

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: P533407

Luminaire Tested: **GALN-SA8D-750-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-750-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36531 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

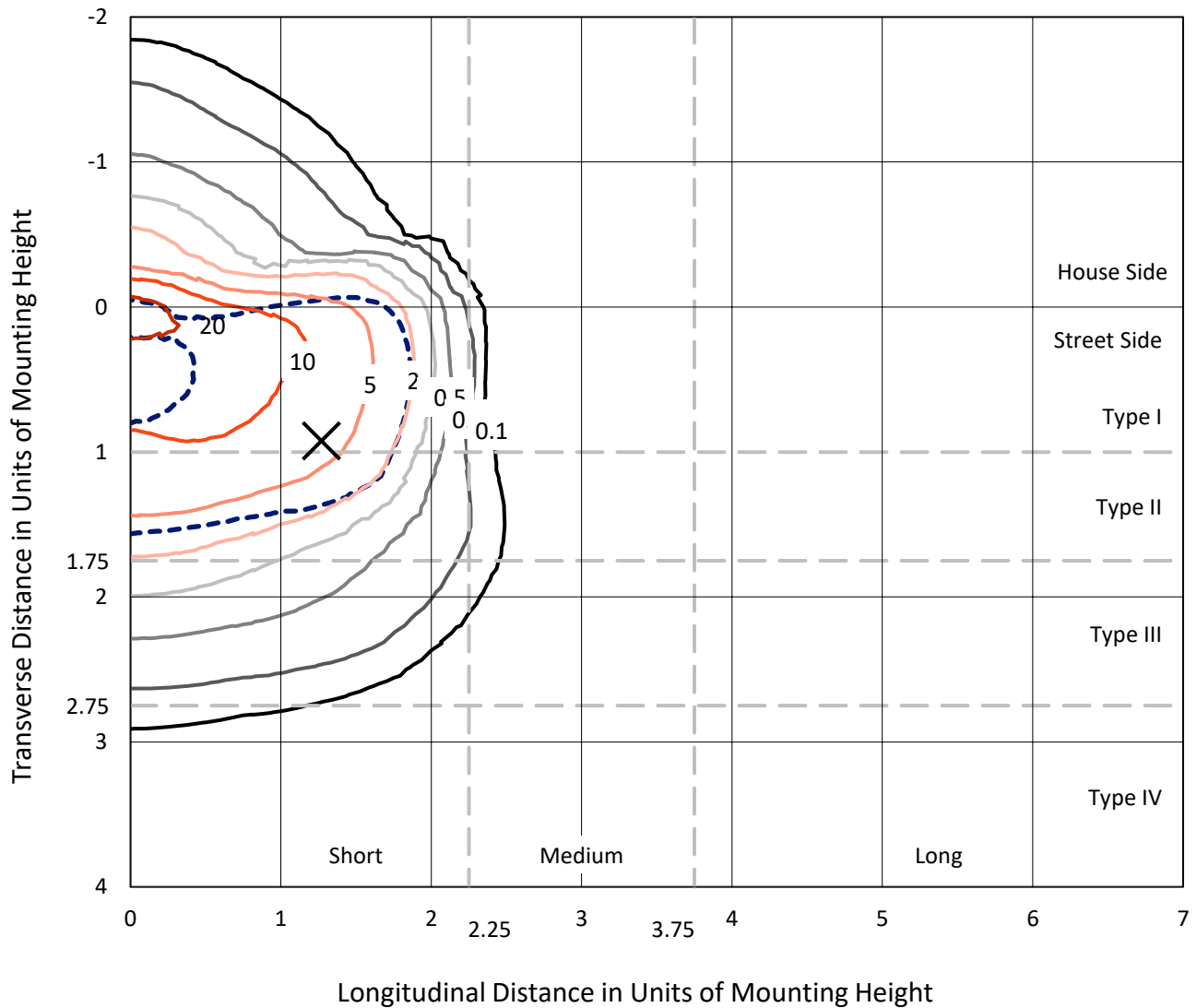
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

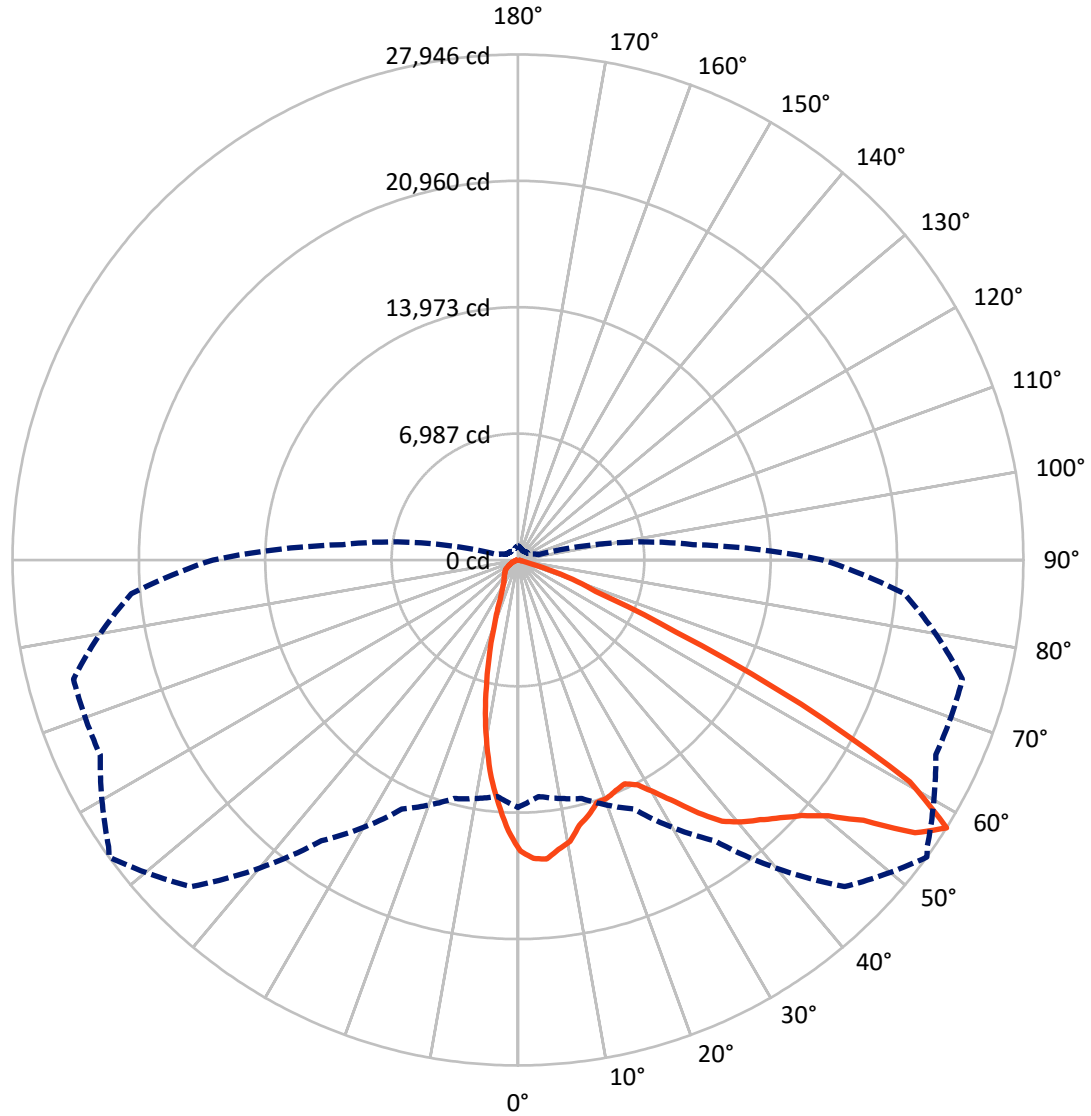
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5162.5	0.0	5162.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	31368.6	0.0	31368.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	36531.0	0.0	36531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1346.7	3.7
10°-20°	2875.1	7.9
20°-30°	3810.0	10.4
30°-40°	5537.0	15.2
40°-50°	8210.7	22.5
50°-60°	10267.1	28.1
60°-70°	4049.9	11.1
70°-80°	403.2	1.1
80°-90°	31.4	0.1
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°	36531.0	100.0
0°-180°	36531.0	100.0

Coefficient of Utilization



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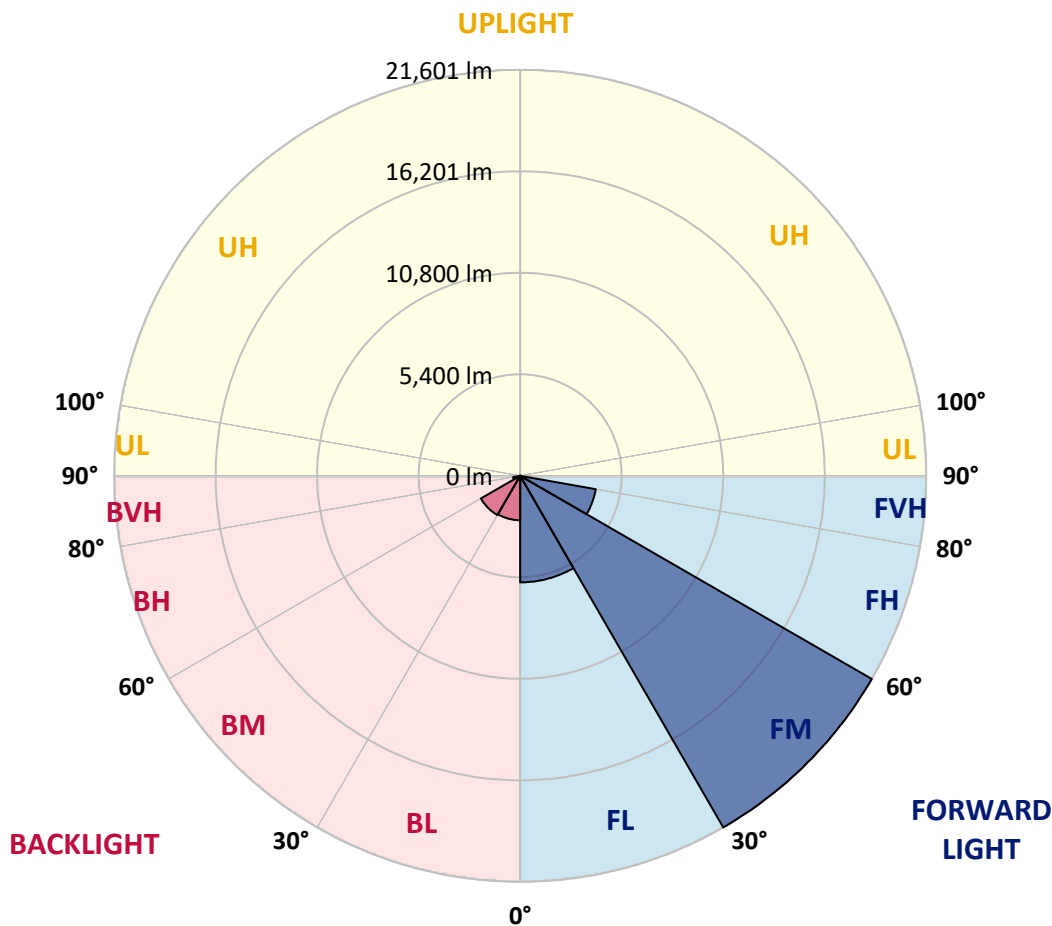
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5670.7	15.5			
FM (30°-60°)	21600.7	59.1			
FH (60°-80°)	4082.9	11.2			G2/5000
FVH (80°-90°)	14.2	0.0			G1/100
BL (0°-30°)	2361.1	6.5	B3/2500		
BM (30°-60°)	2414.1	6.6	B2/2500		
BH (60°-80°)	370.2	1.0	B1/500		G1/500
BVH (80°-90°)	17.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4
2.5°	17029.8	16853.2	16866.8	16805.7	16724.1	16785.3	16520.4	16581.5	16574.7	16214.7	15976.9
5°	16601.9	16792.1	16595.1	16758.1	16601.9	16771.7	16608.7	16486.4	16289.4	16024.5	15582.9
7.5°	15875.0	15691.6	15746.0	15949.7	15983.7	16364.1	16160.3	16316.6	16235.0	15712.0	15107.4
10°	14414.5	14373.8	14645.5	14917.2	15250.1	15657.7	15813.9	15725.6	15664.4	15467.4	14659.1
12.5°	13293.7	13409.2	13402.4	13850.7	14414.5	14645.5	15053.1	15039.5	15379.1	15012.3	14237.9
15°	12227.2	12288.4	12573.7	12852.2	13477.1	14136.0	14638.7	14706.6	15114.2	14856.1	13911.9
17.5°	11575.1	11486.8	11711.0	12043.8	12682.4	13545.1	14102.1	14265.1	14822.1	14767.8	13538.3
20°	10929.8	10929.8	11113.2	11507.2	12091.4	13062.8	14054.5	14007.0	14822.1	14665.9	13137.5
22.5°	10712.4	10821.1	10868.7	11167.5	11860.4	12695.9	13850.7	13939.0	14937.6	14618.3	12960.9
25°	11011.3	10868.7	10882.2	11120.0	11772.1	12519.3	13701.3	13898.3	15148.2	14856.1	12818.2
27.5°	11058.9	11201.5	11242.3	11405.3	11840.0	12573.7	14074.9	14475.7	15671.2	15413.1	12859.0
30°	11473.2	11615.9	11609.1	11887.6	12186.5	13015.2	14910.4	14991.9	16751.3	16112.8	13110.3
32.5°	11975.9	12125.3	12172.9	12498.9	12736.7	13823.6	15929.4	16139.9	17790.6	17213.2	13769.2
35°	12600.8	12546.5	12763.9	13089.9	13599.4	15005.5	17172.5	17525.7	18911.5	18639.7	14448.5
37.5°	13382.0	13314.1	13524.7	14054.5	14747.4	16404.9	18320.5	18551.4	19726.6	19964.4	15705.2
40°	13932.3	13959.4	14598.0	15311.2	16044.8	17736.3	19047.3	19271.5	20297.2	21200.7	16656.2
42.5°	14849.3	15019.1	15786.7	16656.2	17423.8	18734.8	19638.3	19855.7	20562.1	22192.4	17940.1
45°	16180.7	16106.0	16955.1	17926.5	18775.6	19774.2	20338.0	20263.2	20718.4	23177.4	18748.4
47.5°	17892.5	17906.1	18469.9	19298.6	20181.7	20677.6	21119.1	20854.2	21044.4	24216.7	19828.5
50°	19060.9	19162.8	19617.9	20467.0	20908.6	21669.4	22233.2	22070.2	22009.0	24841.7	20507.8
52.5°	19359.8	19665.5	19910.0	20969.7	22002.2	23204.6	23924.6	24271.1	23184.2	25052.2	21370.5
55°	17104.5	17376.3	18239.0	19692.6	22416.6	25636.4	26628.2	26635.0	24719.4	25989.7	21975.1
57.5°	13674.1	13123.9	13653.7	15195.7	18952.2	25534.5	27946.0	27626.8	25487.0	25439.4	21452.0
60°	9455.7	9319.9	9353.8	9965.2	13117.1	20310.8	24902.8	25317.2	23469.5	22049.8	16982.3
62.5°	7492.6	7377.1	7227.7	7159.7	8144.7	12655.2	17566.5	18150.6	16411.7	14299.1	10067.1
65°	5869.1	5801.1	5821.5	6093.2	6086.4	7180.1	9605.2	9367.4	7499.4	5543.0	3165.5
67.5°	3960.3	4062.2	4143.7	4965.6	5386.8	4999.6	4639.6	4503.7	2438.7	1025.7	699.7
70°	2228.1	2241.7	2330.0	3104.4	4089.3	3878.8	3199.5	3199.5	1215.9	373.6	400.8
72.5°	1215.9	1175.2	1093.7	1338.2	1820.5	1847.7	1426.5	1243.1	360.0	244.5	224.2
75°	591.0	584.2	502.7	414.4	394.0	326.1	251.3	231.0	163.0	156.2	135.9
77.5°	122.3	115.5	61.1	61.1	67.9	74.7	95.1	95.1	115.5	115.5	95.1
80°	0.0	0.0	6.8	27.2	47.6	67.9	81.5	81.5	95.1	95.1	74.7
82.5°	0.0	0.0	6.8	20.4	40.8	61.1	74.7	81.5	95.1	101.9	81.5
85°	0.0	0.0	0.0	13.6	34.0	47.6	40.8	40.8	34.0	27.2	13.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4	16092.4
2.5°	15854.6	15841.1	15528.6	15352.0	15032.7	14754.2	14530.0	14367.0	14367.0	14265.1	14170.0
5°	15406.3	15290.8	14625.1	14197.2	13592.6	13144.3	12838.6	12600.8	12227.2	12329.1	11928.3
7.5°	14849.3	14557.2	13674.1	13022.0	12186.5	11547.9	10895.8	10318.4	9761.4	9510.1	9645.9
10°	14251.5	13742.1	12553.3	11520.8	10481.5	9313.1	8552.3	7628.4	7057.8	7023.9	6874.4
12.5°	13619.8	13042.4	11595.5	10169.0	8803.6	7397.5	6235.9	5373.2	4986.0	4558.0	4639.6
15°	13144.3	12288.4	10529.0	8810.4	6996.7	5577.0	4408.6	3742.9	3376.1	3274.2	3240.2
17.5°	12628.0	11711.0	9442.1	7363.5	5488.7	4014.6	3172.3	2853.0	2710.4	2710.4	2690.0
20°	12091.4	11058.9	8362.1	6018.5	4116.5	2995.7	2540.5	2438.7	2431.9	2425.1	2425.1
22.5°	11738.1	10311.6	7383.9	4782.2	3104.4	2397.9	2207.7	2166.9	2194.1	2275.6	2275.6
25°	11364.5	9591.6	6303.8	3688.5	2404.7	2058.3	1949.6	1976.7	2044.7	2119.4	2092.2
27.5°	10984.1	9122.9	5284.9	2893.8	1969.9	1800.1	1759.4	1820.5	1895.2	1963.2	1942.8
30°	10895.8	8620.2	4320.3	2194.1	1691.4	1569.2	1596.3	1650.7	1725.4	1752.6	1779.7
32.5°	11031.7	8226.2	3539.1	1800.1	1474.1	1440.1	1440.1	1467.3	1514.8	1576.0	1555.6
35°	11418.9	8002.0	2798.7	1562.4	1351.8	1317.8	1311.0	1338.2	1365.4	1385.8	1365.4
37.5°	12009.9	7825.4	2289.2	1385.8	1270.3	1215.9	1202.3	1195.6	1222.7	1229.5	1243.1
40°	12763.9	7920.5	1942.8	1277.1	1188.8	1127.6	1086.9	1086.9	1086.9	1107.2	1114.0
42.5°	13579.0	8049.6	1677.8	1215.9	1114.0	1039.3	998.6	985.0	998.6	1025.7	1018.9
45°	14434.9	8300.9	1508.0	1120.8	1046.1	951.0	896.7	883.1	917.0	971.4	964.6
47.5°	15236.5	8661.0	1379.0	1059.7	978.2	889.9	821.9	808.4	869.5	944.2	951.0
50°	16038.1	9285.9	1331.4	1012.1	930.6	828.7	767.6	754.0	821.9	917.0	937.4
52.5°	16961.9	9958.4	1297.4	951.0	876.3	781.2	713.3	699.7	774.4	896.7	903.5
55°	17566.5	10529.0	1270.3	842.3	774.4	706.5	652.1	645.3	726.8	835.5	862.7
57.5°	16860.0	9734.2	1175.2	733.6	658.9	624.9	577.4	577.4	645.3	747.2	767.6
60°	12784.3	6405.7	835.5	591.0	557.0	536.6	516.3	516.3	570.6	645.3	652.1
62.5°	7485.8	3450.8	536.6	475.5	475.5	455.1	421.2	421.2	475.5	516.3	523.1
65°	2221.3	1107.2	434.7	407.6	400.8	366.8	332.9	326.1	366.8	387.2	380.4
67.5°	638.5	509.5	360.0	339.6	332.9	278.5	258.1	251.3	258.1	244.5	237.8
70°	380.4	346.4	278.5	285.3	251.3	203.8	183.4	176.6	163.0	142.7	129.1
72.5°	210.6	210.6	203.8	217.4	176.6	135.9	115.5	95.1	74.7	61.1	54.3
75°	129.1	135.9	142.7	149.4	115.5	88.3	74.7	47.6	27.2	13.6	13.6
77.5°	88.3	95.1	101.9	108.7	95.1	81.5	61.1	34.0	6.8	0.0	0.0
80°	67.9	74.7	88.3	95.1	101.9	108.7	81.5	34.0	6.8	0.0	0.0
82.5°	74.7	81.5	101.9	95.1	95.1	95.1	74.7	34.0	6.8	0.0	0.0
85°	13.6	20.4	34.0	34.0	47.6	61.1	47.6	13.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)