

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: P651948

Luminaire Tested: **GALN-SA6A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651948
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-SA6A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 13337.4 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

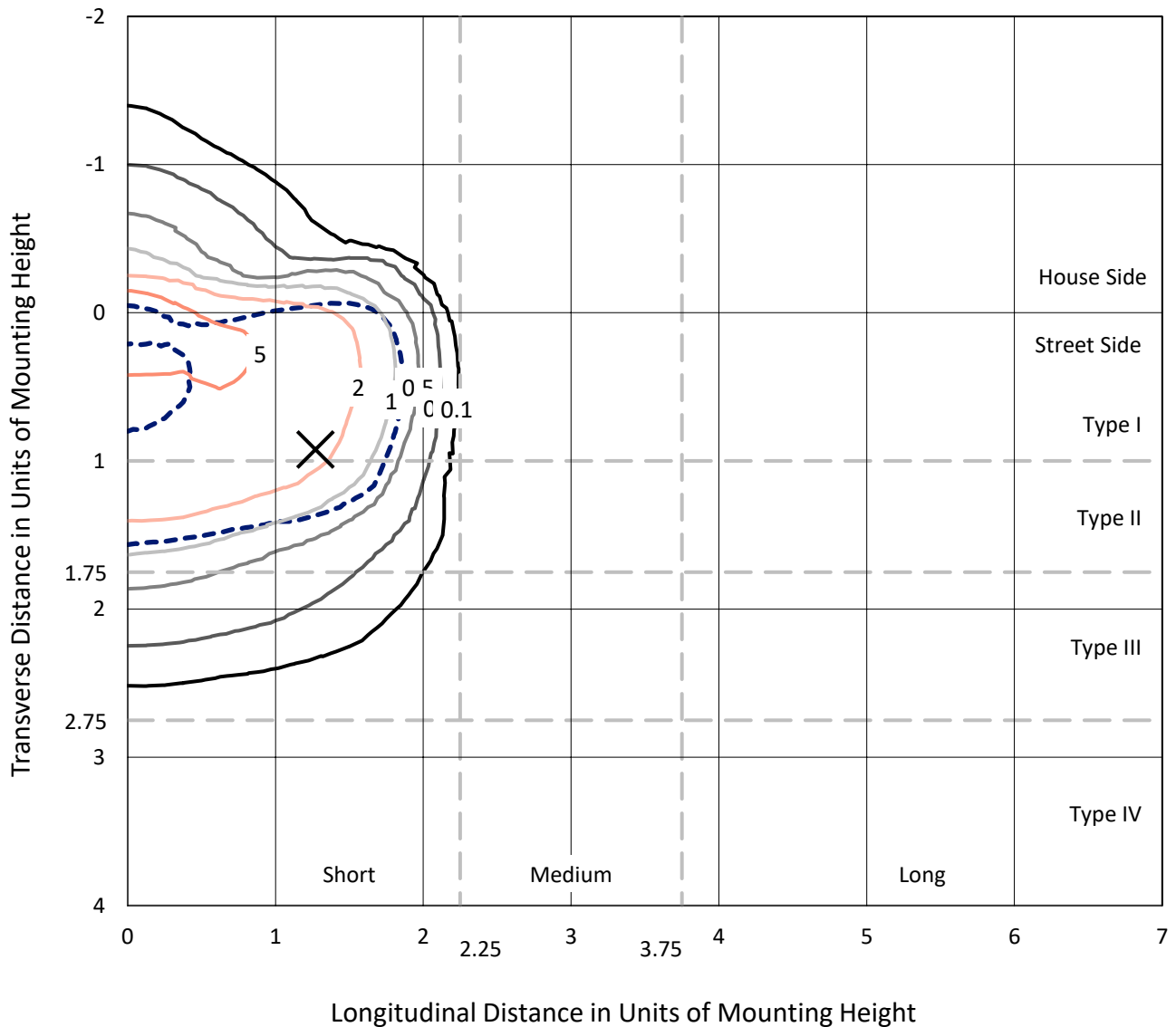
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

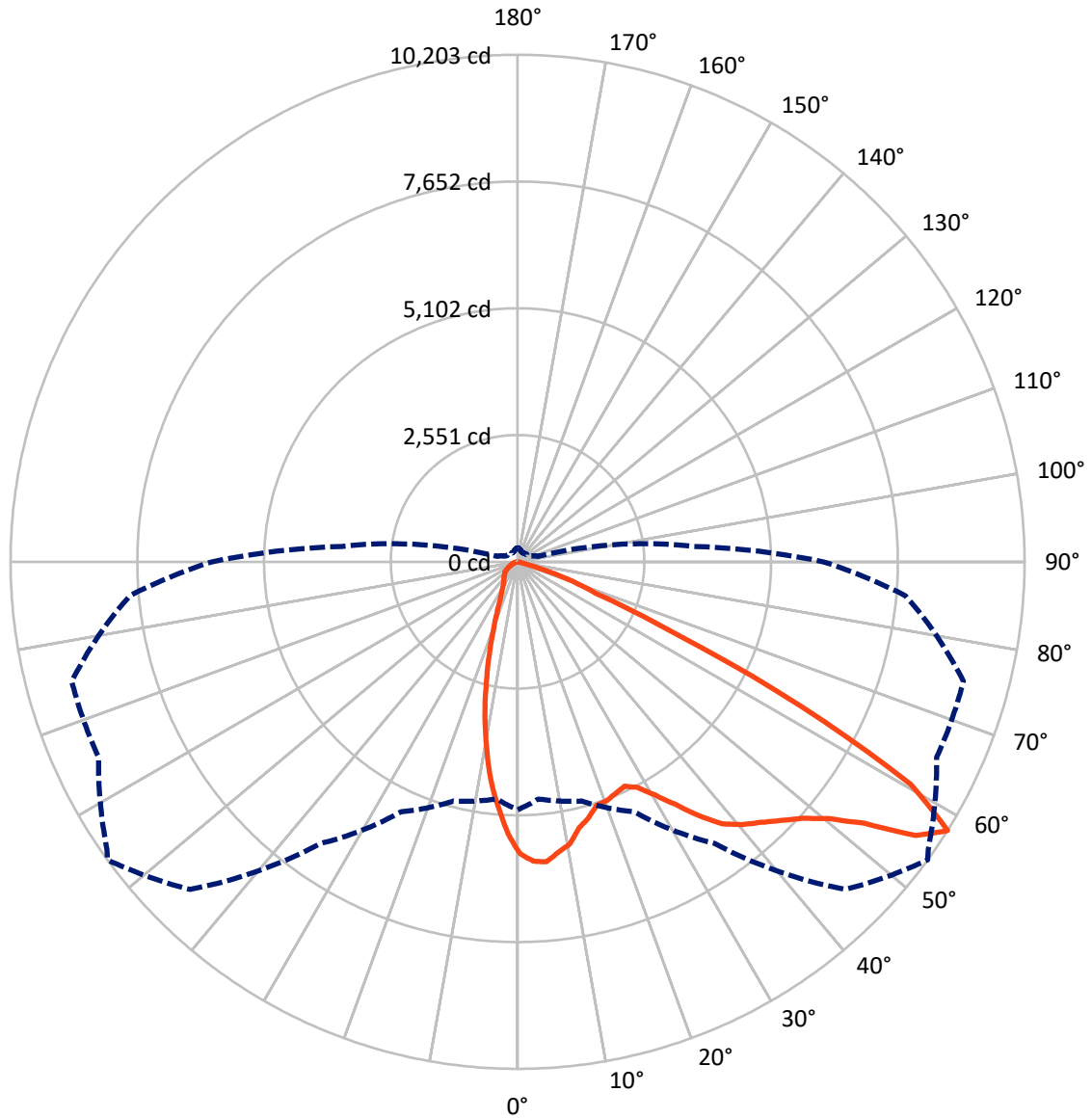
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	1884.8	0.0	1884.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11452.6	0.0	11452.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	13337.4	0.0	13337.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	3.7
10°-20°	1049.7	7.9
20°-30°	1391.0	10.4
30°-40°	2021.6	15.2
40°-50°	2997.7	22.5
50°-60°	3748.5	28.1
60°-70°	1478.6	11.1
70°-80°	147.2	1.1
80°-90°	11.4	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°	13337.4	100.0
0°-180°	13337.4	100.0

Coefficient of Utilization

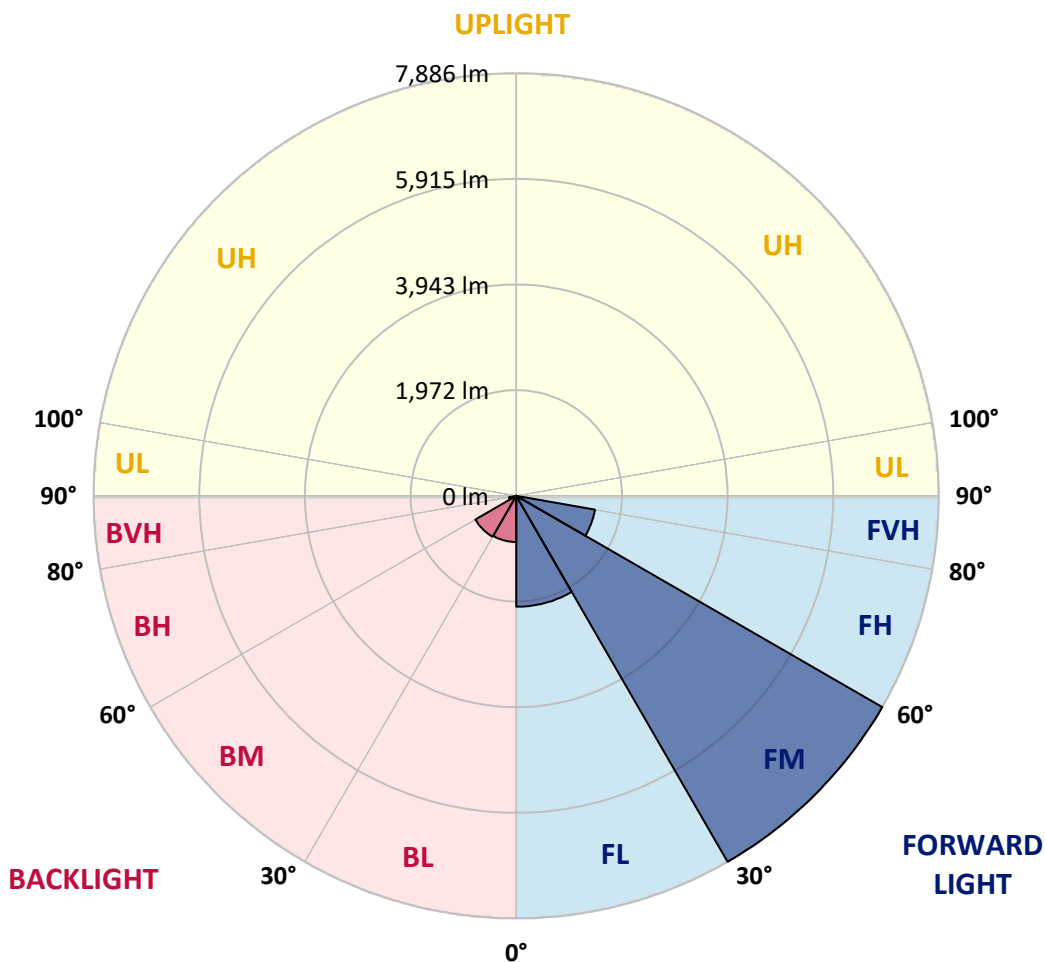


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.4	15.5			
FM (30°-60°)	7886.4	59.1			
FH (60°-80°)	1490.7	11.2			G1/1800
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	862.0	6.5	B2/1000		
BM (30°-60°)	881.4	6.6	B1/1000		
BH (60°-80°)	135.1	1.0	B1/500		G1/500
BVH (80°-90°)	6.2	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3
2.5°	6217.6	6153.1	6158.1	6135.7	6106.0	6128.3	6031.6	6053.9	6051.4	5920.0	5833.2
5°	6061.3	6130.7	6058.8	6118.4	6061.3	6123.3	6063.8	6019.1	5947.2	5850.5	5689.3
7.5°	5795.9	5729.0	5748.8	5823.3	5835.6	5974.5	5900.1	5957.1	5927.4	5736.5	5515.7
10°	5262.7	5247.8	5347.1	5446.2	5567.8	5716.6	5773.6	5741.4	5719.1	5647.1	5352.0
12.5°	4853.5	4895.7	4893.2	5056.8	5262.7	5347.1	5495.9	5490.9	5614.9	5481.0	5198.2
15°	4464.1	4486.5	4590.6	4692.3	4920.5	5161.0	5344.6	5369.4	5518.2	5423.9	5079.2
17.5°	4226.0	4193.8	4275.6	4397.2	4630.3	4945.2	5148.7	5208.1	5411.5	5391.7	4942.8
20°	3990.5	3990.5	4057.4	4201.3	4414.6	4769.2	5131.3	5114.0	5411.5	5354.5	4796.5
22.5°	3911.1	3950.8	3968.1	4077.3	4330.2	4635.3	5056.8	5089.1	5453.7	5337.2	4732.0
25°	4020.2	3968.1	3973.1	4059.9	4298.0	4570.8	5002.4	5074.3	5530.6	5423.9	4679.9
27.5°	4037.6	4089.6	4104.5	4164.0	4322.7	4590.6	5138.8	5285.0	5721.6	5627.3	4694.8
30°	4188.9	4240.9	4238.5	4340.1	4449.2	4751.8	5443.8	5473.6	6115.9	5882.7	4786.6
32.5°	4372.4	4426.9	4444.3	4563.4	4650.1	5046.9	5815.8	5892.6	6495.3	6284.5	5027.2
35°	4600.5	4580.7	4660.1	4779.2	4965.1	5478.5	6269.7	6398.6	6904.5	6805.4	5275.2
37.5°	4885.8	4861.0	4937.8	5131.3	5384.3	5989.4	6688.8	6773.1	7202.2	7288.9	5733.9
40°	5086.6	5096.5	5329.7	5590.1	5858.0	6475.5	6954.1	7036.0	7410.5	7740.3	6081.2
42.5°	5421.4	5483.5	5763.7	6081.2	6361.4	6840.1	7169.9	7249.3	7507.2	8102.4	6549.9
45°	5907.5	5880.3	6190.3	6544.9	6854.9	7219.5	7425.4	7398.1	7564.2	8462.1	6845.0
47.5°	6532.6	6537.5	6743.3	7045.9	7368.3	7549.4	7710.5	7613.8	7683.3	8841.5	7239.3
50°	6959.1	6996.3	7162.5	7472.5	7633.7	7911.5	8117.3	8057.8	8035.5	9069.7	7487.3
52.5°	7068.3	7179.9	7269.1	7656.0	8033.0	8472.0	8734.9	8861.4	8464.5	9146.5	7802.4
55°	6244.8	6344.1	6659.0	7189.8	8184.3	9359.8	9722.0	9724.4	9025.0	9488.8	8023.1
57.5°	4992.4	4791.5	4984.9	5547.9	6919.4	9322.7	10203.1	10086.4	9305.2	9287.9	7832.1
60°	3452.3	3402.7	3415.0	3638.3	4789.1	7415.4	9092.0	9243.3	8568.7	8050.3	6200.2
62.5°	2735.5	2693.4	2638.8	2614.0	2973.6	4620.4	6413.5	6626.7	5991.9	5220.6	3675.5
65°	2142.8	2118.0	2125.5	2224.6	2222.2	2621.5	3506.8	3420.0	2738.0	2023.8	1155.7
67.5°	1445.8	1483.1	1512.9	1812.9	1966.7	1825.3	1693.9	1644.3	890.4	374.5	255.4
70°	813.5	818.5	850.7	1133.4	1493.0	1416.2	1168.1	1168.1	444.0	136.4	146.3
72.5°	444.0	429.1	399.3	488.5	664.6	674.6	520.8	453.9	131.4	89.3	81.8
75°	215.8	213.3	183.5	151.3	143.8	119.1	91.8	84.4	59.5	57.0	49.6
77.5°	44.7	42.1	22.3	22.3	24.8	27.2	34.7	34.7	42.1	42.1	34.7
80°	0.0	0.0	2.4	9.9	17.3	24.8	29.8	29.8	34.7	34.7	27.2
82.5°	0.0	0.0	2.4	7.4	14.9	22.3	27.2	29.8	34.7	37.2	29.8
85°	0.0	0.0	0.0	5.0	12.4	17.3	14.9	14.9	12.4	9.9	5.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3	5875.3
2.5°	5788.5	5783.6	5669.4	5605.0	5488.5	5386.8	5304.9	5245.4	5245.4	5208.1	5173.4
5°	5624.9	5582.6	5339.6	5183.3	4962.7	4799.0	4687.3	4600.5	4464.1	4501.4	4355.0
7.5°	5421.4	5314.8	4992.4	4754.3	4449.2	4216.1	3978.0	3767.3	3563.9	3472.2	3521.7
10°	5203.2	5017.2	4583.2	4206.2	3826.8	3400.2	3122.4	2785.1	2576.8	2564.4	2509.9
12.5°	4972.6	4761.7	4233.5	3712.7	3214.2	2700.8	2276.8	1961.7	1820.3	1664.2	1693.9
15°	4799.0	4486.5	3844.1	3216.7	2554.5	2036.1	1609.6	1366.5	1232.6	1195.4	1183.0
17.5°	4610.4	4275.6	3447.3	2688.4	2003.9	1465.7	1158.2	1041.7	989.5	989.5	982.1
20°	4414.6	4037.6	3053.0	2197.4	1503.0	1093.7	927.5	890.4	887.8	885.4	885.4
22.5°	4285.6	3764.7	2695.8	1746.0	1133.4	875.5	806.0	791.1	801.1	830.8	830.8
25°	4149.2	3501.8	2301.5	1346.7	877.9	751.4	711.8	721.7	746.5	773.8	763.9
27.5°	4010.3	3330.8	1929.5	1056.5	719.2	657.2	642.4	664.6	692.0	716.8	709.3
30°	3978.0	3147.2	1577.3	801.1	617.5	572.9	582.8	602.7	629.9	639.8	649.8
32.5°	4027.6	3003.4	1292.1	657.2	538.2	525.8	525.8	535.7	553.0	575.4	567.9
35°	4169.0	2921.5	1021.8	570.5	493.5	481.1	478.7	488.5	498.5	505.9	498.5
37.5°	4384.8	2857.0	835.8	505.9	463.8	444.0	439.0	436.5	446.4	448.9	453.9
40°	4660.1	2891.8	709.3	466.3	434.0	411.7	396.8	396.8	396.8	404.3	406.7
42.5°	4957.7	2938.9	612.6	444.0	406.7	379.5	364.6	359.6	364.6	374.5	372.0
45°	5270.2	3030.6	550.6	409.2	381.9	347.2	327.4	322.4	334.8	354.6	352.2
47.5°	5562.8	3162.1	503.4	386.9	357.2	324.9	300.1	295.1	317.5	344.7	347.2
50°	5855.5	3390.2	486.1	369.5	339.8	302.6	280.2	275.3	300.1	334.8	342.3
52.5°	6192.8	3635.8	473.7	347.2	319.9	285.2	260.4	255.4	282.7	327.4	329.8
55°	6413.5	3844.1	463.8	307.6	282.7	257.9	238.1	235.6	265.3	305.0	315.0
57.5°	6155.5	3554.0	429.1	267.9	240.5	228.2	210.8	210.8	235.6	272.8	280.2
60°	4667.6	2338.7	305.0	215.8	203.4	196.0	188.5	188.5	208.3	235.6	238.1
62.5°	2733.1	1259.9	196.0	173.6	173.6	166.2	153.7	153.7	173.6	188.5	191.0
65°	811.0	404.3	158.7	148.8	146.3	133.9	121.5	119.1	133.9	141.4	138.8
67.5°	233.1	186.0	131.4	124.0	121.5	101.7	94.3	91.8	94.3	89.3	86.8
70°	138.8	126.5	101.7	104.2	91.8	74.4	66.9	64.5	59.5	52.1	47.1
72.5°	76.9	76.9	74.4	79.4	64.5	49.6	42.1	34.7	27.2	22.3	19.8
75°	47.1	49.6	52.1	54.6	42.1	32.2	27.2	17.3	9.9	5.0	5.0
77.5°	32.2	34.7	37.2	39.7	34.7	29.8	22.3	12.4	2.4	0.0	0.0
80°	24.8	27.2	32.2	34.7	37.2	39.7	29.8	12.4	2.4	0.0	0.0
82.5°	27.2	29.8	37.2	34.7	34.7	34.7	27.2	12.4	2.4	0.0	0.0
85°	5.0	7.4	12.4	12.4	17.3	22.3	17.3	5.0	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)