

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: P652557

Luminaire Tested: **GALN-SA8B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652557
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-SA8B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 31786.4 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

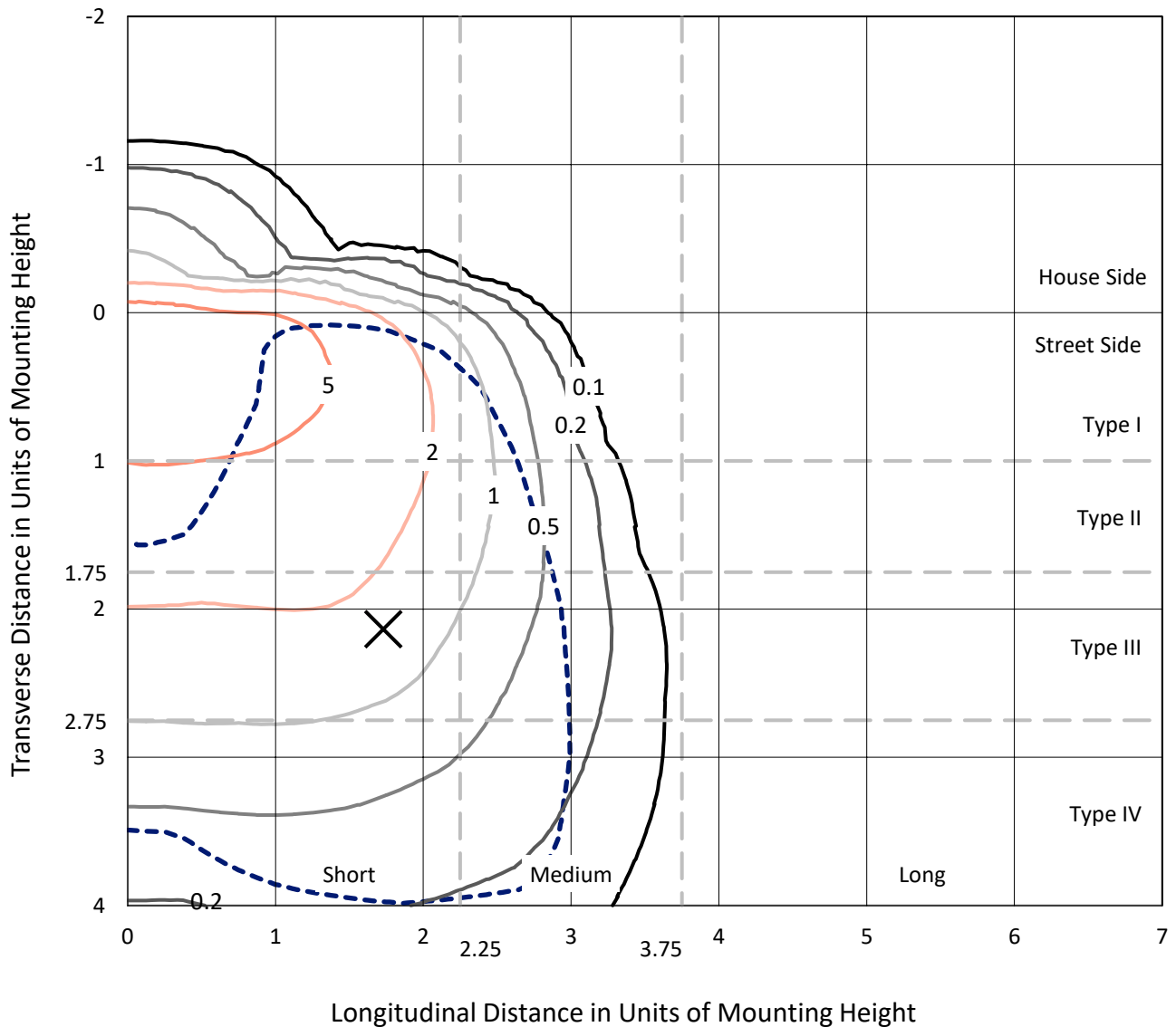
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

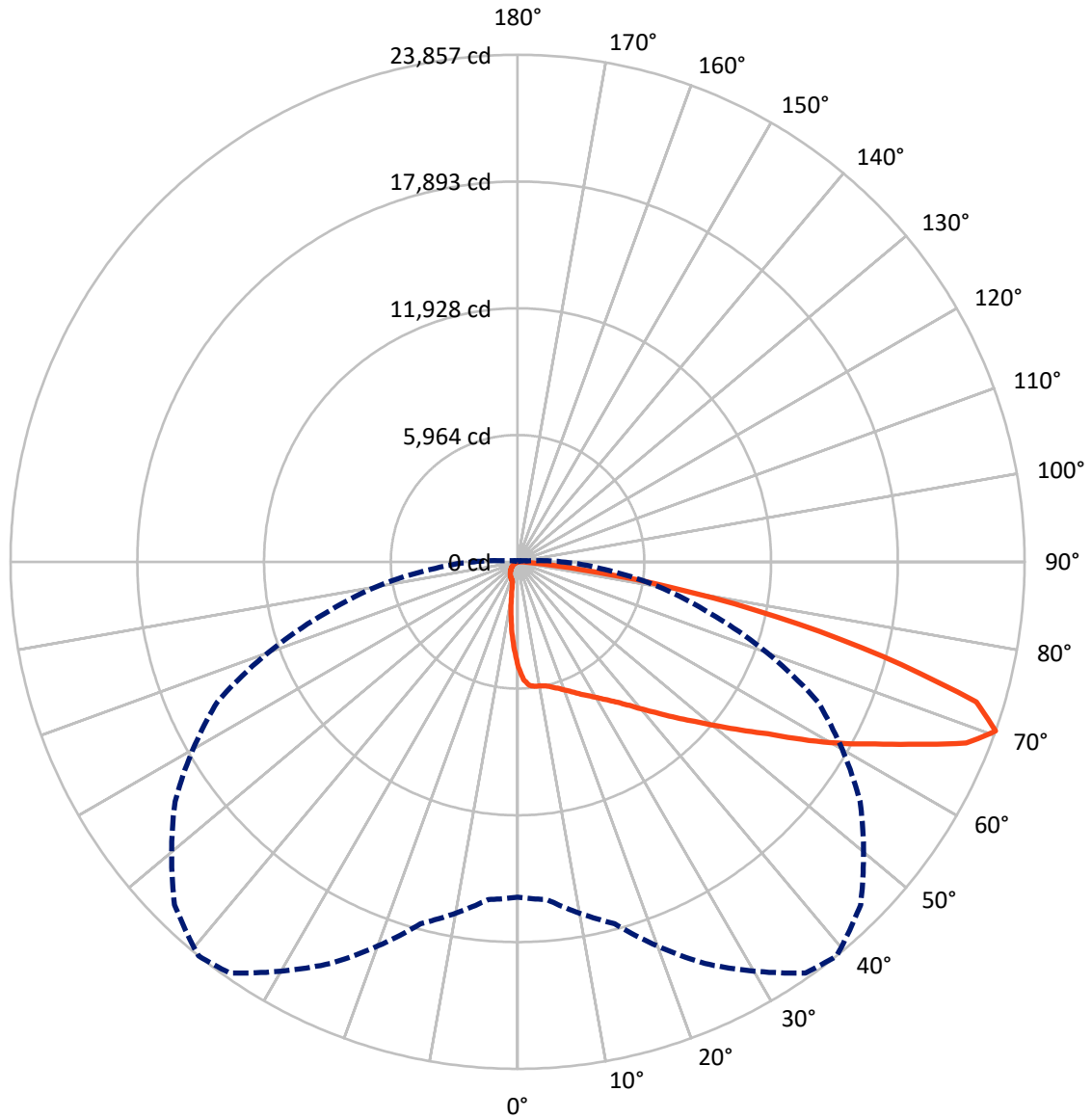
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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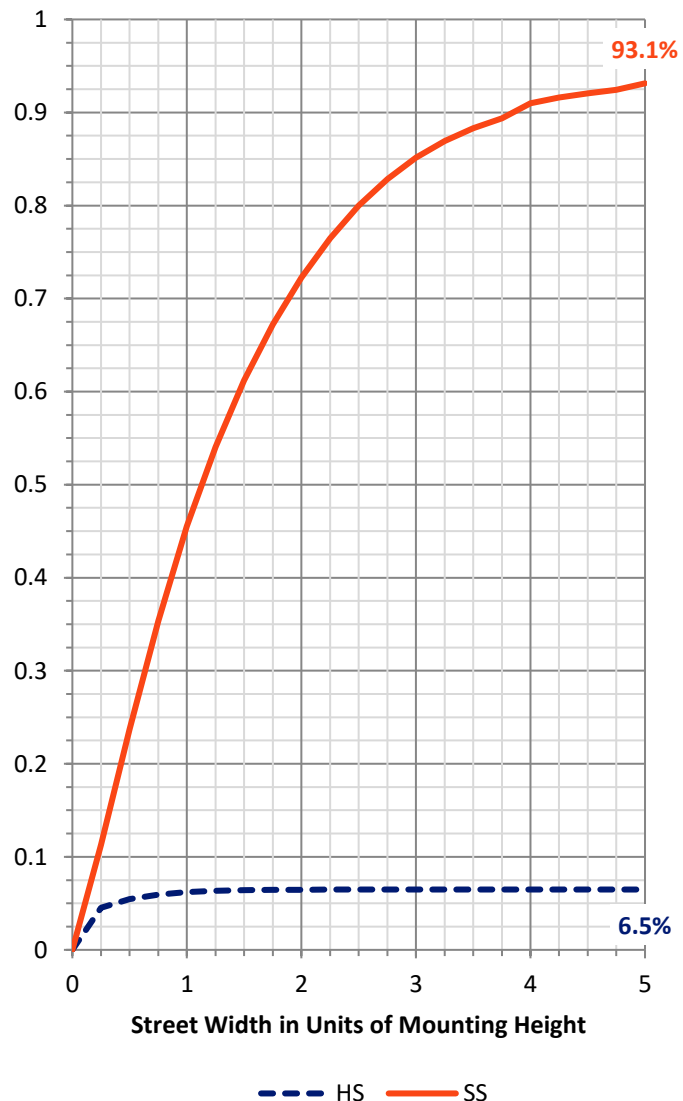
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.6	0.0	2072.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29713.8	0.0	29713.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	31786.4	0.0	31786.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	1.3
10°-20°	1099.3	3.5
20°-30°	1841.7	5.8
30°-40°	2856.3	9.0
40°-50°	4526.3	14.2
50°-60°	6634.9	20.9
60°-70°	8504.3	26.8
70°-80°	5343.9	16.8
80°-90°	556.7	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°	31786.4	100.0
0°-180°	31786.4	100.0

Coefficient of Utilization

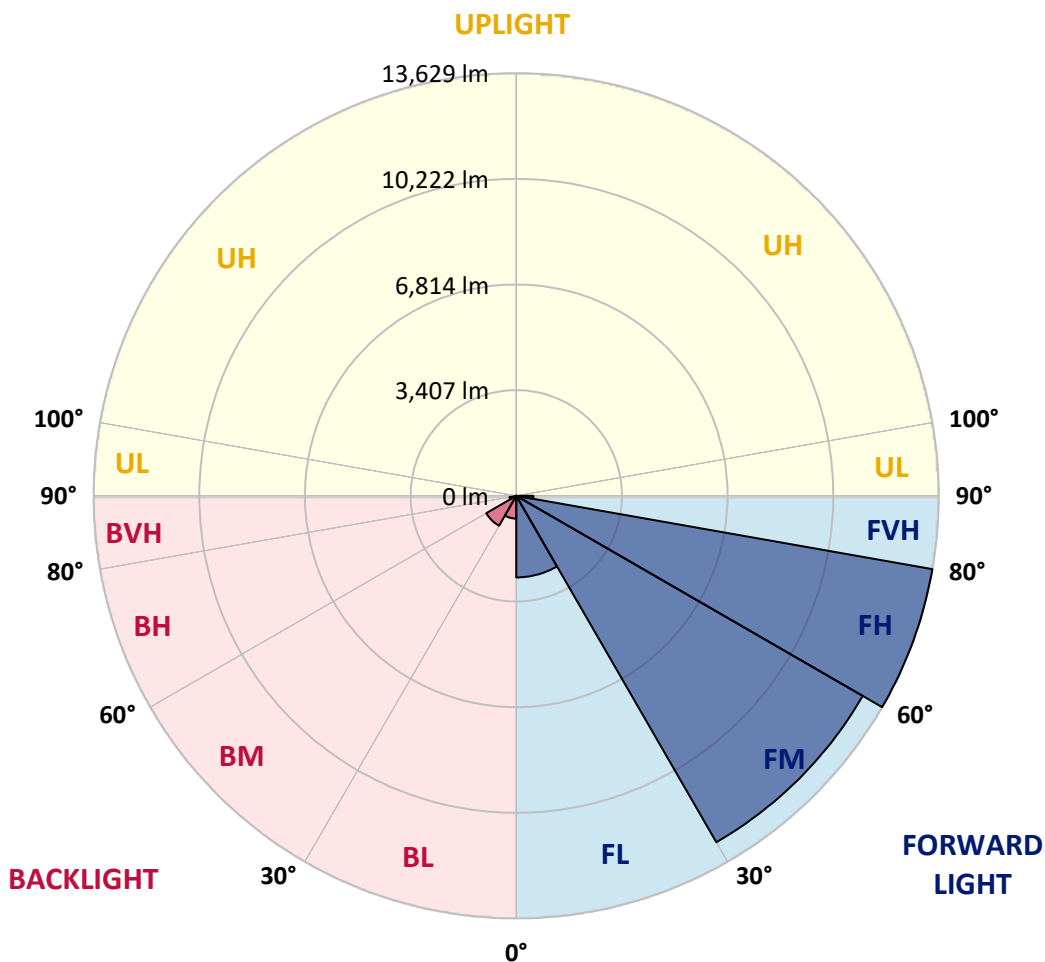


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2630.2	8.3			
FM (30°-60°)	12902.0	40.6			
FH (60°-80°)	13629.0	42.9			G5
FVH (80°-90°)	552.6	1.7			G4/750
BL (0°-30°)	733.9	2.3	B2/1000		
BM (30°-60°)	1115.4	3.5	B2/2500		
BH (60°-80°)	219.2	0.7	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8
2.5°	5730.8	5711.7	5686.0	5656.1	5570.7	5555.7	5504.4	5395.5	5265.2	5158.4	5011.0
5°	6002.1	6012.8	5993.6	5940.2	5878.3	5841.9	5777.8	5609.1	5440.3	5224.6	4983.3
7.5°	6064.1	6085.5	6061.9	6010.7	5950.9	5912.4	5861.2	5715.9	5519.4	5273.7	4942.7
10°	6057.6	6083.3	6068.3	6021.4	5972.2	5935.9	5880.4	5765.1	5606.9	5348.5	4955.5
12.5°	6047.0	6081.2	6079.0	6055.5	6014.9	5987.2	5953.0	5850.5	5703.1	5457.5	5026.0
15°	6017.1	6059.8	6098.3	6117.5	6119.6	6119.6	6076.9	5968.0	5827.0	5600.6	5117.8
17.5°	6029.9	6079.0	6175.1	6230.7	6269.2	6264.9	6220.0	6102.5	5946.6	5748.0	5213.9
20°	6108.9	6175.1	6309.7	6420.8	6459.2	6446.4	6386.6	6249.9	6072.6	5874.0	5308.0
22.5°	6303.3	6363.1	6531.9	6662.1	6689.9	6655.8	6570.3	6384.5	6224.2	6010.7	5421.2
25°	6593.8	6664.3	6820.3	6918.5	6918.5	6899.2	6779.6	6561.7	6395.1	6200.8	5568.5
27.5°	6946.2	7006.0	7159.9	7247.4	7196.2	7140.6	7021.0	6758.3	6598.1	6440.0	5745.8
30°	7303.0	7341.4	7503.7	7542.2	7488.8	7418.3	7290.1	7027.4	6886.4	6764.7	6002.1
32.5°	7640.5	7723.7	7858.3	7849.8	7777.1	7743.0	7625.5	7345.7	7266.7	7253.8	6361.0
35°	7977.9	8042.0	8161.7	8191.5	8127.4	8121.0	8035.6	7828.4	7830.6	7913.8	6920.6
37.5°	8268.5	8326.1	8467.1	8533.3	8546.1	8578.1	8544.0	8407.2	8601.7	8830.2	7661.8
40°	8511.9	8593.1	8772.6	8887.9	9020.3	9137.8	9144.2	9174.0	9564.9	9958.0	8629.4
42.5°	8702.0	8815.3	9075.8	9289.4	9592.8	9742.2	9861.9	10026.3	10684.2	11271.7	9770.1
45°	8949.8	9080.1	9404.7	9740.1	10214.3	10459.9	10626.5	11066.6	12000.0	12801.0	10940.6
47.5°	9359.9	9428.3	9759.4	10248.5	10872.2	11222.5	11547.2	12213.6	13411.9	14129.6	11914.5
50°	9887.5	9932.4	10182.2	10861.5	11669.0	12130.3	12722.0	13505.9	14877.2	15231.8	12465.6
52.5°	10470.6	10485.6	10673.6	11536.5	12561.8	13142.7	13804.9	14772.5	16071.2	16017.8	12830.9
55°	11147.7	11126.3	11286.6	12269.2	13619.1	14283.4	15054.5	16069.1	17107.2	16575.3	13040.2
57.5°	11923.1	11865.4	12021.3	13241.0	14973.3	15767.9	16551.8	17188.4	17910.3	17043.1	13140.6
60°	12734.8	12619.5	12805.2	14332.5	16568.9	17322.9	17974.4	18145.2	18756.2	17414.8	12967.6
62.5°	13382.0	13384.1	13730.2	15494.5	18209.3	18869.3	19215.4	19369.2	19484.5	17333.6	12057.7
65°	14392.3	14426.5	14979.7	17107.2	20108.2	20680.7	20917.8	20418.0	19516.6	16325.4	10690.6
67.5°	15434.7	15543.6	16556.1	19328.6	22301.9	22763.3	22457.8	20620.9	18645.1	14024.9	8106.1
70°	15774.3	15953.7	17622.0	20858.0	23617.6	23856.9	22823.1	19674.6	15586.3	9377.0	4079.8
72.5°	14454.3	14744.7	17008.9	20300.5	22778.2	22571.0	20420.1	16500.5	9908.8	3560.7	1245.3
75°	10192.9	10321.1	14136.0	16840.2	18320.4	17733.0	15532.9	10637.2	4075.5	999.6	427.2
77.5°	5263.1	5201.2	8407.2	11173.4	13065.9	12457.1	10171.6	5506.6	1544.3	416.5	264.8
80°	2721.2	2766.1	3637.6	5854.8	7975.8	7339.2	5423.3	2552.5	822.3	230.7	202.9
82.5°	1525.1	1431.1	2091.1	2556.8	3729.4	2924.2	2080.5	1807.1	358.9	138.8	192.3
85°	277.7	290.5	1147.0	1382.0	1294.4	822.3	670.7	1206.8	104.7	76.9	134.6
87.5°	4.3	4.3	222.1	397.3	252.0	115.4	211.4	173.0	21.4	29.9	23.5
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°	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8	4959.8
2.5°	4936.2	4855.1	4703.5	4553.9	4363.9	4207.9	4103.2	3994.3	3883.2	3891.8	3917.4
5°	4850.8	4709.9	4410.8	4094.7	3791.4	3518.0	3248.9	3007.5	2909.2	2819.5	2823.7
7.5°	4765.4	4566.7	4128.9	3633.3	3174.1	2708.4	2370.9	2093.2	1945.9	1834.8	1802.8
10°	4726.9	4464.2	3870.5	3189.1	2537.5	2029.2	1595.5	1369.1	1194.1	1138.5	1153.4
12.5°	4744.1	4413.0	3637.6	2787.5	2012.1	1414.1	1110.7	995.4	956.9	950.5	946.2
15°	4776.0	4376.6	3409.1	2343.2	1478.1	1050.9	933.4	912.1	907.8	903.5	905.7
17.5°	4818.8	4344.6	3165.5	1926.6	1134.2	918.5	884.3	873.6	871.4	871.4	871.4
20°	4861.5	4308.3	2894.3	1555.0	946.2	867.2	845.9	839.5	837.3	837.3	835.2
22.5°	4910.7	4276.2	2618.7	1221.8	871.4	830.9	811.6	807.4	805.3	803.2	803.2
25°	4981.2	4235.7	2326.1	999.6	824.5	796.8	777.5	773.2	771.1	762.5	764.7
27.5°	5075.1	4205.8	2025.0	863.0	781.8	754.0	741.2	734.8	730.5	724.1	726.2
30°	5203.3	4180.1	1704.5	788.2	732.7	709.1	696.3	692.1	687.8	681.4	681.4
32.5°	5425.5	4190.8	1367.0	728.4	687.8	660.0	647.2	642.9	638.7	632.3	632.3
35°	5758.7	4252.8	1093.6	677.1	634.4	606.6	593.8	593.8	587.4	578.9	576.8
37.5°	6303.3	4410.8	877.9	628.0	583.1	557.5	542.5	538.2	531.8	519.1	516.9
40°	6946.2	4656.4	739.1	578.9	536.1	510.5	497.7	484.8	467.8	455.0	452.8
42.5°	7753.7	4908.5	640.8	529.7	491.3	467.8	452.8	431.4	405.9	388.7	386.6
45°	8595.3	5139.2	574.6	484.8	448.6	429.3	412.3	378.0	346.1	324.7	322.5
47.5°	9223.2	5181.9	521.2	442.1	412.3	393.0	369.5	326.8	284.1	264.8	258.4
50°	9520.1	4974.8	465.7	399.4	375.9	354.6	324.7	275.5	228.6	205.0	200.7
52.5°	9624.7	4615.9	420.8	361.0	339.6	314.0	277.7	222.1	179.4	155.9	153.8
55°	9582.1	4163.0	380.2	324.7	296.9	267.0	230.7	177.3	132.5	113.2	108.9
57.5°	9357.8	3586.4	339.6	288.4	254.2	224.3	183.7	132.5	89.7	72.7	70.5
60°	8753.3	2800.3	299.1	247.8	215.7	183.7	145.2	94.0	55.5	40.6	40.6
62.5°	7732.3	2078.3	260.6	207.2	181.6	147.3	102.5	59.8	29.9	21.4	19.3
65°	6461.4	1533.6	217.9	175.2	151.6	115.4	72.7	36.3	15.0	6.4	4.3
67.5°	4509.1	946.2	181.6	143.1	123.9	83.3	44.8	15.0	6.4	0.0	0.0
70°	2048.4	450.7	138.8	108.9	94.0	59.8	23.5	8.6	4.3	0.0	0.0
72.5°	636.6	237.1	98.2	79.1	64.1	38.4	12.8	6.4	4.3	0.0	0.0
75°	294.8	151.6	62.0	42.7	36.3	19.3	8.6	4.3	2.1	0.0	0.0
77.5°	220.0	117.5	36.3	23.5	19.3	12.8	6.4	4.3	2.1	0.0	0.0
80°	192.3	59.8	21.4	15.0	10.7	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	173.0	29.9	12.8	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0
85°	94.0	17.1	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.1	8.6	6.4	4.3	4.3	2.1	2.1	2.1	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)