117.2	15660.2	16269.1	16444.0	16101.0	16235.0	16323.6	17259.6	19143.0	16112.3
45°	15578.4	15710.2	16464.5	17198.2	17607.2	17414.1	17627.7	17661.8	18402.4	20606.1	17373.2
47.5°	16462.2	16612.1	17491.4	18261.5	18886.3	18906.8	19258.9	19245.2	19829.1	22280.5	18961.3
50°	17839.0	18054.8	18775.0	19495.1	20254.0	20676.5	21146.9	21080.9	21539.9	24063.9	20790.2
52.5°	19642.8	19742.8	20276.7	20808.4	21751.2	22698.6	23373.3	23314.2	23480.0	25897.4	22866.7
55°	21512.6	21587.6	21808.0	22098.7	23366.5	24911.4	26338.1	26245.0	25824.6	27801.2	24918.2
57.5°	23193.8	23346.1	23498.3	23618.6	24993.1	27224.2	29371.1	29377.9	28369.2	29855.0	27037.9
60°	23455.1	23589.1	24595.6	25545.3	27776.2	30309.4	32617.7	32549.5	31002.4	32083.7	29400.7
62.5°	20733.4	21035.5	22716.7	25243.1	30457.0	35952.8	36759.3	36675.2	34151.2	34830.5	32151.9
65°	14858.2	15201.3	17230.1	21026.4	29157.5	42171.0	44233.9	43102.4	38445.1	38208.8	35373.5
67.5°	8571.9	8653.7	9532.9	12581.8	22201.0	42495.9	55636.5	54053.0	45113.1	42041.5	36950.1
70°	6338.6	6336.3	6545.3	7742.7	12013.8	34682.8	61059.5	62479.5	52133.2	43302.4	34721.4
71°	5732.0	5738.8	5972.8	7047.4	9514.7	29030.3	59907.7	63015.7	53982.6	42679.9	33108.4
72.5°	4902.7	4925.5	5250.4	6320.5	8003.9	20020.0	54945.8	59798.6	54859.5	41144.0	30584.3
75°	3719.1	3771.4	4221.2	5327.6	7315.5	10153.1	40326.2	47750.8	48734.5	36304.9	22725.8
77.5°	2653.6	2712.7	3221.6	4480.2	6954.3	7651.7	27006.0	34830.5	35864.2	23266.5	10250.8
80°	1676.7	1747.1	2131.0	3564.6	6534.0	7265.5	16971.1	23411.9	19556.5	7445.0	2608.1
82.5°	983.7	1038.3	1322.2	2328.7	5336.6	6997.4	9985.0	12977.1	7610.8	2249.2	1186.0
85°	570.2	595.3	824.7	1483.6	3875.9	6604.4	7335.9	7254.1	3303.4	1099.6	561.2
87.5°	265.8	295.3	488.5	774.7	2151.5	4786.9	5797.9	5009.5	2053.8	515.7	263.5
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°	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7	18070.7
2.5°	17913.9	17875.3	17714.0	17570.9	17420.9	17225.5	17009.7	16982.5	16850.7	16875.6	16830.3
5°	17559.5	17461.8	17073.3	16721.2	16305.4	15932.8	15528.4	15342.1	15074.0	15055.9	14987.7
7.5°	17052.9	16871.1	16269.1	15601.1	14933.2	14297.0	13667.8	13254.2	12831.7	12652.2	12636.3
10°	16482.6	16173.6	15287.6	14299.3	13336.0	12406.8	11507.1	10841.5	10241.7	9957.7	9946.4
12.5°	15941.9	15485.3	14269.8	12924.9	11607.1	10403.1	9169.4	8294.7	7542.7	7290.5	7183.7
15°	15483.0	14840.0	13279.2	11559.4	9960.0	8287.9	6883.9	5963.8	5268.6	5027.7	4982.3
17.5°	15037.7	14210.8	12263.7	10180.4	8247.0	6409.0	5002.7	4318.8	3948.6	3850.8	3848.6
20°	14594.6	13563.2	11202.7	8769.5	6590.8	4793.7	3846.4	3539.6	3414.7	3403.3	3385.2
22.5°	14092.5	12877.2	10087.3	7354.1	5143.5	3769.0	3269.3	3146.6	3130.7	3171.5	3171.5
25°	13622.3	12195.5	8955.8	5968.2	4000.8	3144.3	2919.4	2894.4	2937.5	3010.3	3017.1
27.5°	13183.8	11539.0	7851.6	4736.9	3205.6	2769.4	2676.3	2705.9	2783.1	2867.1	2869.4
30°	12822.6	10918.8	6779.3	3732.7	2708.1	2490.0	2474.1	2533.2	2617.2	2683.1	2699.0
32.5°	12543.2	10389.4	5743.4	3001.2	2383.2	2281.0	2294.6	2344.6	2396.9	2433.2	2458.2
35°	12413.6	9935.0	4786.9	2530.9	2176.5	2119.6	2137.9	2165.1	2187.8	2215.1	2235.5
37.5°	12436.3	9582.8	3932.6	2237.9	2037.9	2008.3	2008.3	2008.3	2008.3	2022.0	2024.3
40°	12647.6	9380.7	3237.5	2051.5	1944.7	1912.9	1888.0	1865.2	1847.1	1856.1	1851.6
42.5°	13188.4	9362.5	2728.6	1933.4	1869.8	1817.5	1767.5	1735.8	1713.0	1722.1	1726.6
45°	14106.2	9589.7	2385.5	1849.3	1799.4	1719.8	1656.2	1622.1	1606.3	1635.8	1640.3
47.5°	15294.4	10084.9	2176.5	1788.0	1733.4	1629.0	1560.8	1528.9	1533.5	1576.7	1588.1
50°	16825.7	10889.2	2076.5	1749.4	1688.1	1551.7	1481.3	1454.1	1467.7	1528.9	1542.6
52.5°	18506.9	12047.9	2087.9	1738.0	1658.5	1494.9	1420.0	1388.1	1410.8	1467.7	1479.0
55°	20447.1	13440.6	2276.4	1753.9	1615.3	1458.5	1369.9	1315.4	1333.6	1385.9	1394.9
57.5°	22603.2	15035.5	2655.8	1749.4	1560.8	1424.5	1317.7	1235.9	1249.6	1281.3	1290.5
60°	24847.7	16962.0	3244.3	1763.0	1535.8	1383.6	1247.2	1145.1	1140.5	1167.8	1172.3
62.5°	27542.2	19190.7	3916.8	1772.1	1551.7	1331.4	1154.1	1054.1	1040.5	1047.3	1051.9
65°	30318.5	20803.8	3664.6	1735.8	1601.7	1288.1	1072.3	965.5	940.6	936.0	938.3
67.5°	30404.8	19074.8	2569.5	1663.0	1622.1	1265.4	1011.0	890.6	849.7	833.8	831.5
70°	27267.3	15496.6	2001.5	1585.8	1540.3	1229.1	954.2	829.3	767.9	742.9	740.7
71°	25736.1	14265.3	1897.0	1547.2	1479.0	1192.8	929.2	802.0	738.3	711.1	706.6
72.5°	23334.7	12788.5	1769.8	1485.8	1360.9	1099.6	881.5	763.4	697.4	665.7	658.9
75°	16746.2	8362.9	1519.9	1324.5	1126.9	877.0	772.4	686.1	629.4	590.7	586.1
77.5°	6452.2	3328.3	1149.6	1101.8	863.4	686.1	636.2	592.9	552.0	513.5	511.1
80°	1994.7	1488.1	838.3	829.3	624.8	511.1	495.3	483.9	468.0	427.1	418.0
82.5°	1065.5	854.2	577.1	536.2	408.9	340.8	358.9	363.5	365.8	322.6	318.0
85°	508.9	452.1	324.9	304.4	238.6	190.9	220.4	238.6	240.8	197.7	184.0
87.5°	243.1	236.2	152.2	115.9	88.6	63.6	77.2	95.4	104.5	75.0	65.9
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)