

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: P532685

Luminaire Tested: **GALN-SA8A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21783 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

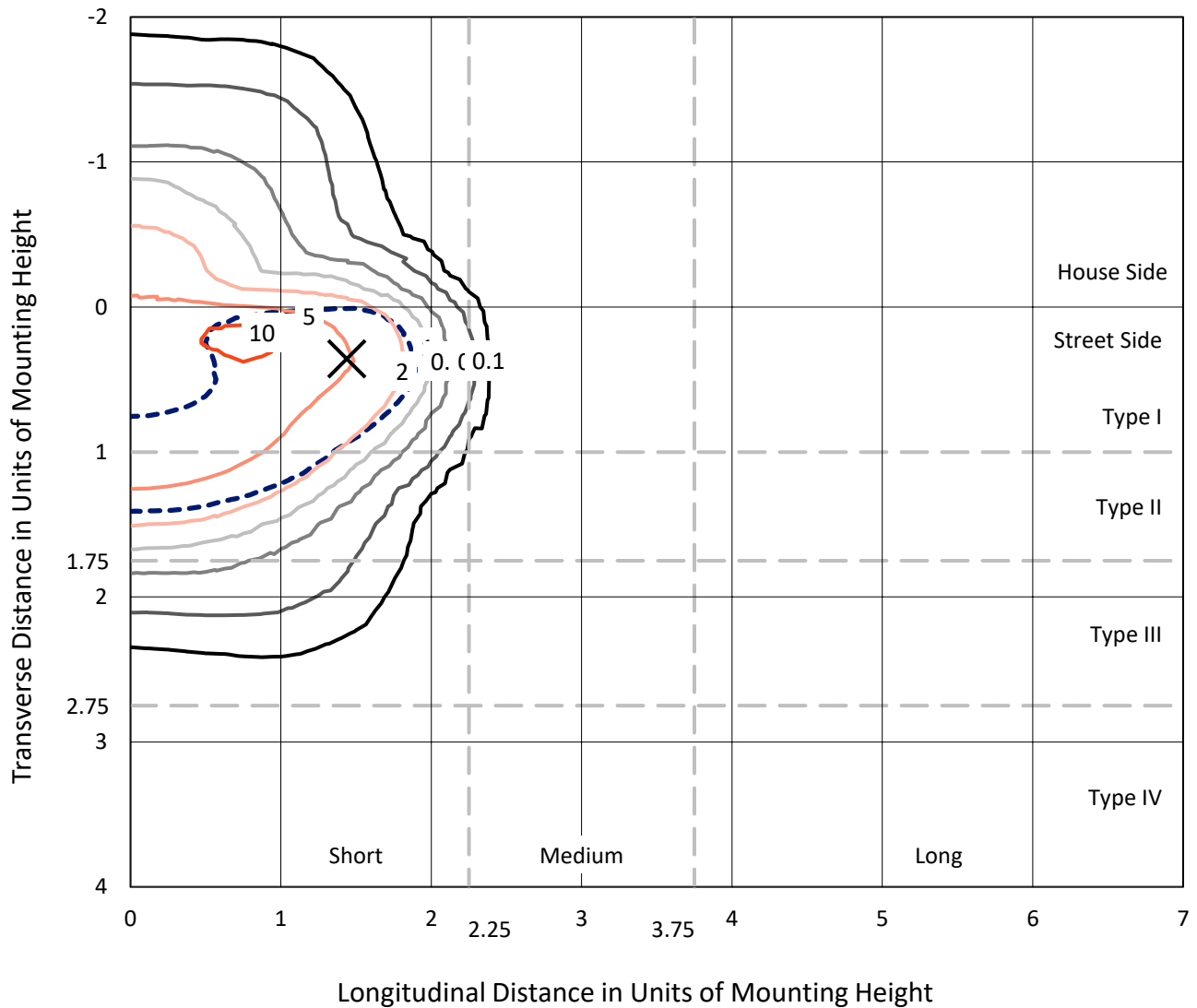
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

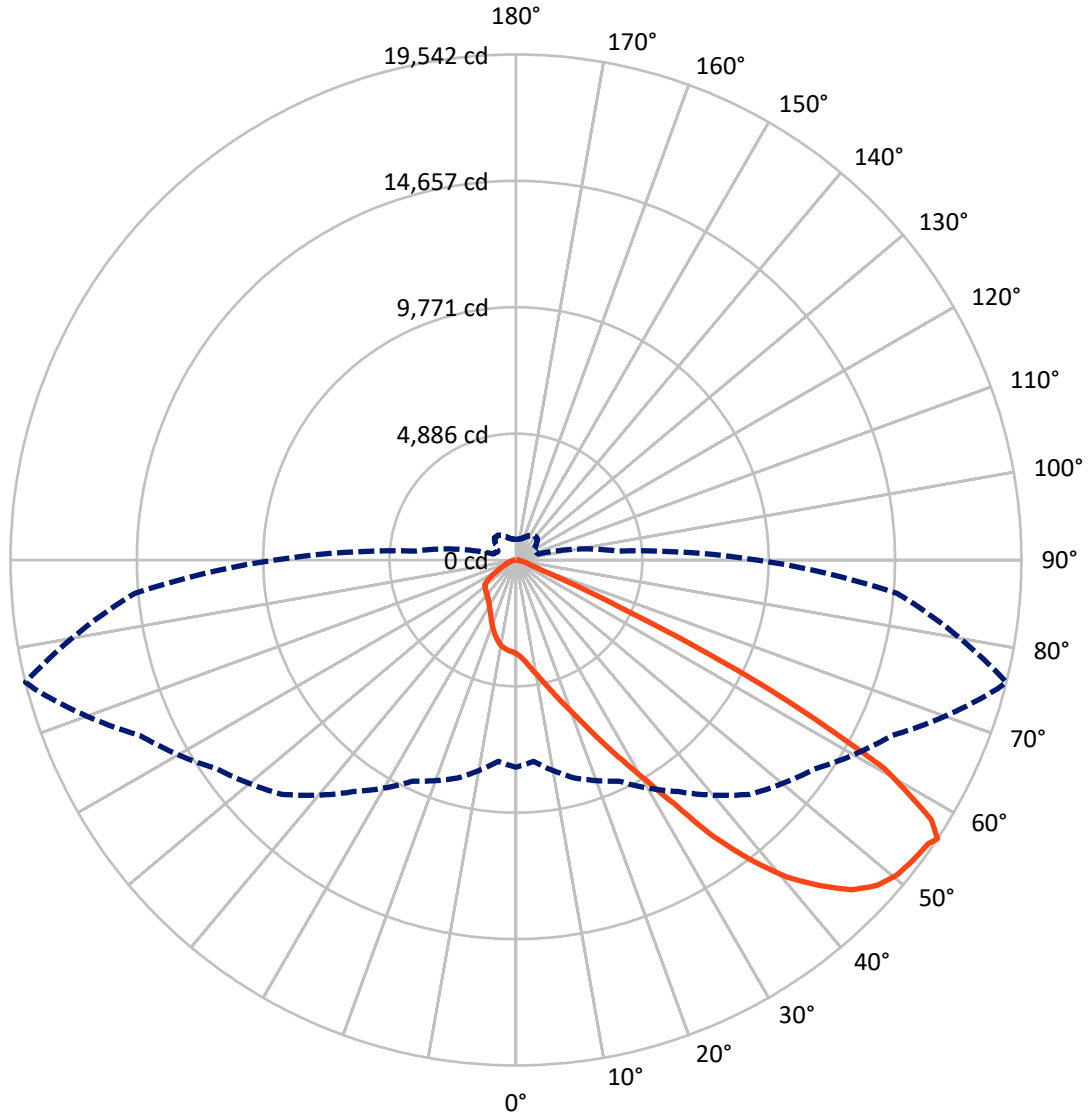
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.0	0.0	3422.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	18361.0	0.0	18361.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	21783.0	0.0	21783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.3	1.7
10°-20°	1173.4	5.4
20°-30°	2127.7	9.8
30°-40°	3669.3	16.8
40°-50°	5961.0	27.4
50°-60°	6283.1	28.8
60°-70°	1919.8	8.8
70°-80°	246.1	1.1
80°-90°	37.4	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°	21783.0	100.0
0°-180°	21783.0	100.0

Coefficient of Utilization

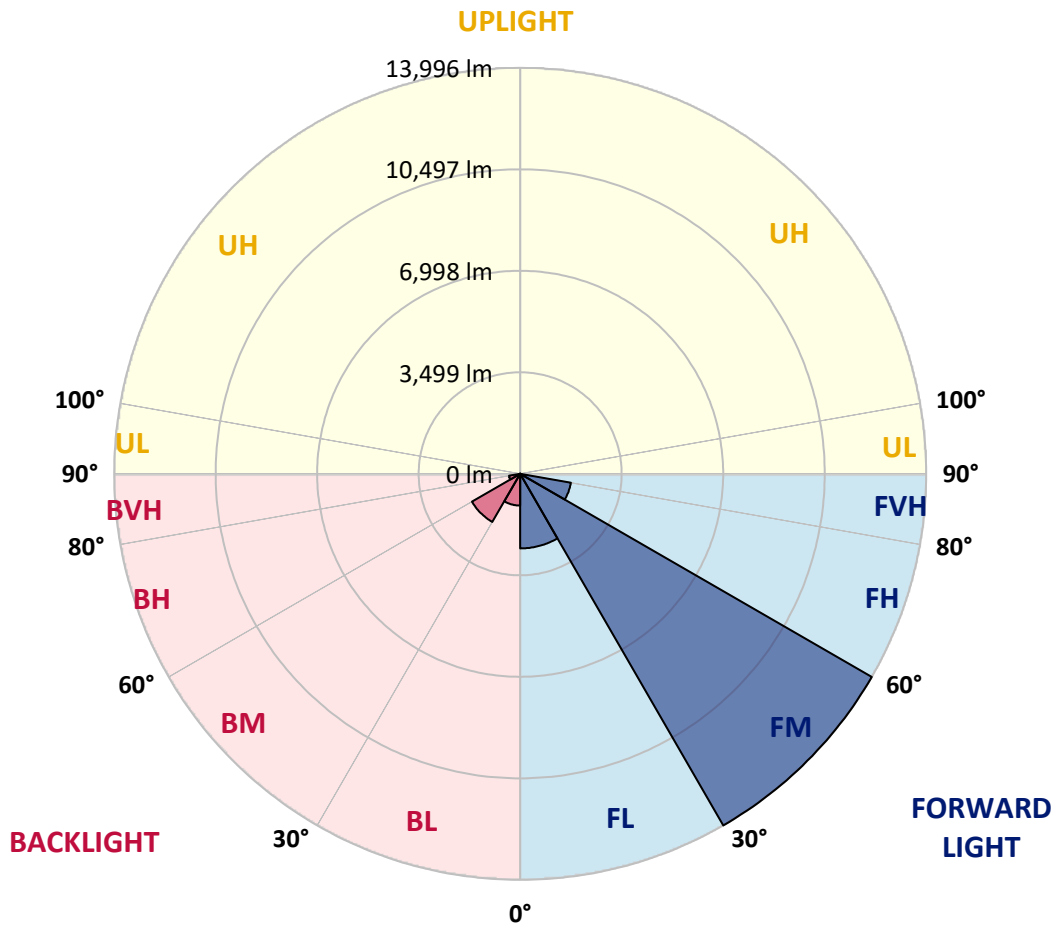


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2571.7	11.8			
FM (30°-60°)	13995.5	64.2			
FH (60°-80°)	1775.5	8.2			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1094.7	5.0	B3/2500		
BM (30°-60°)	1917.8	8.8	B2/2500		
BH (60°-80°)	390.4	1.8	B1/500		G1/500
BVH (80°-90°)	19.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8
2.5°	4175.9	4079.5	4083.6	4075.5	4063.5	4019.3	3886.8	3866.7	3778.4	3754.3	3674.0
5°	4677.8	4593.5	4641.7	4569.4	4501.1	4461.0	4244.2	4143.8	4003.3	3951.1	3838.6
7.5°	4991.0	4950.9	4934.8	4938.8	4874.6	4774.2	4677.8	4457.0	4268.3	4228.1	3991.2
10°	5143.6	5119.5	5143.6	5131.5	5159.7	5171.7	5003.1	4870.6	4593.5	4525.2	4155.8
12.5°	5179.7	5227.9	5248.0	5300.2	5368.5	5484.9	5472.8	5292.2	4922.8	4878.6	4408.8
15°	5268.1	5308.2	5288.1	5372.5	5501.0	5697.7	5802.1	5774.0	5376.5	5296.2	4701.9
17.5°	5348.4	5276.1	5344.4	5513.0	5641.5	5942.6	6195.6	6312.0	5870.4	5778.0	4970.9
20°	5456.8	5436.7	5424.7	5509.0	5737.9	6139.4	6641.3	6854.1	6424.5	6328.1	5356.4
22.5°	5786.0	5790.1	5782.0	5657.6	5822.2	6275.9	7030.8	7556.8	7087.0	7006.7	5794.1
25°	6219.7	6167.5	6127.3	6027.0	6006.9	6400.4	7424.3	8416.1	7882.0	7825.8	6267.9
27.5°	6677.4	6677.4	6557.0	6464.6	6336.1	6709.6	7785.7	9251.2	8841.7	8765.4	6681.5
30°	7175.3	7203.4	7187.4	6990.6	6910.3	7046.8	8155.1	10319.3	9941.9	9845.5	7364.1
32.5°	7910.1	7849.9	7918.2	7753.5	7516.6	7637.1	8737.3	11275.0	11371.3	11234.8	8259.5
35°	8881.8	8845.7	8801.5	8532.5	8251.4	8347.8	9560.4	12451.4	13166.2	13097.9	9162.9
37.5°	9753.2	9733.1	9696.9	9512.2	9187.0	9303.4	10496.0	13676.1	14916.8	14692.0	10439.8
40°	10668.6	10777.1	10660.6	10496.0	10198.9	10455.8	11596.2	14402.9	16390.4	16117.4	11415.5
42.5°	11909.4	11825.0	11877.2	11576.1	11415.5	11696.6	12700.4	15129.6	17534.8	17209.6	12451.4
45°	13230.4	13234.4	13093.9	12997.5	12579.9	12885.1	13379.0	15531.2	18446.3	18193.3	13234.4
47.5°	14077.6	14073.6	14226.2	14378.8	13949.1	13648.0	13840.7	15912.6	18916.1	18799.6	13519.5
50°	13945.1	13985.3	14182.0	14752.2	14977.1	14571.5	14274.4	15800.2	19128.9	19116.8	13764.4
52.5°	12130.2	12262.7	12592.0	13415.1	14547.4	15049.3	14728.1	16009.0	19233.3	19253.3	14129.8
55°	9235.2	9307.5	9933.8	10933.7	12186.4	13905.0	14547.4	16173.6	19313.6	19349.7	14571.5
56°	8010.5	7817.8	8721.2	9431.9	10929.6	12808.8	14089.7	16045.1	19265.4	19542.4	14792.4
57.5°	6047.0	5918.5	6649.3	7536.7	8978.2	10961.8	12668.3	15438.8	18940.2	18936.1	14475.1
60°	3678.0	3549.5	4111.7	4633.7	5440.7	6749.7	8560.6	12294.8	16013.0	16350.3	11720.7
62.5°	2188.3	2268.6	2822.8	3140.0	3401.0	3537.5	4428.9	7307.8	10684.7	10925.6	7271.7
65°	1457.6	1485.7	1903.3	2425.2	2541.7	2023.7	1802.9	2959.3	4633.7	4485.1	2999.4
67.5°	899.4	963.7	1276.9	1822.9	2019.7	1477.6	855.3	1104.2	1276.9	1276.9	867.3
70°	546.1	578.2	851.2	1240.7	1385.3	951.6	622.4	622.4	614.3	602.3	518.0
72.5°	261.0	281.1	433.7	638.4	650.5	501.9	481.8	526.0	514.0	509.9	429.6
75°	112.4	120.5	152.6	200.8	228.9	212.8	293.1	377.4	389.5	377.4	309.2
77.5°	36.1	40.2	56.2	72.3	76.3	92.4	124.5	156.6	180.7	168.6	152.6
80°	4.0	8.0	16.1	36.1	56.2	72.3	92.4	104.4	116.4	116.4	108.4
82.5°	4.0	4.0	16.1	32.1	52.2	68.3	88.3	100.4	116.4	120.5	112.4
85°	0.0	4.0	12.0	28.1	44.2	44.2	40.2	40.2	28.1	28.1	28.1
87.5°	0.0	0.0	4.0	4.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8	3625.8
2.5°	3657.9	3649.9	3541.5	3473.2	3437.1	3364.8	3320.7	3288.5	3264.4	3236.3	3240.3
5°	3706.1	3678.0	3497.3	3372.8	3224.3	3144.0	3075.7	3019.5	2983.4	2975.3	2959.3
7.5°	3842.6	3694.1	3421.0	3196.2	3007.5	2927.2	2866.9	2830.8	2846.8	2810.7	2838.8
10°	3947.0	3726.2	3328.7	3003.4	2814.7	2754.5	2722.4	2750.5	2790.6	2774.6	2754.5
12.5°	4075.5	3758.3	3180.1	2818.7	2642.1	2597.9	2654.1	2706.3	2786.6	2818.7	2778.6
15°	4220.1	3794.5	2991.4	2605.9	2493.5	2529.6	2626.0	2718.4	2798.7	2838.8	2862.9
17.5°	4396.8	3782.4	2806.7	2437.3	2353.0	2457.4	2573.8	2658.1	2778.6	2838.8	2822.8
20°	4561.4	3742.3	2601.9	2268.6	2272.7	2369.0	2465.4	2601.9	2666.2	2746.5	2718.4
22.5°	4718.0	3670.0	2389.1	2152.2	2152.2	2300.8	2348.9	2437.3	2493.5	2533.7	2529.6
25°	4938.8	3533.5	2212.4	2039.8	2088.0	2184.3	2224.5	2252.6	2228.5	2260.6	2264.6
27.5°	5095.4	3392.9	2067.9	1939.4	2027.7	2100.0	2088.0	2071.9	2015.7	1971.5	1999.6
30°	5264.1	3228.3	1943.4	1871.1	1919.3	1983.6	1935.4	1887.2	1798.9	1726.6	1730.6
32.5°	5505.0	3152.0	1835.0	1790.8	1855.1	1863.1	1810.9	1738.6	1650.3	1582.0	1578.0
35°	5954.7	3103.8	1742.6	1738.6	1750.7	1754.7	1702.5	1614.1	1578.0	1521.8	1541.9
37.5°	6404.4	3079.7	1678.4	1662.3	1658.3	1662.3	1602.1	1517.8	1586.0	1582.0	1590.1
40°	6978.6	3188.1	1586.0	1566.0	1570.0	1570.0	1493.7	1469.6	1590.1	1602.1	1606.1
42.5°	7560.8	3324.7	1525.8	1461.6	1477.6	1477.6	1437.5	1409.4	1493.7	1413.4	1401.3
45°	8066.7	3525.4	1461.6	1357.2	1397.3	1417.4	1405.4	1357.2	1305.0	1168.5	1168.5
47.5°	8231.4	3702.1	1385.3	1256.8	1288.9	1377.2	1341.1	1240.7	1148.4	1035.9	1027.9
50°	8520.5	3894.8	1325.0	1140.3	1208.6	1317.0	1280.9	1180.5	1076.1	995.8	999.8
52.5°	8817.6	4115.7	1212.6	1003.8	1088.1	1268.8	1268.8	1156.4	995.8	939.6	931.5
55°	9263.3	4107.6	1011.9	823.1	971.7	1196.6	1216.6	1035.9	891.4	847.2	847.2
56°	9327.5	3922.9	911.5	770.9	919.5	1176.5	1180.5	1003.8	851.2	803.1	803.1
57.5°	8845.7	3541.5	799.0	706.7	855.3	1140.3	1144.4	975.7	819.1	750.9	742.8
60°	6805.9	2397.1	666.5	630.4	775.0	1027.9	1048.0	887.4	718.7	666.5	662.5
62.5°	3842.6	1329.1	586.2	570.2	666.5	875.3	935.6	775.0	610.3	582.2	590.2
65°	1754.7	730.8	493.9	461.8	538.0	674.6	754.9	638.4	501.9	469.8	469.8
67.5°	642.4	497.9	421.6	365.4	377.4	437.7	489.9	413.6	333.3	285.1	297.1
70°	457.7	417.6	369.4	317.2	293.1	285.1	281.1	232.9	164.6	128.5	136.5
72.5°	369.4	345.3	309.2	269.0	228.9	192.7	164.6	120.5	76.3	52.2	48.2
75°	265.0	253.0	224.9	192.7	160.6	136.5	112.4	76.3	40.2	20.1	20.1
77.5°	136.5	136.5	132.5	120.5	100.4	80.3	64.2	44.2	24.1	8.0	8.0
80°	104.4	112.4	116.4	104.4	92.4	72.3	52.2	32.1	16.1	4.0	4.0
82.5°	100.4	116.4	124.5	108.4	92.4	68.3	52.2	32.1	16.1	4.0	4.0
85°	24.1	24.1	36.1	40.2	52.2	56.2	44.2	28.1	12.0	4.0	4.0
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	4.0	4.0	4.0	4.0	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)