

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: P651073

Luminaire Tested: **GALN-SA8C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651073
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-SA8C-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 46733.5 lumens
Efficiency: N/A
Efficacy: 108.9 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

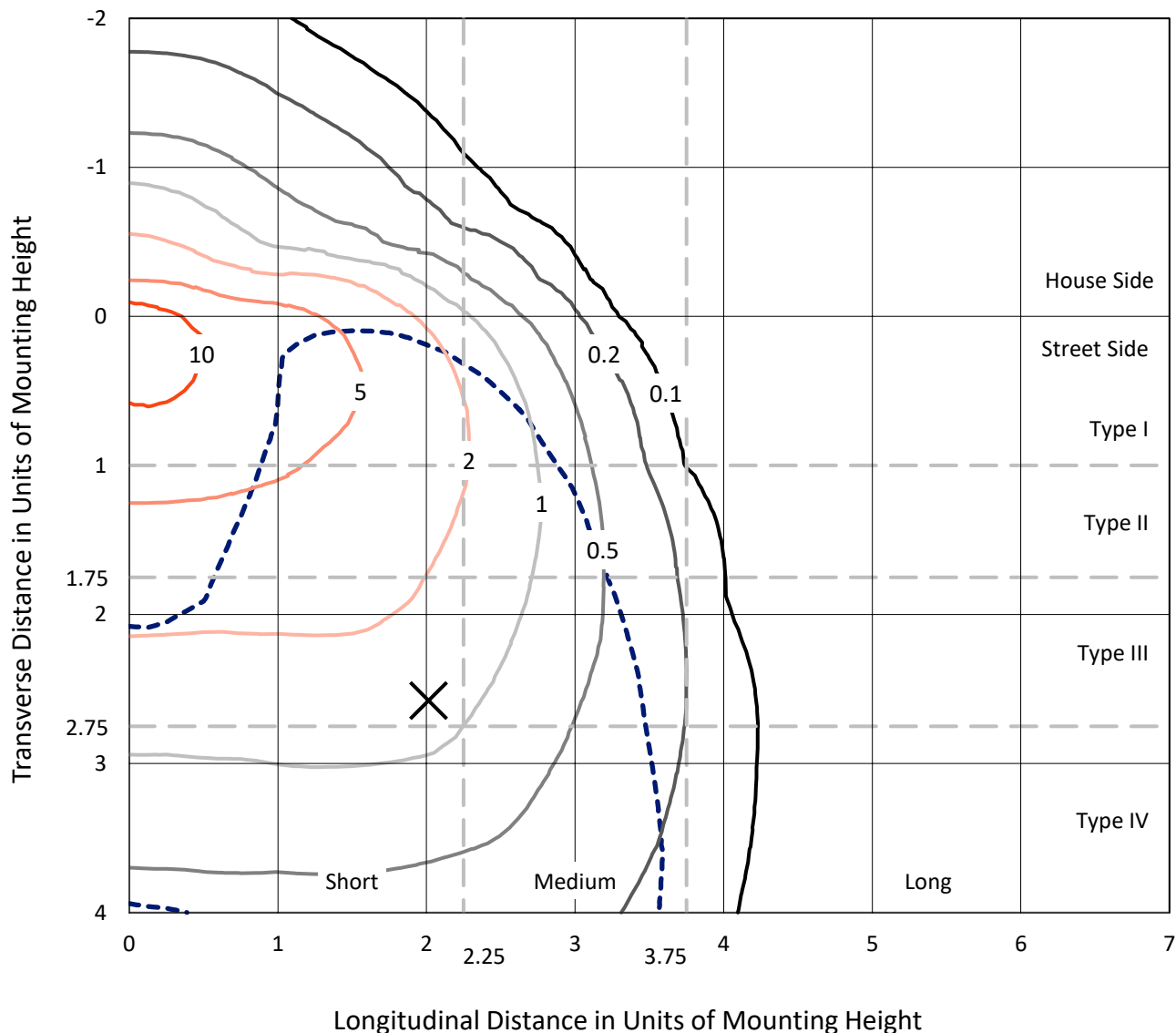
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

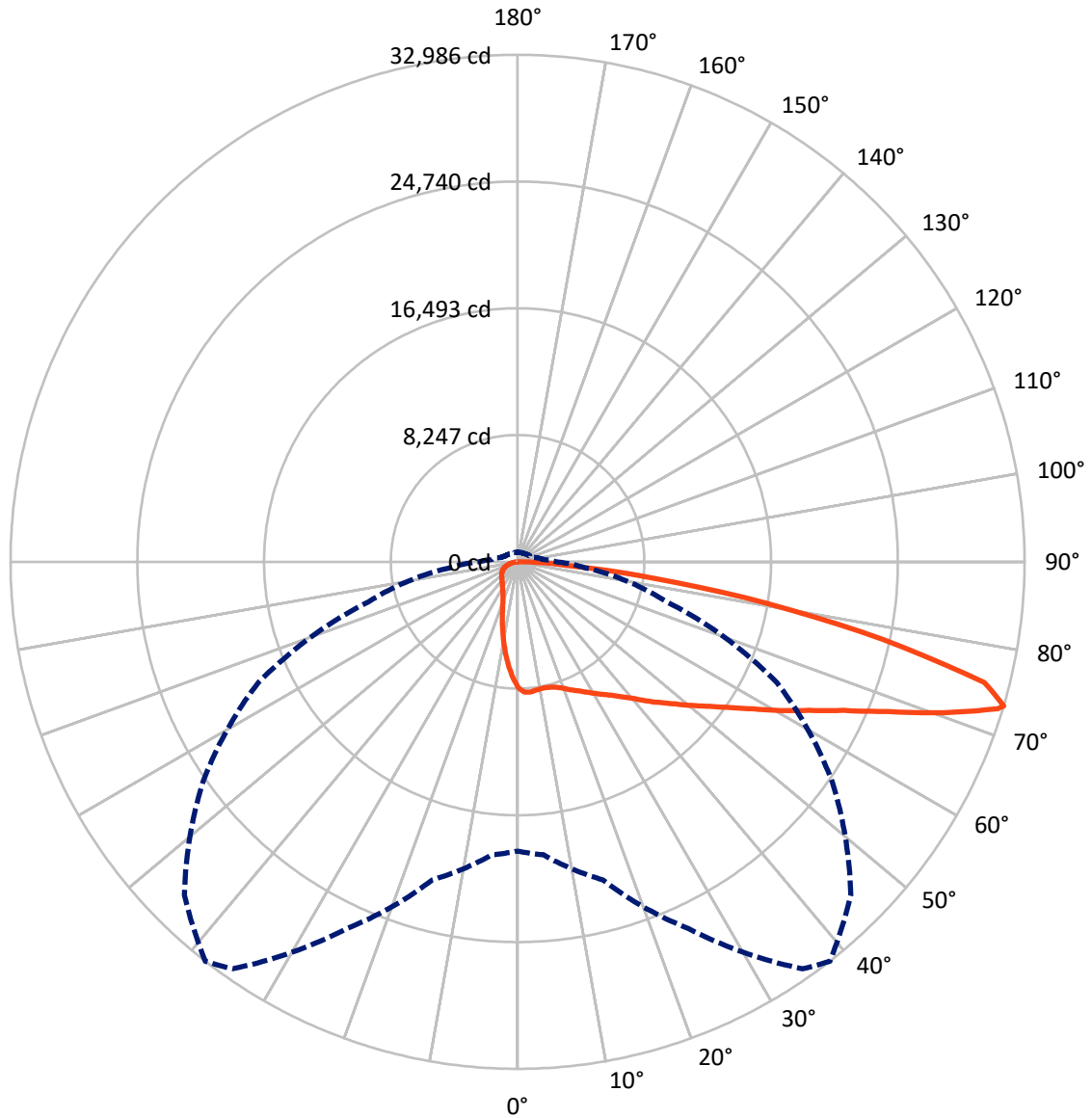
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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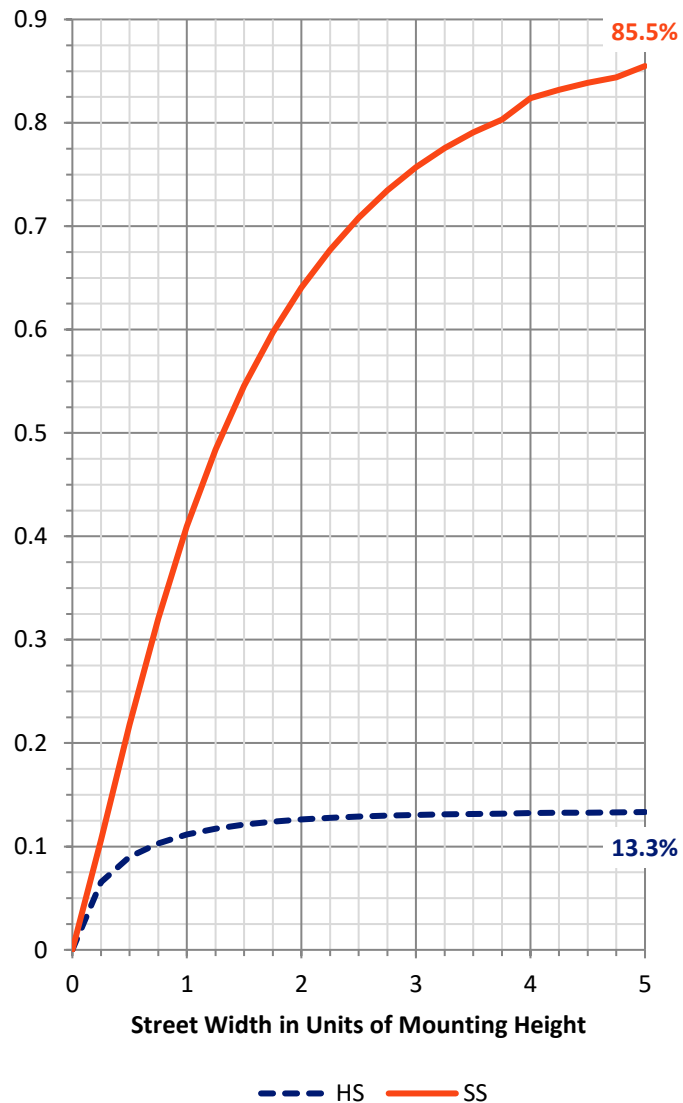
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6282.4	0.0	6282.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40451.2	0.0	40451.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	46733.5	0.0	46733.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.7	1.5
10°-20°	1837.8	3.9
20°-30°	2861.8	6.1
30°-40°	4197.5	9.0
40°-50°	6226.6	13.3
50°-60°	8821.8	18.9
60°-70°	11190.8	23.9
70°-80°	9315.5	19.9
80°-90°	1565.1	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°	46733.5	100.0
0°-180°	46733.5	100.0

Coefficient of Utilization

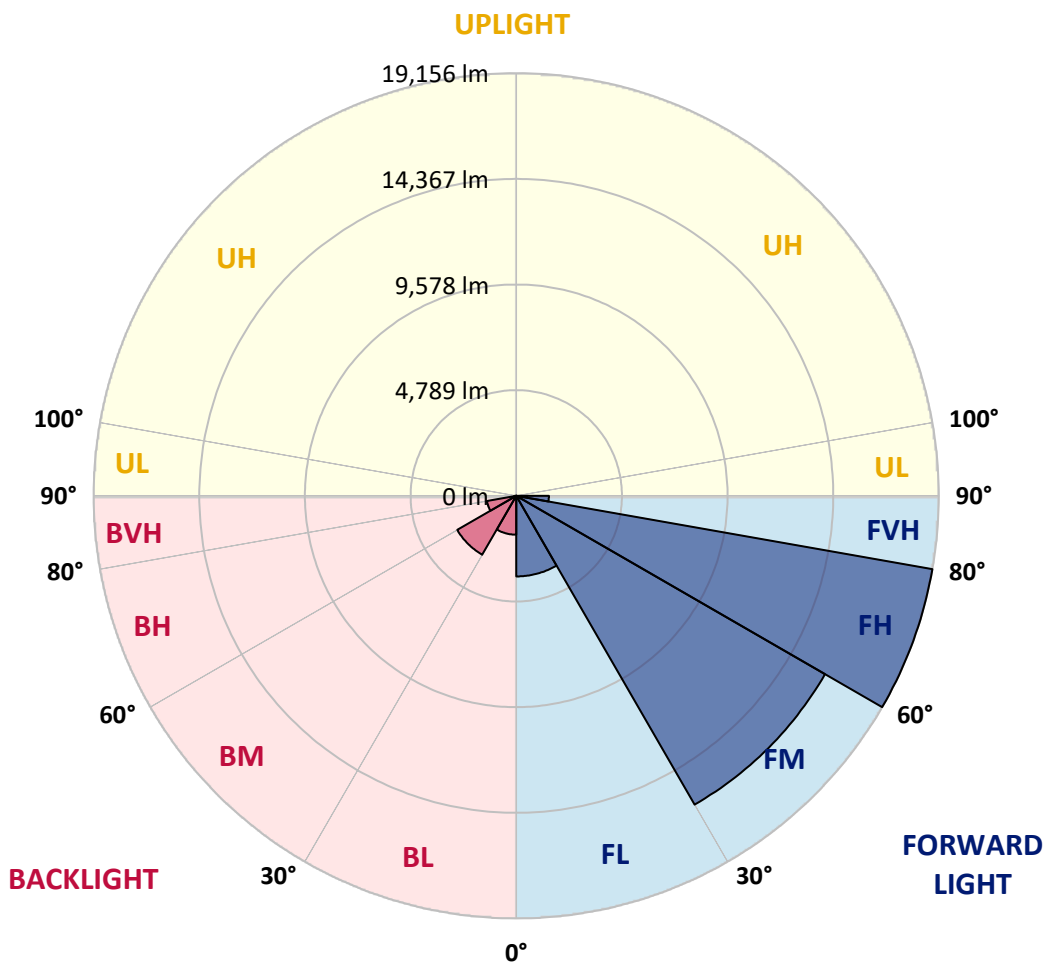


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3653.3	7.8			
FM (30°-60°)	16161.7	34.6			
FH (60°-80°)	19155.9	41.0			G5
FVH (80°-90°)	1480.3	3.2			G5
BL (0°-30°)	1762.9	3.8	B3/2500		
BM (30°-60°)	3084.3	6.6	B3/5000		
BH (60°-80°)	1350.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	84.9	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°	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3
2.5°	8540.2	8582.4	8561.3	8532.3	8513.8	8495.3	8469.0	8392.4	8331.7	8265.7	8162.7
5°	8603.5	8629.9	8611.4	8574.5	8532.3	8513.8	8463.7	8363.3	8265.7	8154.8	8001.8
7.5°	8566.6	8577.1	8556.0	8511.2	8474.2	8439.9	8381.8	8271.0	8152.2	8017.7	7817.1
10°	8434.6	8474.2	8474.2	8437.2	8400.3	8381.8	8323.8	8218.2	8110.0	7957.0	7719.5
12.5°	8326.4	8368.6	8402.9	8392.4	8389.7	8389.7	8344.9	8265.7	8139.0	7993.9	7711.5
15°	8252.5	8302.7	8376.5	8418.7	8445.2	8453.1	8434.6	8366.0	8236.7	8067.8	7743.2
17.5°	8236.7	8297.4	8432.0	8524.4	8593.0	8590.3	8585.0	8490.1	8347.5	8173.3	7782.8
20°	8307.9	8387.1	8574.5	8719.7	8819.9	8801.5	8772.4	8648.4	8482.2	8286.8	7819.7
22.5°	8521.7	8603.5	8809.4	8967.8	9065.4	9065.4	8978.3	8814.6	8637.8	8418.7	7869.8
25°	8827.8	8917.5	9136.6	9297.6	9342.5	9308.2	9221.1	9023.2	8819.9	8608.8	7975.4
27.5°	9202.6	9310.8	9514.0	9648.6	9635.4	9609.0	9519.3	9266.0	9062.7	8870.0	8154.8
30°	9669.7	9748.9	9960.0	9991.7	9944.2	9938.9	9812.2	9558.9	9368.8	9221.1	8410.8
32.5°	10110.4	10181.7	10350.6	10363.8	10279.4	10289.9	10171.1	9938.9	9830.7	9777.9	8841.0
35°	10577.6	10614.5	10759.7	10743.9	10688.4	10680.5	10633.0	10411.3	10445.6	10540.6	9450.7
37.5°	10968.2	11042.1	11123.9	11137.0	11134.4	11160.8	11192.4	11086.9	11284.9	11583.1	10250.4
40°	11327.1	11390.4	11511.9	11554.1	11656.9	11709.7	11818.0	11820.6	12277.2	12768.1	11234.8
42.5°	11569.9	11678.1	11905.0	11981.6	12232.3	12390.6	12551.7	12723.2	13385.6	14016.4	12395.9
45°	11781.0	11923.5	12300.9	12538.5	12878.9	13071.6	13412.0	13770.9	14723.6	15549.7	13575.6
47.5°	12100.3	12227.0	12659.8	13079.5	13594.1	13815.8	14325.1	14860.9	16106.5	17011.7	14705.1
50°	12543.7	12620.2	13061.0	13744.5	14401.6	14686.7	15359.7	16132.9	17584.5	18455.3	15697.4
52.5°	13111.1	13142.8	13493.8	14404.3	15270.0	15623.6	16515.6	17418.2	18877.6	19708.9	16483.9
55°	13781.5	13728.7	14003.2	15103.7	16262.2	16724.0	17682.1	18719.2	20331.8	20722.3	17056.6
57.5°	14443.8	14362.1	14581.1	15953.4	17486.7	18043.7	19160.0	20060.0	21630.2	21669.8	17457.7
60°	15145.9	15085.2	15346.5	16951.0	18988.4	19648.2	20680.1	21450.7	22886.4	22329.6	17521.1
62.5°	15866.4	15768.8	16140.8	18072.7	20680.1	21279.2	22279.4	22928.6	24118.9	22575.0	16911.4
65°	16565.8	16520.9	17096.2	19405.4	22606.7	23287.5	24258.7	24699.5	25105.9	22205.5	15399.2
67.5°	17310.0	17399.7	18318.1	21184.2	25119.1	25974.2	27021.9	26607.6	25388.3	20455.8	12968.6
70°	18444.8	18502.8	19922.7	23514.5	28357.3	29389.2	29895.9	27285.8	24026.5	17133.1	9748.9
72.5°	18933.0	19189.0	21355.8	25961.0	32036.2	32667.0	30861.8	25773.6	20015.0	11638.5	5122.5
73°	18824.8	19131.0	21421.7	26333.1	32323.9	32986.3	30656.0	24995.0	18605.8	10023.4	4391.4
75°	17476.2	17853.6	20564.0	26021.7	31764.4	31368.5	27346.5	21303.0	12572.8	4557.7	2000.5
77.5°	13789.4	13897.6	16293.9	21012.6	25013.5	24279.8	20466.3	13314.4	5135.7	1694.3	1134.8
80°	6917.1	7315.6	9184.1	12037.0	16726.7	16486.5	12918.4	6296.9	2140.3	995.0	752.1
82.5°	3327.9	3610.3	4473.3	5869.4	9242.2	9023.2	6397.2	3441.4	1359.1	580.6	443.4
85°	2143.0	2354.1	2847.6	2800.1	3800.3	3628.7	2874.0	2604.8	804.9	303.5	308.8
87.5°	1414.6	1549.1	1857.9	1485.8	1382.9	1250.9	1269.4	1467.4	158.4	116.1	42.2
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°	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3	8210.3
2.5°	8120.5	8086.2	7972.8	7861.9	7756.4	7656.0	7590.1	7503.0	7445.0	7460.8	7484.6
5°	7917.3	7840.8	7640.2	7445.0	7260.2	7041.2	6864.3	6721.9	6613.6	6574.0	6566.1
7.5°	7703.6	7574.3	7286.6	6951.5	6637.3	6365.5	6051.5	5895.7	5713.7	5650.3	5629.2
10°	7574.3	7400.0	6996.3	6529.2	6056.8	5605.5	5265.0	4987.9	4737.2	4689.7	4666.0
12.5°	7537.3	7307.7	6764.1	6162.3	5534.2	4980.0	4476.0	4111.7	3868.9	3813.5	3731.7
15°	7516.2	7231.2	6547.6	5792.9	4995.9	4320.2	3789.8	3364.8	3143.2	2995.4	2998.0
17.5°	7497.8	7144.1	6304.8	5389.0	4531.4	3752.8	3167.0	2784.3	2581.0	2501.9	2494.0
20°	7471.4	7041.2	6025.1	4964.2	4000.9	3235.6	2705.1	2420.1	2282.8	2216.9	2214.2
22.5°	7460.8	6940.9	5750.7	4531.4	3531.1	2837.0	2399.0	2198.4	2111.3	2066.4	2066.4
25°	7487.2	6869.6	5463.0	4119.6	3114.1	2496.6	2187.9	2050.6	2000.5	1976.7	1968.8
27.5°	7569.0	6837.9	5178.0	3708.0	2731.5	2264.4	2045.3	1950.3	1913.4	1894.9	1897.5
30°	7724.7	6835.3	4898.2	3301.5	2446.5	2087.5	1931.9	1865.8	1836.8	1826.2	1823.6
32.5°	7975.4	6893.3	4623.7	2966.4	2206.3	1939.8	1826.2	1778.8	1765.6	1757.7	1755.0
35°	8400.3	7057.0	4351.9	2660.3	2021.6	1807.8	1726.0	1702.3	1683.8	1691.7	1694.3
37.5°	8973.0	7339.4	4093.2	2420.1	1881.7	1710.2	1641.5	1620.4	1609.8	1617.7	1625.7
40°	9741.0	7745.8	3876.8	2227.4	1781.4	1628.3	1567.6	1549.1	1538.6	1551.8	1554.4
42.5°	10588.1	8215.6	3697.4	2077.0	1699.6	1559.7	1501.7	1480.6	1472.6	1480.6	1483.2
45°	11459.0	8761.9	3605.0	1968.8	1631.0	1509.6	1448.9	1425.2	1406.7	1401.4	1409.3
47.5°	12316.8	9236.9	3602.4	1902.8	1575.5	1464.7	1398.8	1372.3	1348.6	1335.4	1332.7
50°	13016.2	9614.3	3665.8	1873.7	1528.0	1414.6	1348.6	1322.2	1290.5	1264.1	1269.4
52.5°	13544.0	9859.7	3694.8	1860.5	1501.7	1361.7	1295.8	1272.0	1235.1	1200.8	1200.8
55°	13884.4	9917.8	3623.5	1847.3	1480.6	1306.3	1235.1	1214.0	1177.1	1142.8	1142.8
57.5°	14000.5	9738.4	3367.5	1815.7	1459.5	1258.9	1174.4	1156.0	1126.9	1092.6	1087.3
60°	13731.3	9131.3	2918.9	1720.7	1417.2	1208.7	1108.4	1100.5	1089.9	1060.9	1058.3
62.5°	12694.1	7843.4	2430.7	1596.6	1345.9	1156.0	1047.7	1060.9	1068.8	1053.0	1050.4
65°	10968.2	6368.2	2077.0	1425.2	1250.9	1082.0	981.8	1016.1	1037.2	1037.2	1031.9
67.5°	8896.4	4890.2	1749.7	1277.3	1132.2	981.8	907.9	934.3	950.1	944.8	958.0
70°	6323.3	3312.1	1425.2	1108.4	981.8	868.2	812.8	812.8	802.3	797.0	797.0
72.5°	3066.6	1892.2	1156.0	926.4	836.6	741.6	696.8	678.3	657.2	654.5	641.3
73°	2562.6	1697.0	1103.1	892.0	802.3	723.1	673.0	644.0	630.8	620.2	617.5
75°	1559.7	1287.9	921.1	752.1	683.6	622.8	577.9	551.6	538.4	530.5	527.8
77.5°	1026.6	960.7	715.2	575.3	522.5	485.6	467.1	440.8	432.8	422.3	422.3
80°	765.3	733.7	512.0	406.5	374.7	343.0	337.8	332.5	311.4	298.2	292.9
82.5°	493.5	522.5	348.3	271.8	237.5	211.1	213.8	221.7	200.6	182.1	176.9
85°	351.0	377.4	211.1	124.0	100.2	87.1	97.6	87.1	89.7	71.2	58.0
87.5°	58.0	100.2	36.9	15.8	7.9	5.3	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)