

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: P458110

Luminaire Tested: **GALN-SA9C-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47556 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

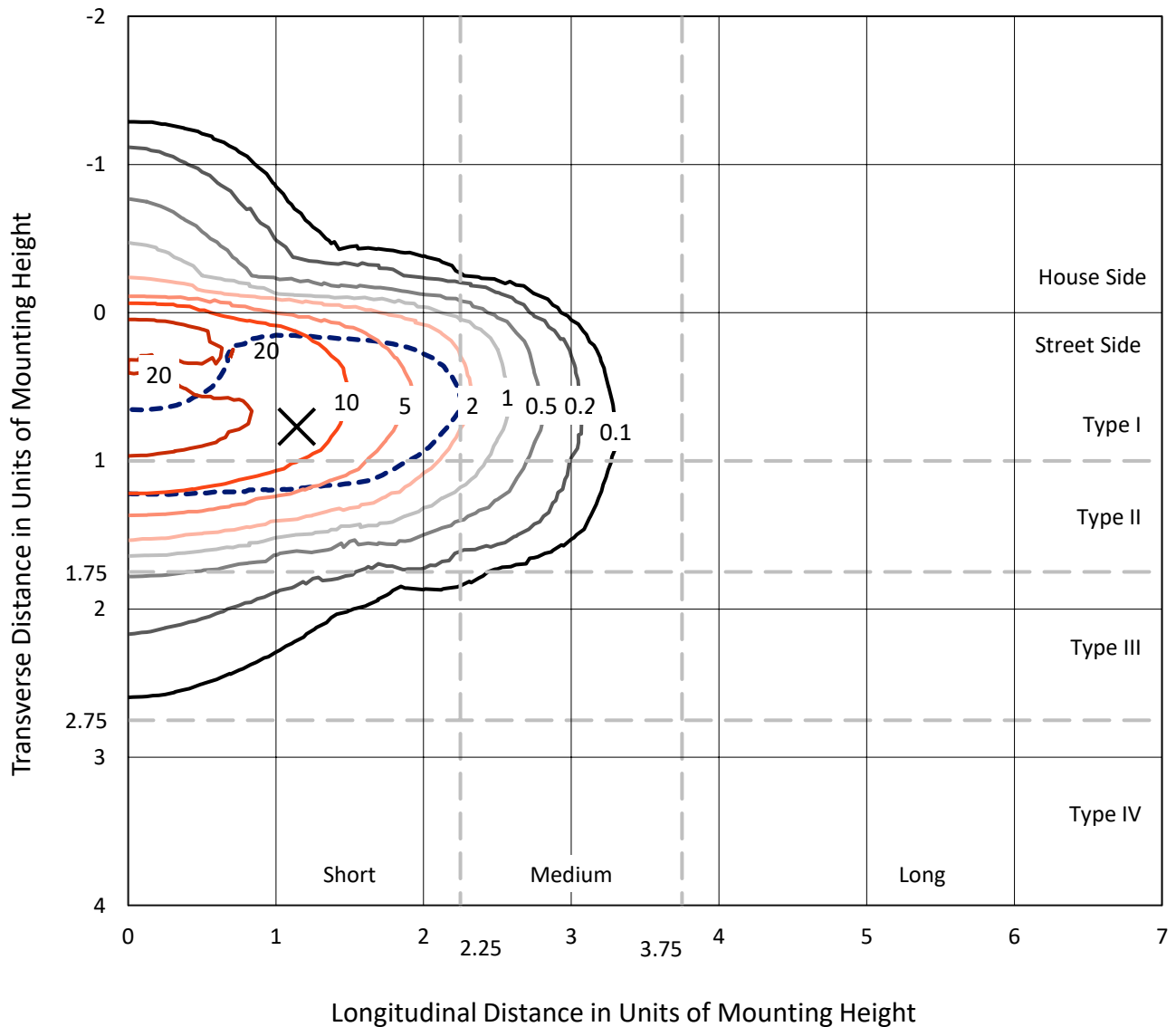
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

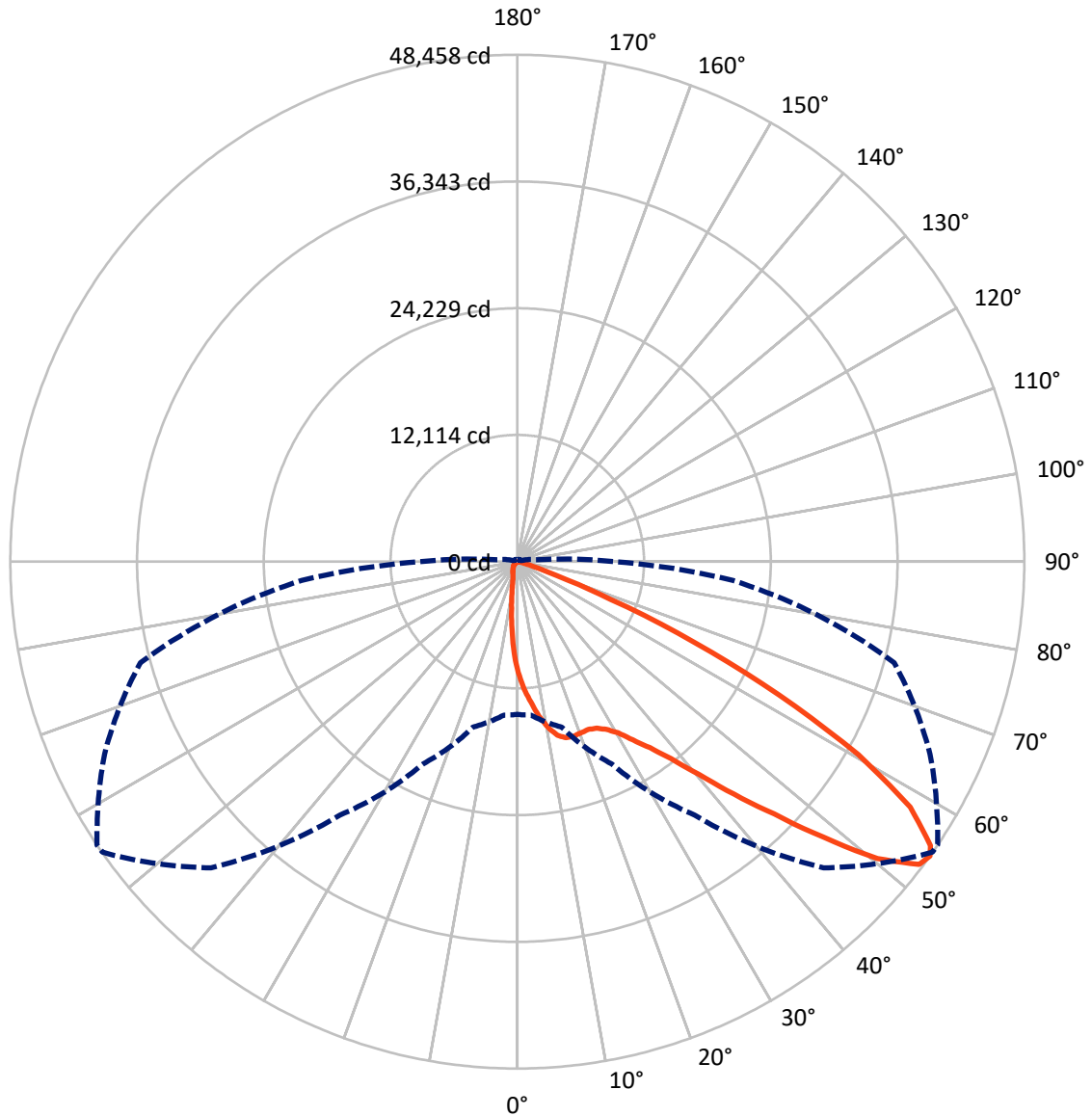
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.8	0.0	2248.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	45307.2	0.0	45307.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	47556.0	0.0	47556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.6	2.0
10°-20°	2524.0	5.3
20°-30°	4371.2	9.2
30°-40°	7545.4	15.9
40°-50°	12842.6	27.0
50°-60°	12709.4	26.7
60°-70°	5800.8	12.2
70°-80°	745.0	1.6
80°-90°	83.9	0.2
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°	47556.0	100.0
0°-180°	47556.0	100.0

Coefficient of Utilization



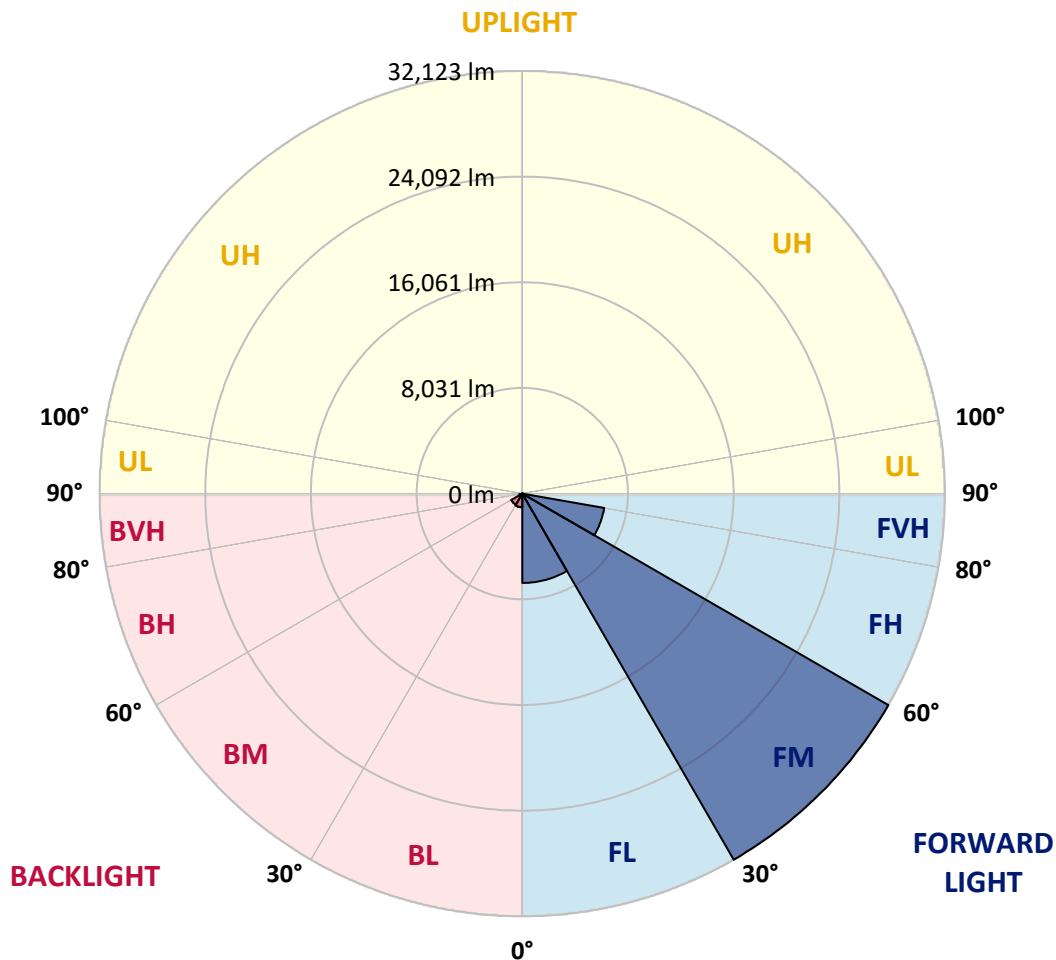
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6788.8	14.3			
FM (30°-60°)	32122.8	67.5			
FH (60°-80°)	6320.6	13.3			G3/7500
FVH (80°-90°)	74.9	0.2			G1/100
BL (0°-30°)	1040.0	2.2	B3/2500		
BM (30°-60°)	974.6	2.0	B1/1000		
BH (60°-80°)	225.2	0.5	B1/500		G1/500
BVH (80°-90°)	9.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6
2.5°	13427.6	13334.5	13206.2	13106.7	12872.5	12535.6	12179.4	12179.4	11836.1	11358.1	10870.4
5°	15487.4	15426.4	15301.3	15044.6	14781.5	14309.9	13594.4	13469.3	12856.4	11990.1	11078.9
7.5°	16324.8	16353.7	16360.1	16292.7	16167.6	15702.4	14993.3	14906.7	13928.1	12766.6	11351.7
10°	15522.7	15663.9	15801.8	16081.0	16475.6	16587.9	16186.9	16097.0	15134.5	13552.7	11646.8
12.5°	14329.1	14406.1	14483.1	14922.7	15715.2	16623.2	17043.5	17040.3	16225.4	14335.6	12022.2
15°	13774.1	13841.5	13847.9	14043.6	14730.2	16052.1	17409.3	17457.4	17290.6	15301.3	12426.5
17.5°	13889.6	13944.1	13899.2	13947.3	14306.7	15423.2	17367.6	17528.0	18153.7	16228.6	12792.3
20°	14643.6	14749.5	14576.2	14441.4	14550.5	15256.4	17226.4	17451.0	18763.3	17133.4	13126.0
22.5°	15997.6	16055.3	15837.1	15468.2	15275.6	15606.1	17187.9	17409.3	19283.1	17874.5	13318.5
25°	17502.3	17483.1	17242.5	16828.6	16424.3	16312.0	17441.4	17640.3	19713.0	18541.9	13376.2
27.5°	19007.1	19064.9	18660.6	18147.3	17662.8	17370.8	18009.3	18156.9	20197.5	19302.3	13446.8
30°	20755.8	20662.7	20264.9	19677.7	19122.6	18715.2	18923.7	18965.4	20864.8	20309.8	13632.9
32.5°	23030.6	22773.9	22327.9	21301.2	20903.3	20213.5	20264.9	20316.2	21676.6	21307.6	13857.5
35°	26117.2	26104.3	25231.6	23848.7	22879.8	22023.1	21798.5	21840.2	22905.5	22789.9	14354.8
37.5°	29832.6	29883.9	28889.3	27496.8	25712.9	24352.5	23890.5	23896.9	24772.8	24837.0	15112.0
40°	32858.2	32993.0	32399.4	31459.3	29697.8	27570.6	26794.1	26723.6	27397.3	27317.1	16193.3
42.5°	34160.9	34286.0	34507.4	34834.6	33865.7	32110.6	30278.6	30374.8	30580.2	30018.7	17406.1
45°	33522.4	33721.3	34590.8	36612.1	37523.4	36933.0	34748.0	34411.1	33541.6	32954.5	18625.3
47.5°	30862.5	31347.0	32800.5	36166.2	39355.4	41351.1	39791.8	39345.8	36506.3	35097.7	19401.8
50°	26489.3	26518.2	28542.8	32845.4	38405.7	44139.3	44941.4	44607.7	39268.8	36300.9	19793.2
52.5°	19202.8	19834.9	21689.4	26672.2	34292.4	43715.8	48223.7	48085.7	42117.9	36917.0	20357.9
54°	14598.7	14720.6	16369.7	21314.0	29566.3	41389.6	48425.8	48457.9	43532.9	37289.1	20691.6
55°	11967.7	11675.7	13408.3	18156.9	26341.7	39332.9	47764.9	47918.9	44168.2	37481.6	20938.6
57.5°	5672.6	5675.8	7000.9	9577.4	16498.1	30541.7	43725.4	44270.8	44238.7	37812.1	21699.1
60°	2871.6	2890.9	3182.8	4421.3	8149.6	20303.4	36153.3	37452.8	40834.5	37860.2	21949.3
62.5°	2008.5	1986.1	1937.9	2127.2	3429.9	10318.5	26916.1	28045.5	34693.5	36028.2	21153.6
65°	1719.8	1671.6	1536.9	1508.0	1732.6	4110.1	16764.4	18606.1	26489.3	31196.2	18888.4
67.5°	1469.5	1450.2	1328.3	1254.5	1225.6	1790.3	8650.1	9619.1	18105.5	22424.2	14306.7
70°	1248.1	1238.5	1164.7	1071.6	991.4	1071.6	3208.5	3975.3	10090.7	12073.6	6750.7
72.5°	1013.9	1023.5	1036.3	917.6	834.2	760.4	1370.0	1594.6	4222.4	4315.4	2361.5
75°	888.8	879.1	879.1	798.9	696.2	564.7	754.0	811.7	1293.0	1200.0	548.7
77.5°	625.7	603.2	705.9	657.7	580.7	401.1	429.9	455.6	535.8	458.8	256.7
80°	433.1	433.1	452.4	590.4	523.0	292.0	263.1	282.3	317.6	272.7	147.6
82.5°	243.8	250.3	295.2	314.4	304.8	195.7	173.3	176.5	211.8	186.1	93.0
85°	28.9	48.1	170.1	166.8	125.1	86.6	96.3	99.5	131.5	115.5	54.5
87.5°	3.2	6.4	35.3	44.9	32.1	35.3	35.3	35.3	44.9	51.3	38.5
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°	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6	10565.6
2.5°	10607.3	10363.4	9782.7	9108.9	8679.0	7979.5	7389.2	6962.4	6856.6	6651.2	6712.2
5°	10594.5	10087.5	8903.6	7652.3	6317.5	5322.9	4581.7	3997.8	3741.1	3571.1	3452.3
7.5°	10600.9	9808.4	7908.9	5916.5	4321.8	3346.5	2659.8	2303.7	2066.3	1966.8	1979.6
10°	10620.1	9493.9	6753.9	4382.8	2916.5	2162.5	1742.2	1572.2	1492.0	1479.1	1475.9
12.5°	10665.0	9150.6	5650.2	3253.4	2040.6	1572.2	1411.7	1354.0	1328.3	1328.3	1318.7
15°	10713.2	8772.0	4732.5	2419.2	1572.2	1350.8	1277.0	1248.1	1232.1	1232.1	1228.9
17.5°	10713.2	8335.7	3875.9	1877.0	1354.0	1241.7	1183.9	1145.4	1132.6	1132.6	1129.4
20°	10645.8	7828.7	3115.4	1511.2	1228.9	1139.0	1081.3	1039.6	1023.5	1017.1	1013.9
22.5°	10411.6	7151.7	2480.2	1299.4	1126.2	1049.2	975.4	927.3	914.4	908.0	911.2
25°	9994.5	6388.1	1963.6	1142.2	1033.1	940.1	875.9	840.6	827.8	827.8	831.0
27.5°	9564.5	5589.2	1556.1	1023.5	920.8	837.4	786.1	763.6	760.4	770.0	773.2
30°	9166.7	4787.1	1260.9	927.3	821.4	750.8	715.5	709.1	709.1	712.3	715.5
32.5°	8723.9	4084.4	1055.6	843.8	741.2	680.2	661.0	661.0	667.4	667.4	673.8
35°	8444.8	3481.2	927.3	763.6	680.2	628.9	616.0	619.2	628.9	641.7	648.1
37.5°	8294.0	2999.9	843.8	699.5	622.4	587.2	574.3	580.7	603.2	625.7	628.9
40°	8306.8	2637.4	776.5	644.9	577.5	539.0	529.4	548.7	571.1	593.6	596.8
42.5°	8448.0	2367.9	712.3	580.7	539.0	484.5	481.3	500.5	510.2	532.6	535.8
45°	8614.8	2172.2	644.9	513.4	468.4	420.3	423.5	439.6	452.4	487.7	494.1
47.5°	8666.1	2037.4	567.9	436.4	385.0	369.0	372.2	381.8	407.5	439.6	442.8
50°	8723.9	1954.0	494.1	369.0	327.3	324.1	327.3	333.7	349.7	362.6	359.4
52.5°	8971.0	1950.8	433.1	320.8	279.1	285.6	288.8	285.6	272.7	253.5	247.1
54°	9202.0	1960.4	404.3	298.4	256.7	266.3	263.1	247.1	215.0	195.7	186.1
55°	9388.1	1970.0	388.2	282.3	243.8	247.1	250.3	218.2	176.5	157.2	150.8
57.5°	9753.8	1947.6	349.7	247.1	215.0	202.1	198.9	144.4	96.3	83.4	77.0
60°	9570.9	1758.3	317.6	211.8	182.9	163.6	134.8	80.2	48.1	35.3	35.3
62.5°	8852.2	1492.0	282.3	173.3	150.8	125.1	70.6	44.9	22.5	12.8	9.6
65°	7918.6	1254.5	253.5	138.0	118.7	80.2	38.5	28.9	9.6	0.0	0.0
67.5°	5887.6	930.5	215.0	109.1	89.8	51.3	25.7	16.0	3.2	0.0	0.0
70°	2727.2	567.9	182.9	83.4	64.2	38.5	19.3	9.6	0.0	0.0	0.0
72.5°	782.9	356.1	150.8	61.0	44.9	32.1	16.0	6.4	3.2	0.0	0.0
75°	272.7	285.6	112.3	44.9	35.3	22.5	12.8	6.4	3.2	0.0	0.0
77.5°	163.6	231.0	70.6	38.5	28.9	19.3	12.8	6.4	3.2	3.2	0.0
80°	93.0	154.0	44.9	32.1	25.7	16.0	9.6	6.4	3.2	3.2	0.0
82.5°	51.3	73.8	35.3	28.9	22.5	16.0	9.6	6.4	3.2	3.2	3.2
85°	41.7	38.5	28.9	25.7	19.3	12.8	9.6	3.2	0.0	0.0	0.0
87.5°	32.1	25.7	25.7	25.7	19.3	12.8	9.6	3.2	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)