

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: P647608

Luminaire Tested: **GALN-SA8D-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 47877.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

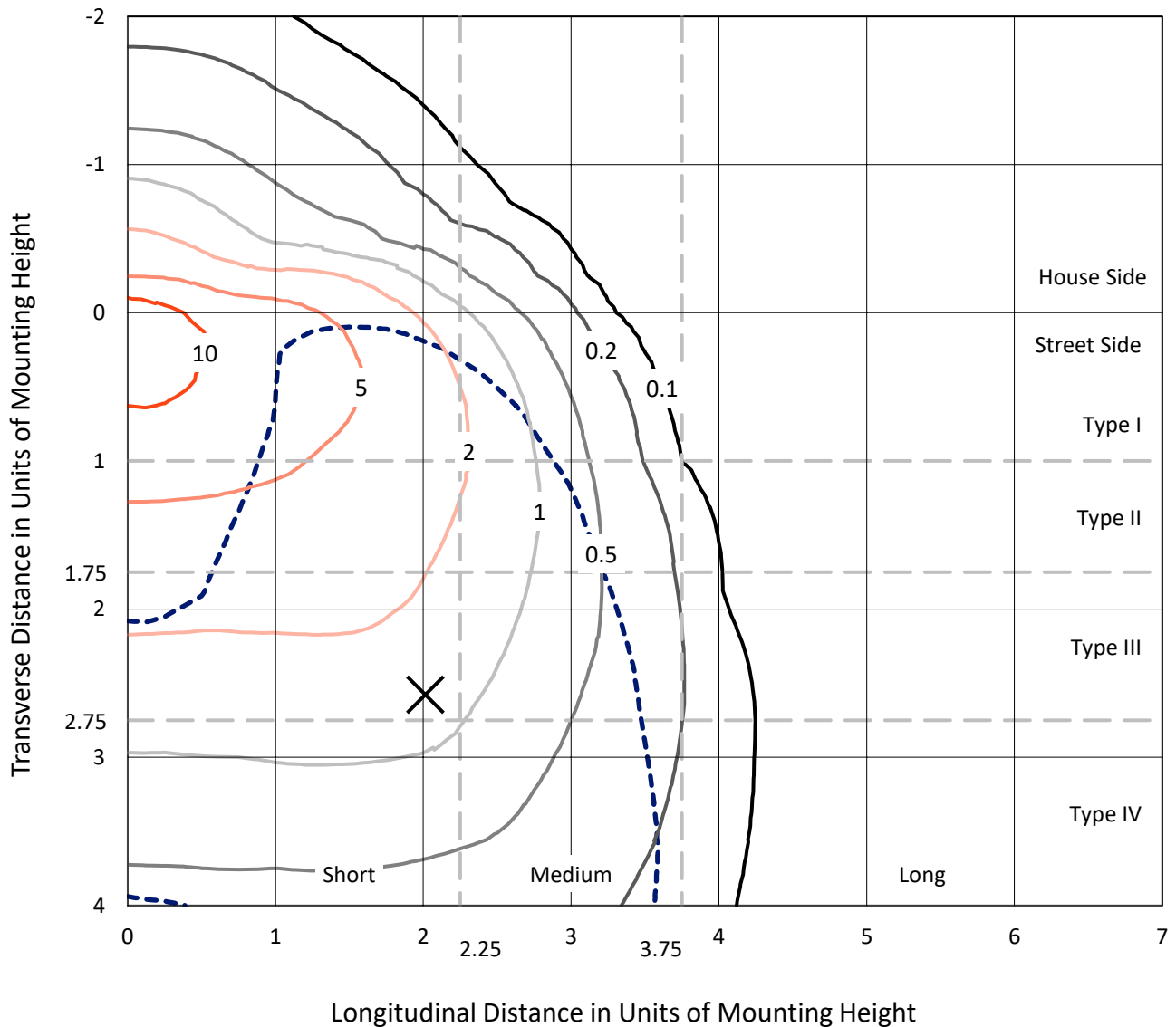
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

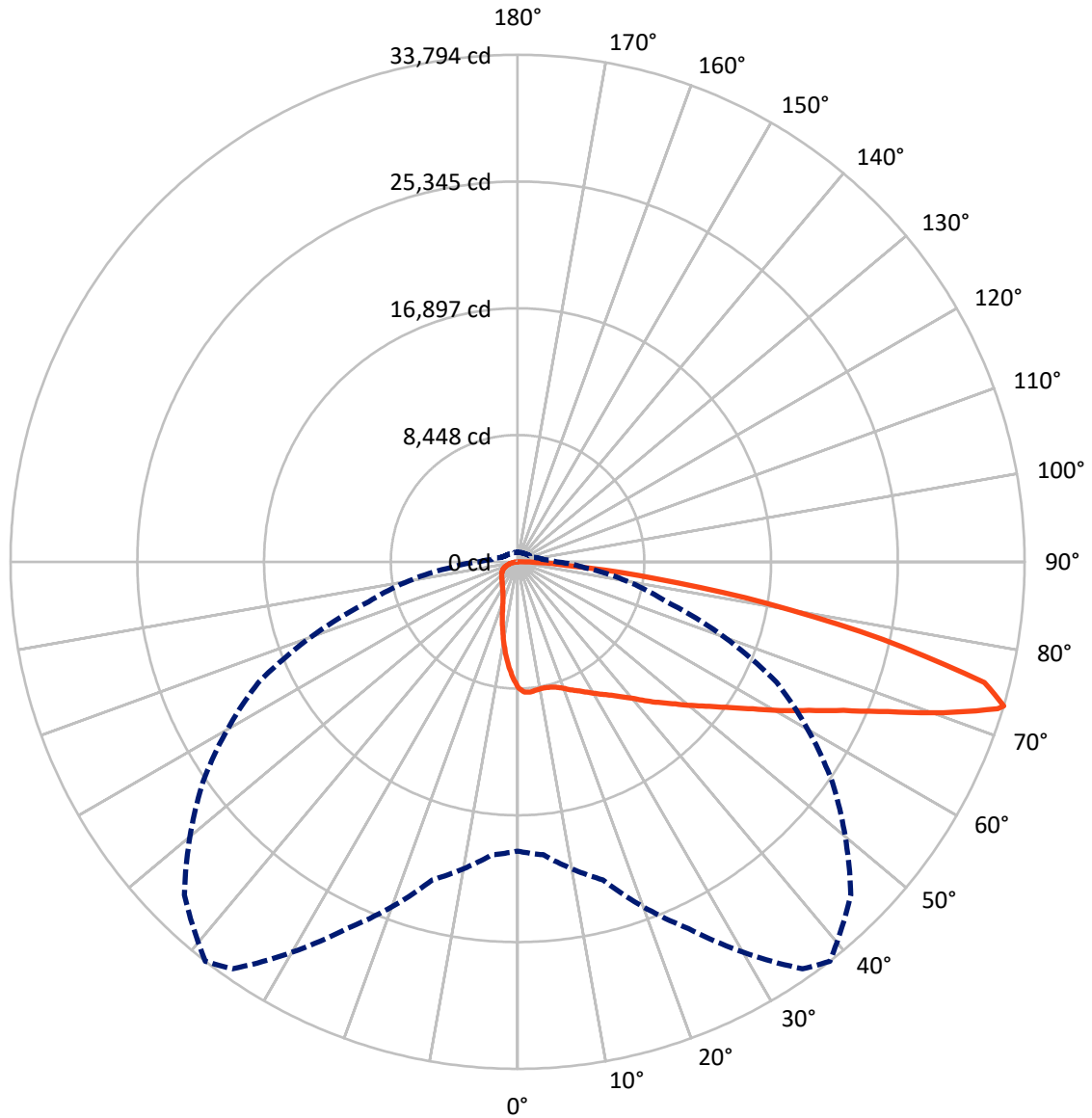
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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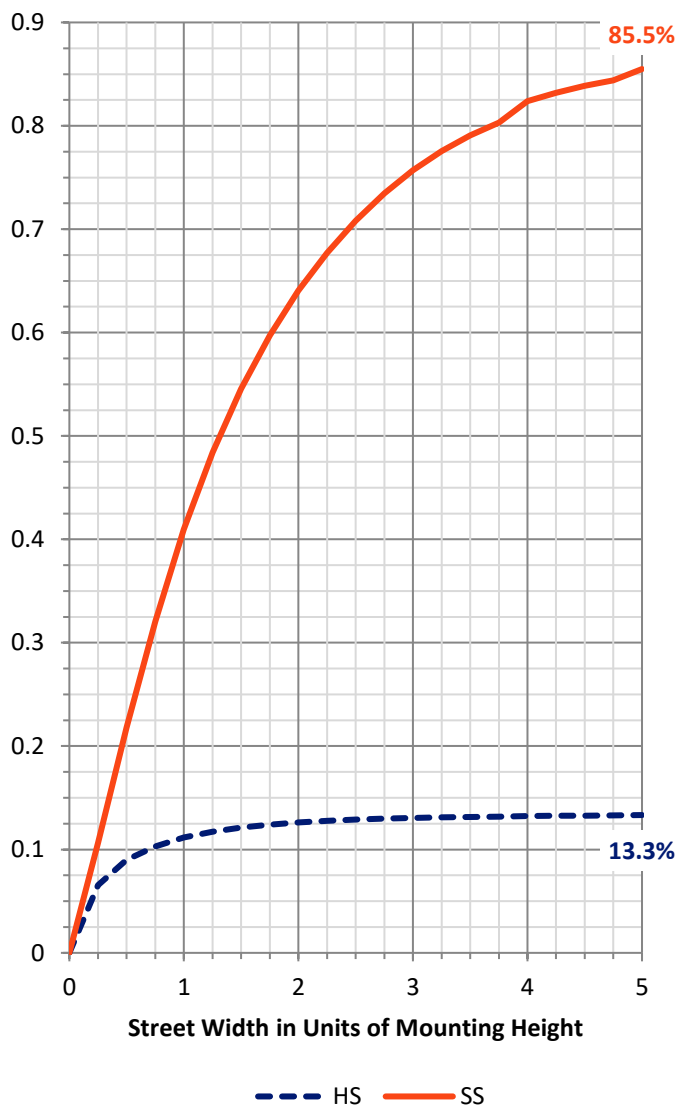
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6436.1	0.0	6436.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	41441.2	0.0	41441.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	47877.3	0.0	47877.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.2	1.5
10°-20°	1882.8	3.9
20°-30°	2931.8	6.1
30°-40°	4300.3	9.0
40°-50°	6379.0	13.3
50°-60°	9037.8	18.9
60°-70°	11464.6	23.9
70°-80°	9543.5	19.9
80°-90°	1603.4	3.3
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°	47877.3	100.0
0°-180°	47877.3	100.0

Coefficient of Utilization

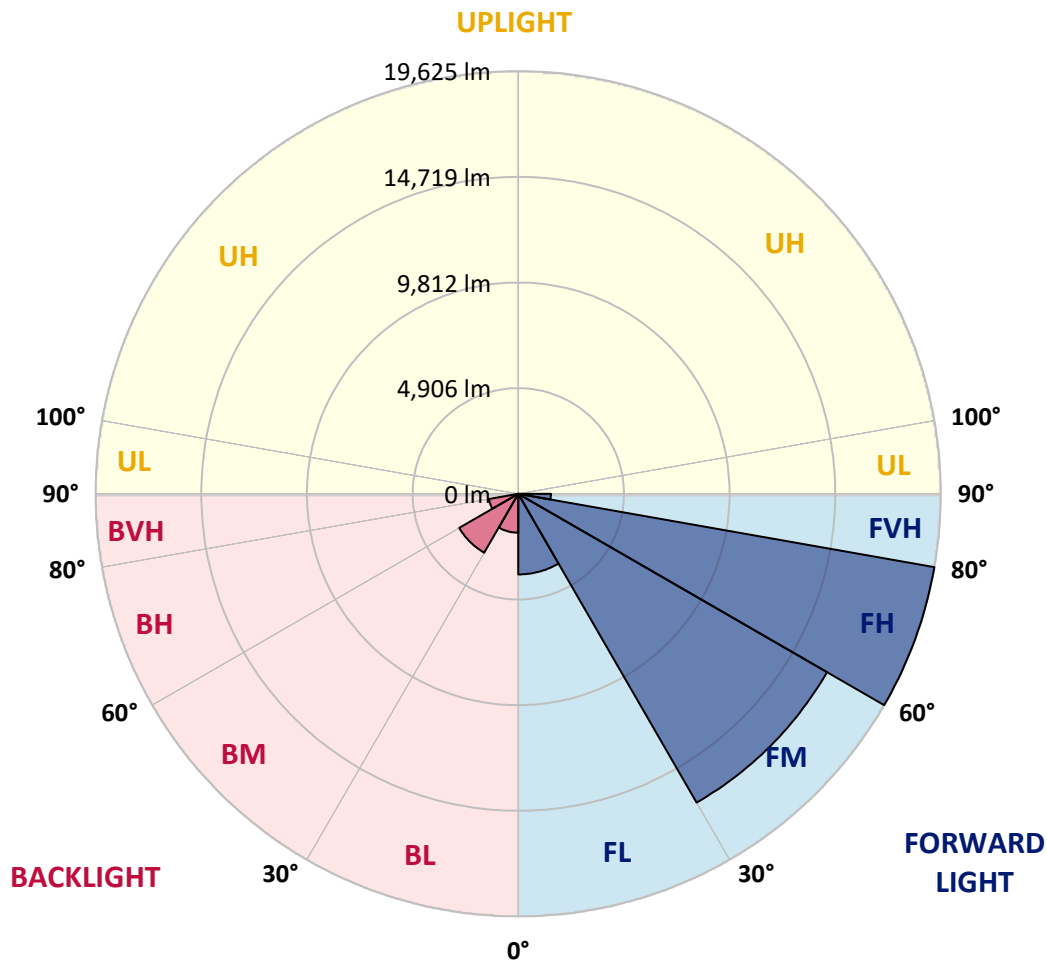


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3742.7	7.8			
FM (30°-60°)	16557.3	34.6			
FH (60°-80°)	19624.7	41.0			G5
FVH (80°-90°)	1516.5	3.2			G5
BL (0°-30°)	1806.0	3.8	B3/2500		
BM (30°-60°)	3159.7	6.6	B3/5000		
BH (60°-80°)	1383.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	87.0	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2
2.5°	8749.2	8792.5	8770.9	8741.1	8722.2	8703.2	8676.2	8597.8	8535.6	8468.0	8362.6
5°	8814.1	8841.1	8822.2	8784.3	8741.1	8722.2	8670.8	8568.1	8468.0	8354.5	8197.6
7.5°	8776.3	8787.1	8765.5	8719.5	8681.6	8646.4	8587.0	8473.4	8351.7	8213.8	8008.4
10°	8641.0	8681.6	8681.6	8643.8	8605.9	8587.0	8527.5	8419.4	8308.5	8151.7	7908.4
12.5°	8530.2	8573.5	8608.6	8597.8	8595.1	8595.1	8549.1	8468.0	8338.2	8189.6	7900.2
15°	8454.5	8505.9	8581.6	8624.8	8651.8	8660.0	8641.0	8570.7	8438.2	8265.3	7932.7
17.5°	8438.2	8500.5	8638.4	8733.0	8803.3	8800.5	8795.1	8697.8	8551.8	8373.4	7973.2
20°	8511.3	8592.4	8784.3	8933.0	9035.8	9016.9	8987.1	8860.0	8689.7	8489.7	8011.1
22.5°	8730.3	8814.1	9024.9	9187.2	9287.2	9287.2	9198.0	9030.4	8849.2	8624.8	8062.5
25°	9043.9	9135.8	9360.2	9525.2	9571.2	9536.0	9446.7	9243.9	9035.8	8819.5	8170.6
27.5°	9427.8	9538.7	9746.9	9884.7	9871.2	9844.2	9752.3	9492.7	9284.5	9087.2	8354.5
30°	9906.4	9987.5	10203.8	10236.2	10187.5	10182.1	10052.4	9792.8	9598.2	9446.7	8616.7
32.5°	10357.9	10430.9	10603.9	10617.5	10531.0	10541.8	10420.1	10182.1	10071.3	10017.2	9057.4
35°	10836.5	10874.3	11023.0	11006.8	10950.0	10941.9	10893.3	10666.1	10701.3	10798.6	9682.0
37.5°	11236.6	11312.3	11396.1	11409.6	11407.0	11434.0	11466.4	11358.3	11561.1	11866.6	10501.2
40°	11604.3	11669.2	11793.5	11836.8	11942.2	11996.3	12107.2	12109.9	12577.6	13080.6	11509.7
42.5°	11853.1	11963.9	12196.4	12274.9	12531.7	12693.9	12858.8	13034.6	13713.2	14359.4	12699.3
45°	12069.3	12215.3	12602.0	12845.3	13194.1	13391.5	13740.2	14107.9	15083.9	15930.2	13907.9
47.5°	12396.5	12526.3	12969.7	13399.6	13926.8	14153.9	14675.7	15224.6	16500.7	17428.1	15065.1
50°	12850.8	12929.1	13380.6	14080.9	14754.1	15046.1	15735.6	16527.8	18014.8	18907.0	16081.6
52.5°	13432.1	13464.5	13824.0	14756.8	15643.6	16005.9	16919.8	17844.5	19339.6	20191.3	16887.4
55°	14118.7	14064.7	14345.9	15473.3	16660.3	17133.4	18114.9	19177.4	20829.4	21229.5	17474.1
57.5°	14797.4	14713.6	14938.0	16343.9	17914.7	18485.2	19628.9	20550.9	22159.6	22200.2	17885.1
60°	15516.6	15454.4	15722.1	17365.9	19453.2	20129.1	21186.3	21975.8	23446.5	22876.0	17949.9
62.5°	16254.7	16154.6	16535.9	18515.0	21186.3	21800.0	22824.7	23489.8	24709.2	23127.5	17325.4
65°	16971.1	16925.2	17514.6	19880.4	23160.0	23857.5	24852.5	25304.0	25720.4	22749.0	15776.1
67.5°	17733.6	17825.5	18766.4	21702.6	25733.9	26609.9	27683.3	27258.8	26009.7	20956.4	13286.0
70°	18896.2	18955.7	20410.3	24090.0	29051.3	30108.5	30627.6	27953.6	24614.5	17552.4	9987.5
72.5°	19396.4	19658.6	21878.4	26596.4	32820.3	33466.5	31617.1	26404.4	20504.9	11923.4	5247.9
73°	19285.5	19599.2	21946.0	26977.6	33115.0	33793.7	31406.3	25606.8	19061.1	10268.7	4499.0
75°	17903.9	18290.6	21067.3	26658.6	32541.8	32136.3	28015.8	21824.3	12880.4	4669.3	2049.4
77.5°	14126.9	14237.8	16692.7	21526.9	25625.7	24874.1	20967.3	13640.2	5261.4	1735.8	1162.6
80°	7086.4	7494.6	9408.9	12331.6	17136.1	16890.1	13234.7	6451.1	2192.7	1019.3	770.6
82.5°	3409.3	3698.7	4582.8	6013.0	9468.3	9243.9	6553.8	3525.6	1392.4	594.8	454.2
85°	2195.4	2411.7	2917.3	2868.6	3893.3	3717.6	2944.3	2668.5	824.7	310.9	316.3
87.5°	1449.2	1587.1	1903.4	1522.2	1416.8	1281.5	1300.5	1503.3	162.2	118.9	43.2
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°	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2	8411.2
2.5°	8319.3	8284.1	8167.9	8054.3	7946.2	7843.5	7775.9	7686.6	7627.1	7643.4	7667.7
5°	8111.1	8032.7	7827.3	7627.1	7437.9	7213.5	7032.4	6886.3	6775.5	6734.9	6726.8
7.5°	7892.1	7759.6	7465.0	7121.5	6799.8	6521.4	6199.6	6040.1	5853.6	5788.6	5767.0
10°	7759.6	7581.2	7167.5	6688.9	6205.0	5742.7	5393.9	5110.0	4853.2	4804.5	4780.1
12.5°	7721.8	7486.6	6929.6	6313.2	5669.7	5101.9	4585.5	4212.4	3963.6	3906.9	3823.1
15°	7700.2	7408.1	6707.9	5934.7	5118.1	4426.0	3882.5	3447.2	3220.1	3068.7	3071.4
17.5°	7681.2	7318.9	6459.1	5520.9	4642.3	3844.7	3244.4	2852.4	2644.2	2563.2	2555.0
20°	7654.2	7213.5	6172.5	5085.7	4098.8	3314.8	2771.3	2479.3	2338.7	2271.1	2268.4
22.5°	7643.4	7110.7	5891.4	4642.3	3617.5	2906.5	2457.7	2252.2	2163.0	2117.0	2117.0
25°	7670.4	7037.8	5596.6	4220.4	3190.4	2557.7	2241.3	2100.8	2049.4	2025.1	2016.9
27.5°	7754.2	7005.3	5304.7	3798.7	2798.4	2319.8	2095.4	1998.1	1960.2	1941.3	1944.0
30°	7913.8	7002.6	5018.1	3382.3	2506.3	2138.6	1979.1	1911.5	1881.8	1871.0	1868.2
32.5°	8170.6	7062.1	4736.9	3039.0	2260.3	1987.3	1871.0	1822.3	1808.8	1800.7	1798.0
35°	8605.9	7229.8	4458.4	2725.3	2071.0	1852.0	1768.2	1743.9	1724.9	1733.1	1735.8
37.5°	9192.6	7519.0	4193.4	2479.3	1927.7	1752.0	1681.7	1660.0	1649.2	1657.4	1665.5
40°	9979.4	7935.4	3971.8	2281.9	1825.0	1668.2	1606.0	1587.1	1576.3	1589.8	1592.5
42.5°	10847.3	8416.6	3787.9	2127.8	1741.2	1597.9	1538.4	1516.7	1508.7	1516.7	1519.5
45°	11739.5	8976.3	3693.3	2016.9	1670.9	1546.5	1484.3	1460.0	1441.1	1435.6	1443.8
47.5°	12618.2	9462.9	3690.6	1949.4	1614.1	1500.5	1433.0	1406.0	1381.6	1368.1	1365.4
50°	13334.6	9849.6	3755.4	1919.6	1565.5	1449.2	1381.6	1354.6	1322.1	1295.1	1300.5
52.5°	13875.5	10101.0	3785.2	1906.1	1538.4	1395.1	1327.5	1303.2	1265.3	1230.2	1230.2
55°	14224.2	10160.5	3712.2	1892.6	1516.7	1338.3	1265.3	1243.7	1205.8	1170.7	1170.7
57.5°	14343.2	9976.7	3449.9	1860.2	1495.1	1289.7	1203.2	1184.2	1154.5	1119.3	1113.9
60°	14067.4	9354.8	2990.3	1762.8	1451.9	1238.3	1135.6	1127.4	1116.6	1086.9	1084.2
62.5°	13004.8	8035.4	2490.1	1635.8	1378.9	1184.2	1073.3	1086.9	1095.0	1078.8	1076.1
65°	11236.6	6524.0	2127.8	1460.0	1281.5	1108.5	1005.8	1040.9	1062.5	1062.5	1057.1
67.5°	9114.2	5009.9	1792.5	1308.6	1159.9	1005.8	930.0	957.1	973.3	967.9	981.4
70°	6478.1	3393.1	1460.0	1135.6	1005.8	889.5	832.7	832.7	821.9	816.5	816.5
72.5°	3141.7	1938.6	1184.2	949.0	857.1	759.7	713.8	694.8	673.2	670.5	657.0
73°	2625.3	1738.5	1130.2	913.8	821.9	740.8	689.4	659.7	646.2	635.4	632.7
75°	1597.9	1319.4	943.6	770.6	700.2	638.1	592.1	565.1	551.5	543.5	540.7
77.5°	1051.7	984.2	732.7	589.4	535.3	497.5	478.6	451.6	443.4	432.6	432.6
80°	784.1	751.6	524.5	416.4	383.9	351.5	346.1	340.7	319.1	305.5	300.1
82.5°	505.6	535.3	356.9	278.5	243.4	216.3	219.0	227.1	205.5	186.6	181.2
85°	359.6	386.6	216.3	127.1	102.7	89.2	100.1	89.2	91.9	73.0	59.5
87.5°	59.5	102.7	37.8	16.2	8.1	5.4	0.0	0.0	0.0	0.0	0.0
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)