

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: P651622

Luminaire Tested: **GALN-SA9D-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48514.8 lumens
Efficiency: N/A
Efficacy: 87.9 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

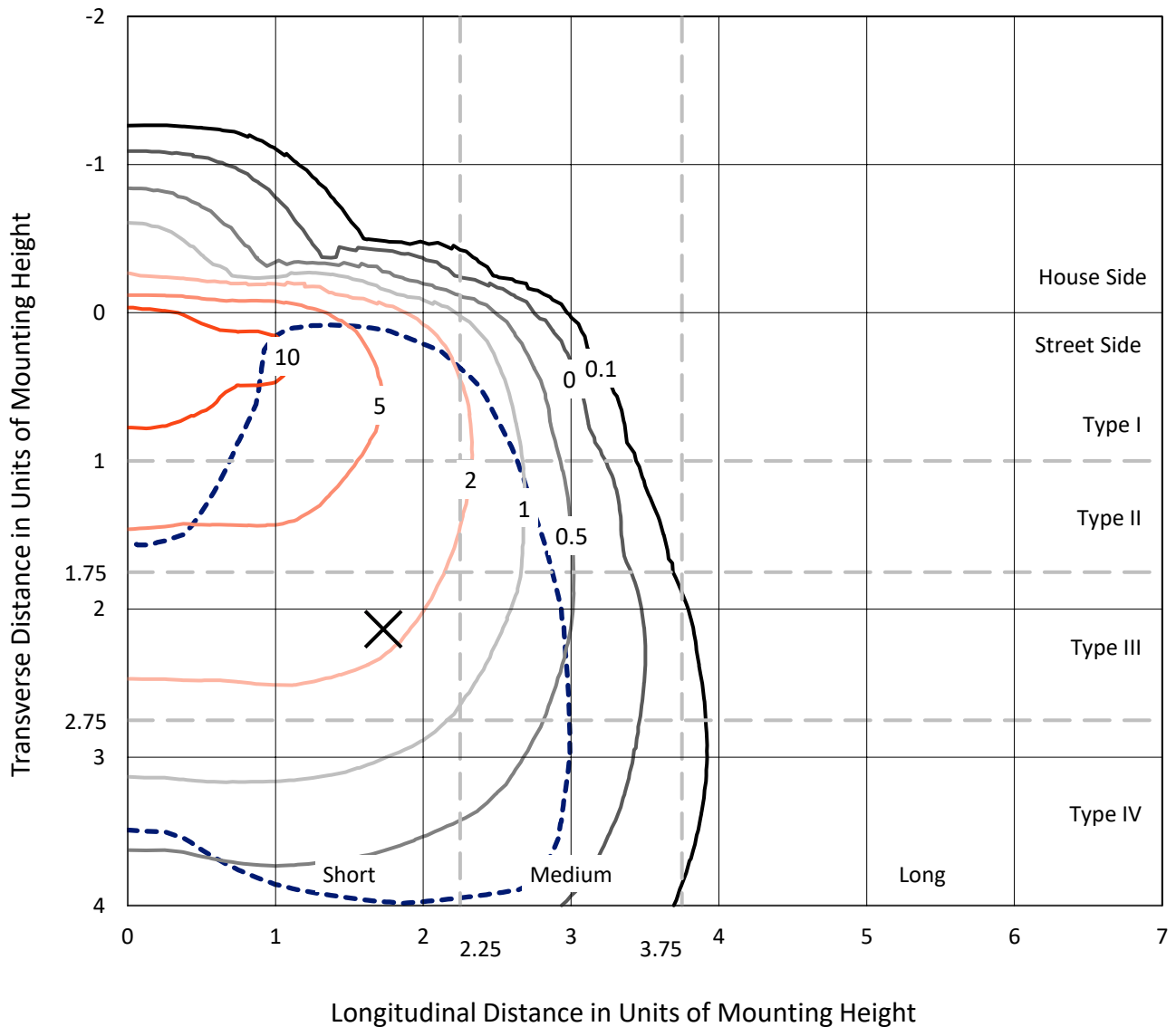
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

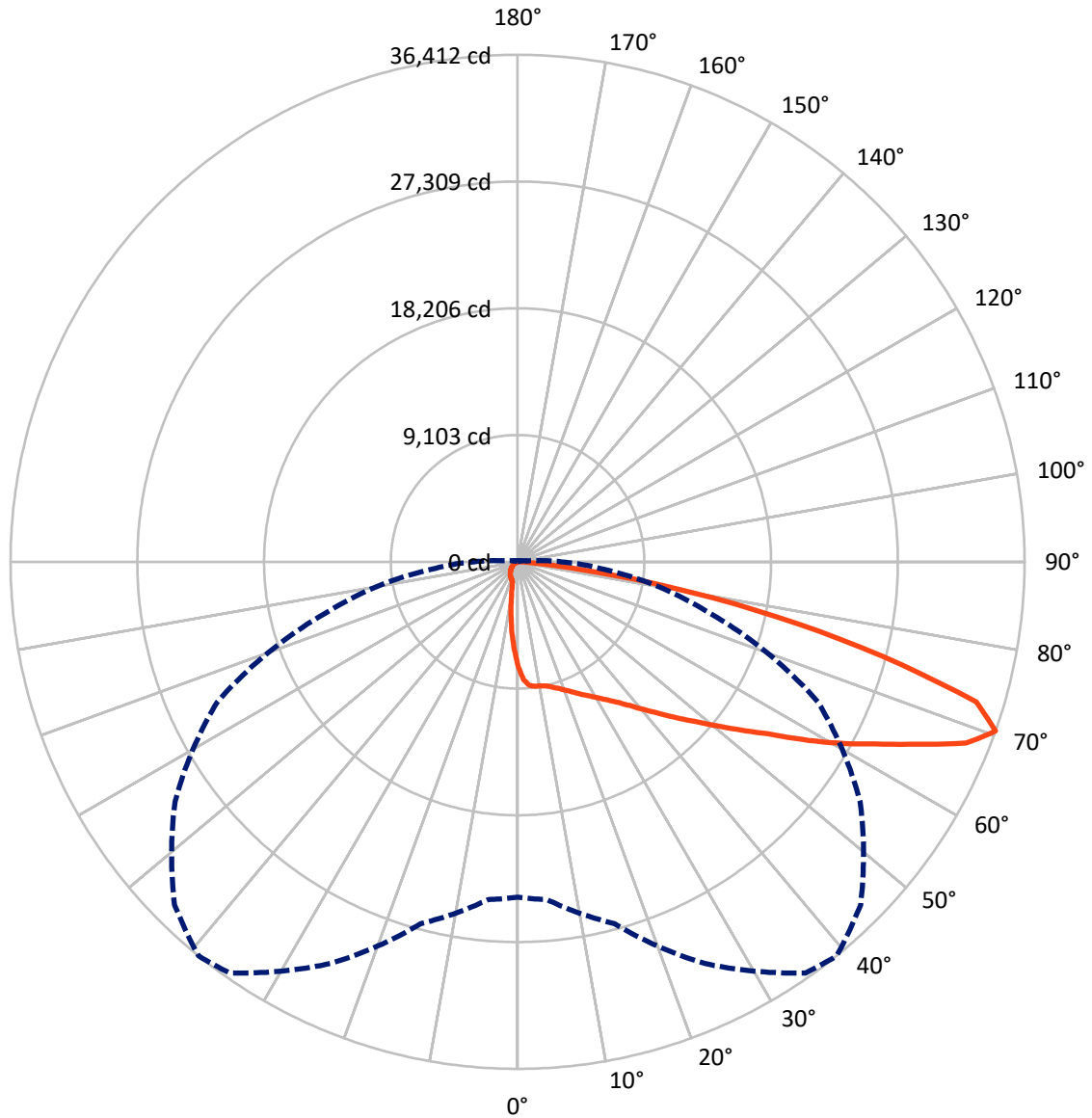
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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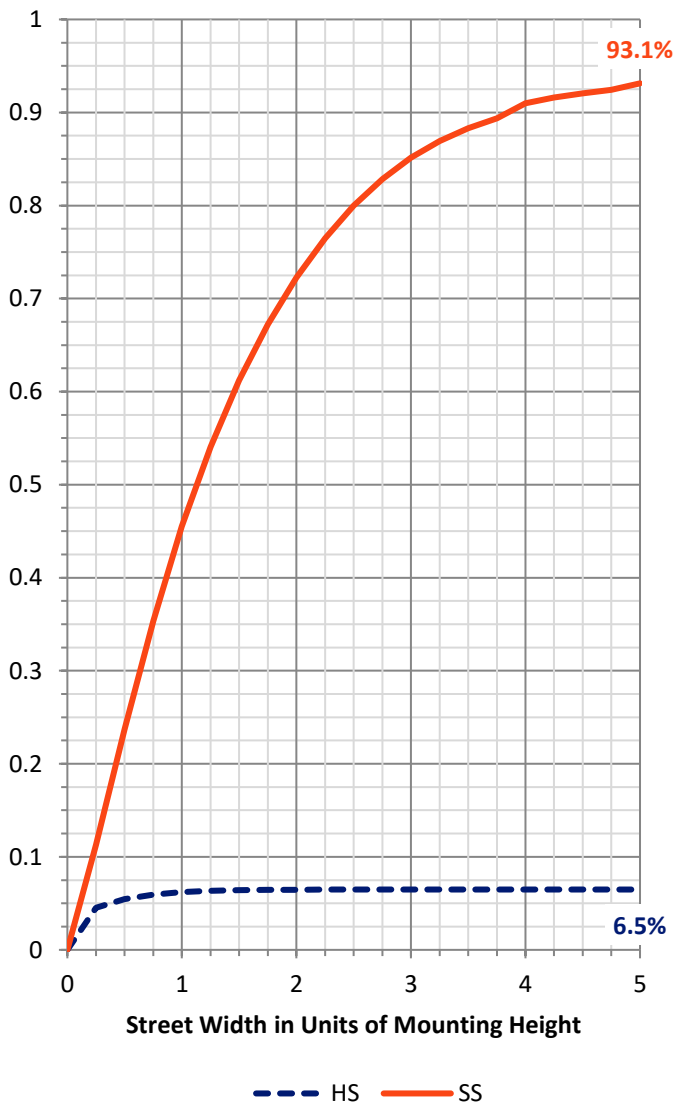
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3163.4	0.0	3163.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	45351.4	0.0	45351.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	48514.8	0.0	48514.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	1.3
10°-20°	1677.9	3.5
20°-30°	2810.9	5.8
30°-40°	4359.4	9.0
40°-50°	6908.4	14.2
50°-60°	10126.7	20.9
60°-70°	12979.9	26.8
70°-80°	8156.2	16.8
80°-90°	849.7	1.8
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°	48514.8	100.0
0°-180°	48514.8	100.0

Coefficient of Utilization

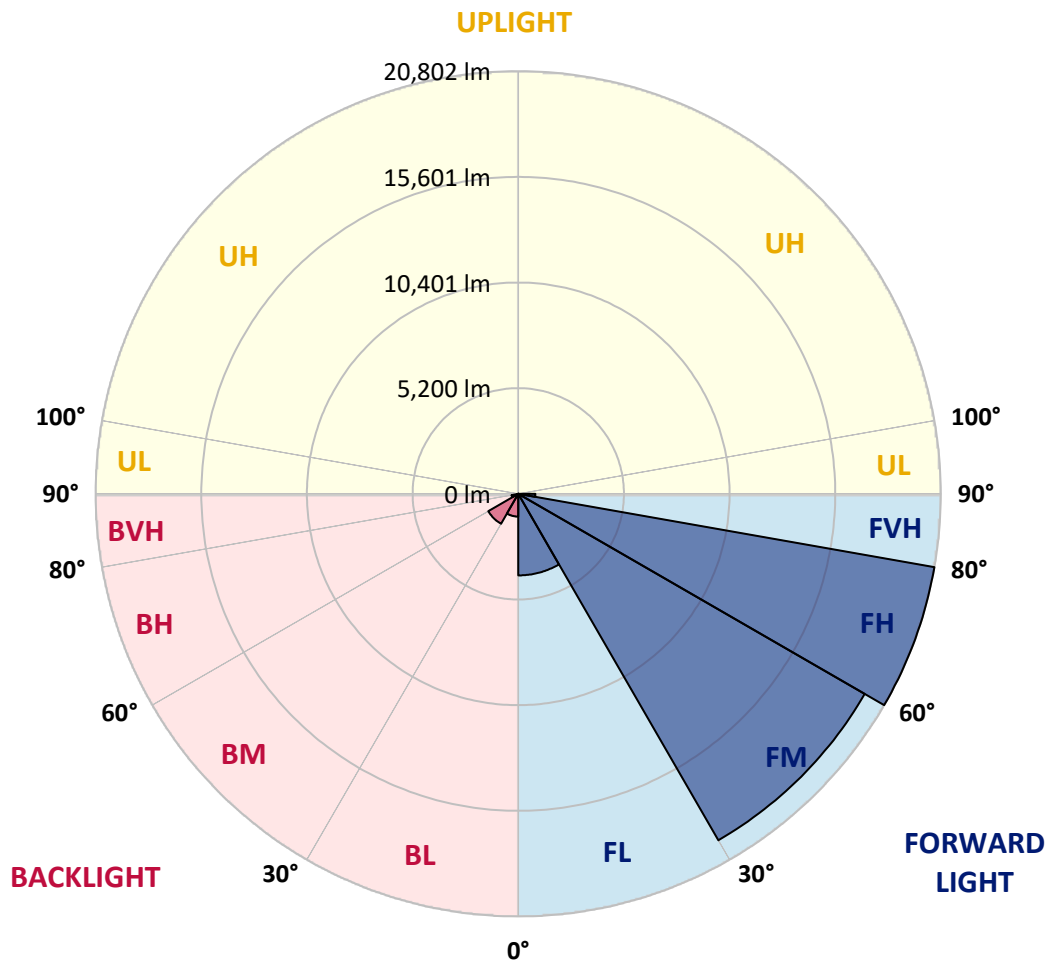


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4014.4	8.3			
FM (30°-60°)	19692.0	40.6			
FH (60°-80°)	20801.5	42.9			G5
FVH (80°-90°)	843.4	1.7			G5
BL (0°-30°)	1120.1	2.3	B3/2500		
BM (30°-60°)	1702.4	3.5	B2/2500		
BH (60°-80°)	334.6	0.7	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
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°	39°	45°	55°	65°	75°	85°
0°	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0
2.5°	8746.9	8717.6	8678.4	8632.8	8502.3	8479.6	8401.3	8235.0	8036.2	7873.2	7648.2
5°	9160.9	9177.2	9147.9	9066.3	8971.8	8916.4	8818.6	8561.0	8303.5	7974.2	7605.8
7.5°	9255.5	9288.0	9252.2	9174.0	9082.6	9024.0	8945.7	8724.0	8424.1	8049.2	7543.9
10°	9245.7	9284.8	9261.9	9190.3	9115.3	9059.8	8975.1	8799.0	8557.8	8163.3	7563.4
12.5°	9229.4	9281.5	9278.2	9242.4	9180.4	9138.1	9085.9	8929.4	8704.5	8329.6	7671.0
15°	9183.7	9248.9	9307.6	9337.0	9340.2	9340.2	9275.0	9108.7	8893.6	8548.0	7811.2
17.5°	9203.3	9278.2	9425.0	9509.7	9568.4	9561.9	9493.5	9314.2	9076.2	8773.0	7957.9
20°	9323.9	9425.0	9630.4	9799.9	9858.5	9839.0	9747.7	9539.0	9268.5	8965.3	8101.4
22.5°	9620.5	9711.9	9969.4	10168.3	10210.7	10158.5	10028.1	9744.5	9499.9	9174.0	8274.2
25°	10063.9	10171.6	10409.6	10559.5	10559.5	10530.2	10347.6	10015.0	9760.7	9464.1	8499.1
27.5°	10601.9	10693.1	10927.9	11061.5	10983.3	10898.5	10715.9	10314.9	10070.5	9829.2	8769.7
30°	11146.3	11205.0	11452.7	11511.4	11429.9	11322.4	11126.8	10725.8	10510.6	10324.8	9160.9
32.5°	11661.4	11788.5	11993.9	11980.9	11870.0	11817.9	11638.6	11211.5	11090.9	11071.3	9708.6
35°	12176.5	12274.3	12456.9	12502.5	12404.7	12394.9	12264.6	11948.3	11951.5	12078.7	10562.7
37.5°	12619.9	12707.9	12923.1	13024.1	13043.7	13092.6	13040.5	12831.8	13128.4	13477.3	11694.0
40°	12991.5	13115.4	13389.2	13565.3	13767.4	13946.7	13956.5	14002.1	14598.8	15198.6	13170.8
42.5°	13281.7	13454.5	13852.2	14178.2	14641.1	14869.4	15051.9	15302.9	16307.1	17203.6	14911.7
45°	13659.9	13858.8	14354.3	14866.1	15589.9	15964.7	16219.0	16890.6	18315.3	19537.9	16698.3
47.5°	14285.8	14390.1	14895.5	15642.0	16593.9	17128.6	17624.2	18641.3	20470.2	21565.6	18184.9
50°	15091.1	15159.5	15540.9	16577.6	17809.9	18514.1	19417.2	20613.7	22706.7	23247.8	19025.9
52.5°	15981.0	16003.9	16290.8	17607.8	19172.7	20059.4	21070.1	22546.9	24529.0	24447.5	19583.4
55°	17014.5	16981.9	17226.4	18726.0	20786.4	21800.3	22977.2	24525.7	26110.2	25298.5	19902.9
57.5°	18197.9	18109.9	18347.8	20209.4	22853.3	24066.1	25262.5	26234.1	27336.0	26012.4	20056.2
60°	19436.8	19260.8	19544.3	21875.3	25288.6	26439.4	27433.8	27694.6	28627.0	26579.6	19792.1
62.5°	20424.6	20427.8	20956.0	23648.8	27792.4	28799.8	29327.9	29562.7	29738.7	26455.8	18403.3
65°	21966.6	22018.7	22863.1	26110.2	30690.6	31564.3	31926.2	31163.3	29787.6	24917.0	16316.8
67.5°	23557.5	23723.8	25269.1	29500.7	34038.8	34743.0	34276.7	31473.1	28457.5	21405.9	12372.1
70°	24075.9	24349.7	26895.9	31835.0	36047.0	36412.1	34834.2	30028.8	23789.0	14311.9	6226.8
72.5°	22061.1	22504.5	25960.2	30984.0	34765.8	34449.5	31166.6	25184.3	15123.6	5434.6	1900.7
75°	15557.2	15752.9	21575.4	25702.6	27961.9	27065.4	23707.5	16235.3	6220.3	1525.7	652.0
77.5°	8032.9	7938.4	12831.8	17053.6	19942.0	19012.9	15524.6	8404.5	2357.1	635.7	404.3
80°	4153.4	4221.8	5551.9	8936.0	12173.2	11201.7	8277.4	3895.8	1255.1	352.1	309.7
82.5°	2327.7	2184.2	3191.7	3902.3	5692.1	4463.1	3175.4	2758.1	547.7	211.9	293.4
85°	423.8	443.4	1750.7	2109.3	1975.6	1255.1	1023.7	1842.0	159.7	117.4	205.4
87.5°	6.6	6.6	339.1	606.4	384.7	176.0	322.8	264.1	32.6	45.7	35.8
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°	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0	7570.0
2.5°	7534.1	7410.2	7178.8	6950.5	6660.4	6422.4	6262.7	6096.4	5926.9	5939.9	5979.0
5°	7403.7	7188.5	6732.1	6249.6	5786.7	5369.4	4958.6	4590.3	4440.2	4303.3	4309.9
7.5°	7273.3	6970.1	6301.8	5545.5	4844.5	4133.9	3618.7	3194.9	2970.0	2800.4	2751.5
10°	7214.6	6813.6	5907.4	4867.4	3873.0	3097.1	2435.3	2089.7	1822.4	1737.7	1760.5
12.5°	7240.7	6735.4	5551.9	4254.5	3071.0	2158.2	1695.3	1519.2	1460.6	1450.7	1444.2
15°	7289.6	6680.0	5203.1	3576.4	2256.0	1604.0	1424.7	1392.1	1385.5	1379.0	1382.3
17.5°	7354.8	6631.0	4831.5	2940.6	1731.1	1401.9	1349.7	1333.4	1330.1	1330.1	1330.1
20°	7420.0	6575.6	4417.4	2373.4	1444.2	1323.6	1291.0	1281.3	1278.0	1278.0	1274.7
22.5°	7495.0	6526.7	3996.9	1864.7	1330.1	1268.1	1238.9	1232.3	1229.0	1225.8	1225.8
25°	7602.6	6464.8	3550.3	1525.7	1258.4	1216.0	1186.7	1180.2	1176.9	1163.9	1167.1
27.5°	7746.0	6419.2	3090.6	1317.1	1193.2	1150.8	1131.2	1121.5	1115.0	1105.2	1108.4
30°	7941.6	6380.0	2601.5	1203.0	1118.2	1082.4	1062.8	1056.3	1049.7	1040.0	1040.0
32.5°	8280.7	6396.3	2086.4	1111.7	1049.7	1007.3	987.8	981.3	974.8	965.0	965.0
35°	8789.2	6490.8	1669.1	1033.4	968.2	925.9	906.3	906.3	896.5	883.5	880.2
37.5°	9620.5	6732.1	1339.9	958.5	890.0	850.9	828.0	821.6	811.7	792.2	788.9
40°	10601.9	7107.0	1128.0	883.5	818.3	779.2	759.6	740.1	713.9	694.4	691.1
42.5°	11834.2	7491.7	978.0	808.5	749.8	713.9	691.1	658.5	619.4	593.3	590.0
45°	13118.7	7843.8	877.0	740.1	684.7	655.3	629.2	577.0	528.1	495.5	492.2
47.5°	14077.2	7909.0	795.5	674.8	629.2	599.9	564.0	498.8	433.6	404.3	394.5
50°	14530.3	7592.8	710.7	609.6	573.8	541.2	495.5	420.6	348.8	312.9	306.5
52.5°	14690.0	7045.1	642.3	550.9	518.4	479.2	423.8	339.1	273.8	238.0	234.7
55°	14624.8	6353.9	580.3	495.5	453.1	407.5	352.1	270.5	202.1	172.8	166.3
57.5°	14282.5	5473.7	518.4	440.1	388.0	342.3	280.4	202.1	136.9	110.8	107.6
60°	13360.0	4274.0	456.4	378.2	329.3	280.4	221.7	143.5	84.8	62.0	62.0
62.5°	11801.6	3172.1	397.7	316.2	277.1	225.0	156.5	91.2	45.7	32.6	29.4
65°	9861.8	2340.8	332.5	267.4	231.4	176.0	110.8	55.4	22.8	9.8	6.6
67.5°	6882.1	1444.2	277.1	218.4	189.1	127.2	68.5	22.8	9.8	0.0	0.0
70°	3126.4	687.9	211.9	166.3	143.5	91.2	35.8	13.0	6.6	0.0	0.0
72.5°	971.5	361.9	150.0	120.6	97.8	58.7	19.6	9.8	6.6	0.0	0.0
75°	449.9	231.4	94.5	65.2	55.4	29.4	13.0	6.6	3.3	0.0	0.0
77.5°	335.8	179.3	55.4	35.8	29.4	19.6	9.8	6.6	3.3	0.0	0.0
80°	293.4	91.2	32.6	22.8	16.3	13.0	6.6	3.3	0.0	0.0	0.0
82.5°	264.1	45.7	19.6	13.0	9.8	6.6	3.3	3.3	0.0	0.0	0.0
85°	143.5	26.1	13.0	9.8	6.6	3.3	3.3	0.0	0.0	0.0	0.0
87.5°	26.1	13.0	9.8	6.6	6.6	3.3	3.3	3.3	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)