

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: P651343

Luminaire Tested: **GALN-SA4D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651343
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-SA4D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 15050.5 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

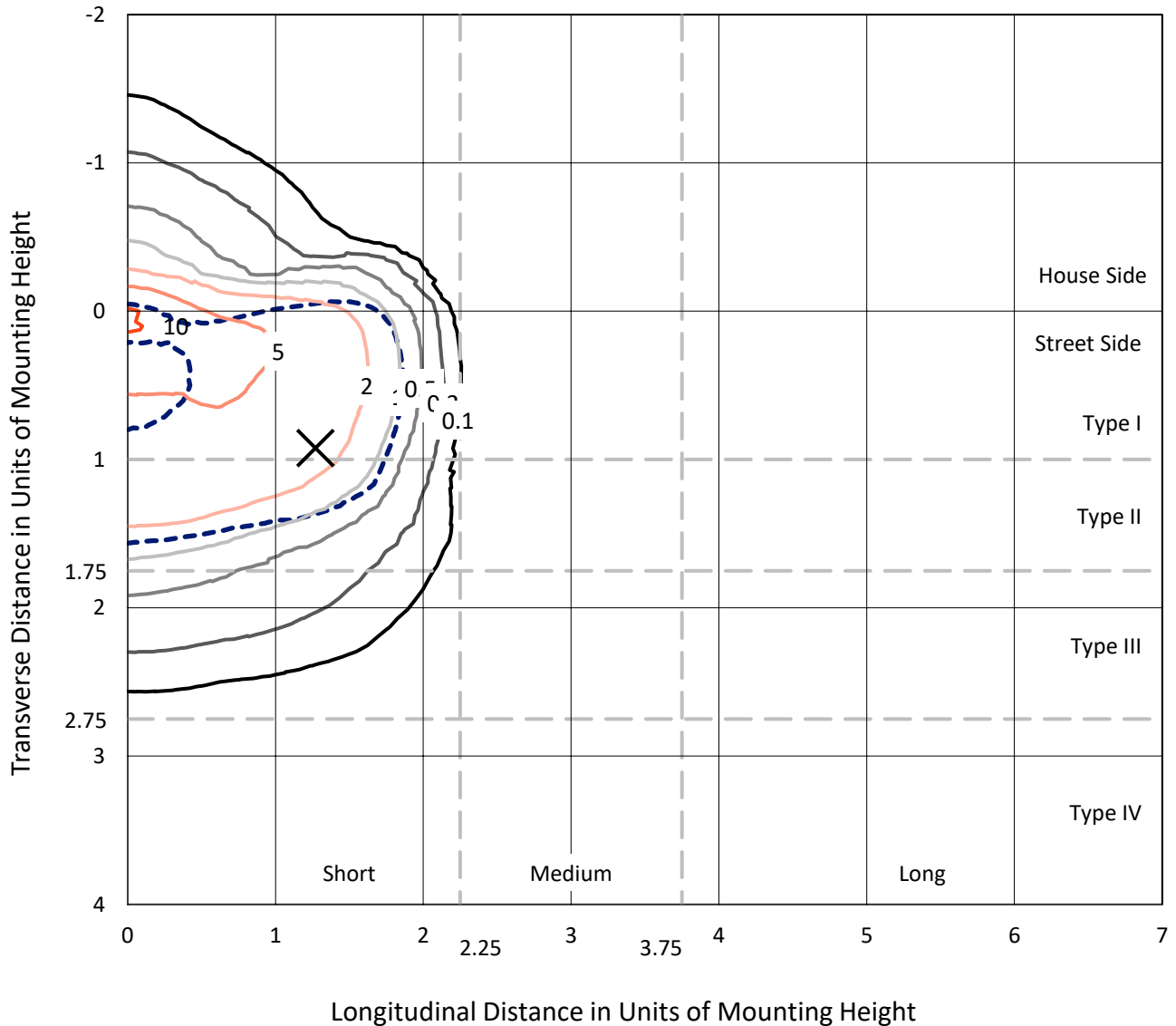
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

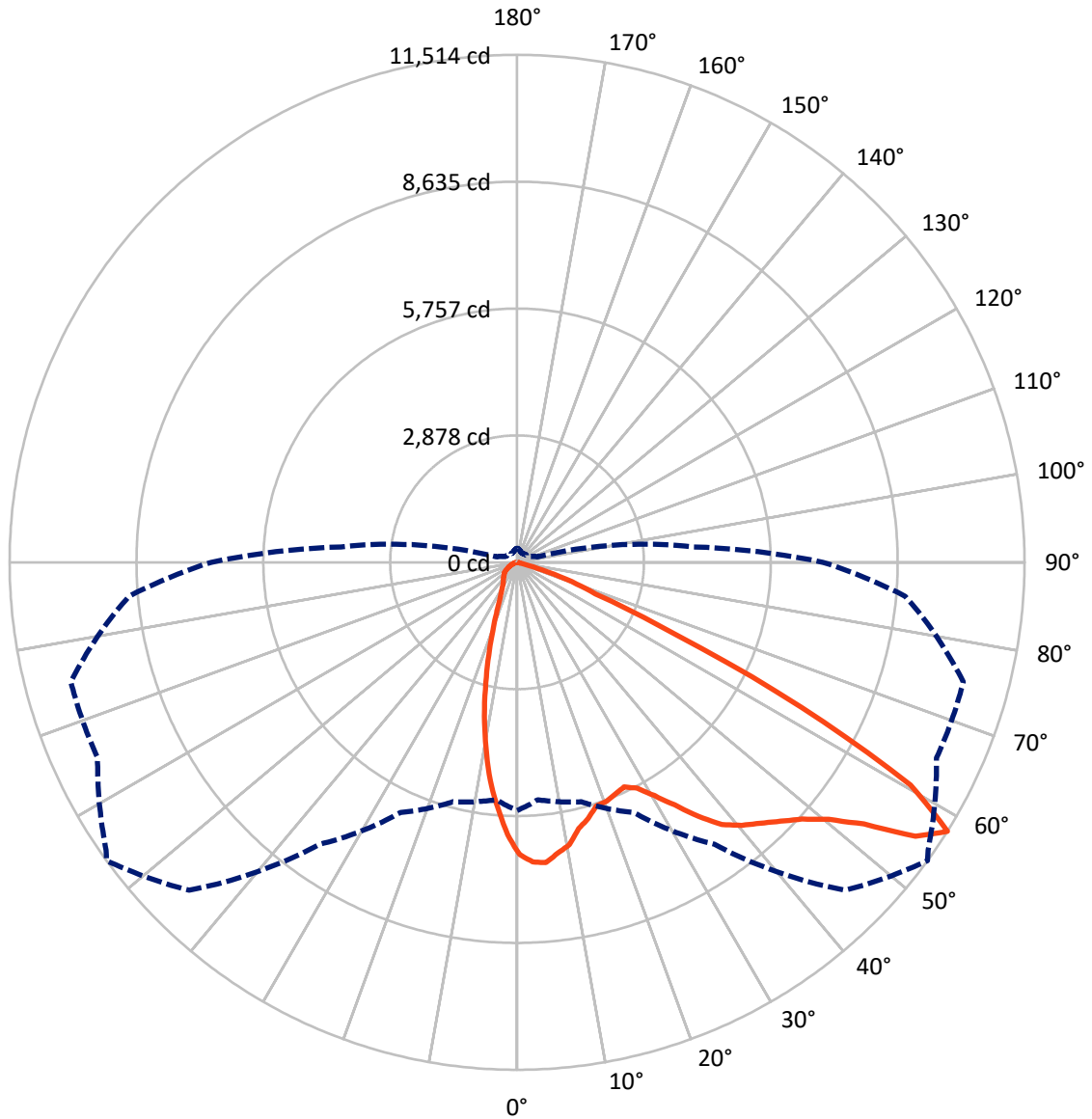
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	2126.9	0.0	2126.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12923.6	0.0	12923.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	15050.5	0.0	15050.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.8	3.7
10°-20°	1184.5	7.9
20°-30°	1569.7	10.4
30°-40°	2281.2	15.2
40°-50°	3382.7	22.5
50°-60°	4230.0	28.1
60°-70°	1668.5	11.1
70°-80°	166.1	1.1
80°-90°	12.9	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°	15050.5	100.0
0°-180°	15050.5	100.0

Coefficient of Utilization

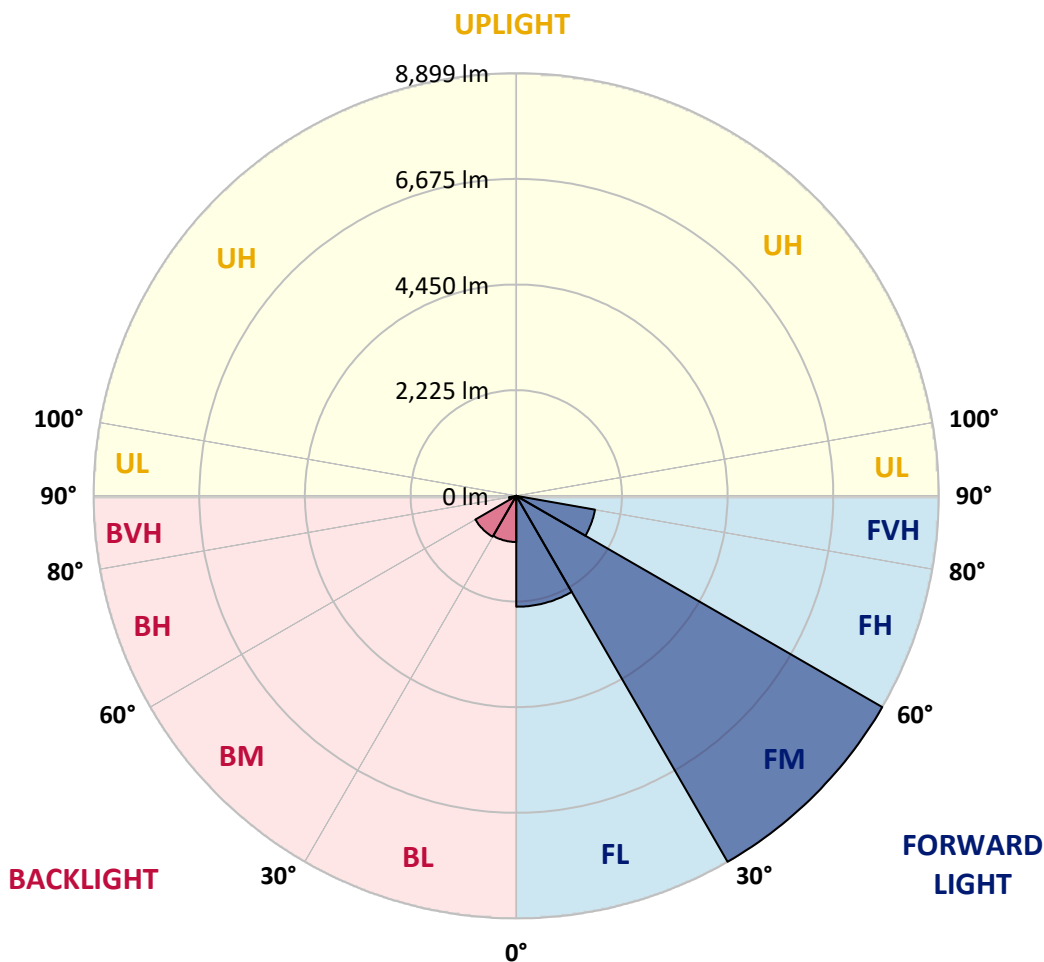


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.3	15.5			
FM (30°-60°)	8899.3	59.1			
FH (60°-80°)	1682.1	11.2			G1/1800
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	972.7	6.5	B2/1000		
BM (30°-60°)	994.6	6.6	B1/1000		
BH (60°-80°)	152.5	1.0	B1/500		G1/500
BVH (80°-90°)	7.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9
2.5°	7016.2	6943.4	6949.0	6923.8	6890.2	6915.5	6806.3	6831.4	6828.7	6680.3	6582.4
5°	6839.9	6918.2	6837.1	6904.2	6839.9	6909.8	6842.6	6792.3	6711.1	6602.0	6420.0
7.5°	6540.4	6464.9	6487.2	6571.2	6585.2	6741.9	6657.9	6722.3	6688.7	6473.3	6224.2
10°	5938.7	5921.9	6033.8	6145.8	6282.9	6450.9	6515.2	6478.8	6453.7	6372.5	6039.5
12.5°	5476.9	5524.5	5521.7	5706.4	5938.7	6033.8	6201.8	6196.2	6336.1	6185.0	5866.0
15°	5037.5	5062.7	5180.3	5295.0	5552.5	5823.9	6031.1	6059.1	6226.9	6120.6	5731.6
17.5°	4768.9	4732.5	4824.8	4962.0	5225.0	5580.5	5810.0	5877.2	6106.6	6084.2	5577.7
20°	4503.0	4503.0	4578.6	4740.9	4981.6	5381.8	5790.4	5770.8	6106.6	6042.2	5412.6
22.5°	4413.5	4458.2	4477.8	4600.9	4886.4	5230.7	5706.4	5742.8	6154.2	6022.7	5339.8
25°	4536.6	4477.8	4483.4	4581.3	4850.0	5157.9	5644.9	5726.0	6241.0	6120.6	5281.1
27.5°	4556.2	4615.0	4631.7	4698.9	4878.1	5180.3	5798.8	5963.9	6456.4	6350.1	5297.8
30°	4726.9	4785.6	4782.9	4897.6	5020.8	5362.2	6143.0	6176.6	6901.4	6638.3	5401.3
32.5°	4934.0	4995.5	5015.1	5149.5	5247.4	5695.3	6562.8	6649.5	7329.7	7091.7	5672.8
35°	5191.5	5169.0	5258.6	5393.0	5602.8	6182.2	7074.9	7220.5	7791.4	7679.4	5952.7
37.5°	5513.3	5485.3	5572.0	5790.4	6075.8	6758.7	7547.9	7643.1	8127.3	8225.1	6470.4
40°	5740.0	5751.2	6014.2	6308.1	6610.3	7307.2	7847.4	7939.7	8362.3	8734.5	6862.2
42.5°	6117.9	6187.7	6504.0	6862.2	7178.5	7718.6	8090.8	8180.4	8471.5	9143.1	7391.2
45°	6666.4	6635.6	6985.4	7385.6	7735.4	8146.9	8379.1	8348.4	8535.8	9549.0	7724.2
47.5°	7371.6	7377.2	7609.5	7950.9	8314.7	8519.1	8701.0	8591.8	8670.2	9977.1	8169.2
50°	7853.0	7895.0	8082.4	8432.3	8614.2	8927.6	9159.9	9092.7	9067.6	10234.6	8449.1
52.5°	7976.1	8102.0	8202.8	8639.4	9064.8	9560.2	9856.8	9999.5	9551.7	10321.3	8804.5
55°	7047.0	7158.9	7514.3	8113.2	9235.5	10562.0	10970.7	10973.5	10184.3	10707.6	9053.6
57.5°	5633.7	5407.0	5625.3	6260.6	7808.2	10520.1	11513.5	11382.0	10500.5	10480.9	8838.1
60°	3895.7	3839.8	3853.7	4105.6	5404.2	8367.9	10259.8	10430.5	9669.3	9084.4	6996.6
62.5°	3086.9	3039.3	2977.7	2949.7	3355.6	5213.9	7237.2	7477.9	6761.5	5891.1	4147.6
65°	2418.0	2390.0	2398.4	2510.4	2507.6	2958.1	3957.2	3859.3	3089.7	2283.7	1304.1
67.5°	1631.6	1673.6	1707.1	2045.8	2219.3	2059.8	1911.5	1855.5	1004.7	422.6	288.3
70°	918.0	923.6	959.9	1279.0	1684.8	1598.0	1318.2	1318.2	501.0	153.9	165.1
72.5°	501.0	484.2	450.6	551.4	750.0	761.2	587.7	512.2	148.4	100.8	92.3
75°	243.5	240.7	207.1	170.7	162.3	134.3	103.5	95.1	67.2	64.3	56.0
77.5°	50.4	47.6	25.1	25.1	28.0	30.8	39.2	39.2	47.6	47.6	39.2
80°	0.0	0.0	2.8	11.2	19.6	28.0	33.6	33.6	39.2	39.2	30.8
82.5°	0.0	0.0	2.8	8.4	16.8	25.1	30.8	33.6	39.2	42.0	33.6
85°	0.0	0.0	0.0	5.6	14.0	19.6	16.8	16.8	14.0	11.2	5.6
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°	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9
2.5°	6532.0	6526.4	6397.7	6324.9	6193.4	6078.7	5986.2	5919.1	5919.1	5877.2	5838.0
5°	6347.3	6299.8	6025.4	5849.2	5600.1	5415.4	5289.4	5191.5	5037.5	5079.6	4914.4
7.5°	6117.9	5997.5	5633.7	5365.0	5020.8	4757.7	4489.0	4251.1	4021.7	3918.1	3974.1
10°	5871.5	5661.6	5171.9	4746.5	4318.3	3836.9	3523.5	3142.9	2907.8	2893.8	2832.2
12.5°	5611.2	5373.4	4777.3	4189.5	3627.1	3047.7	2569.2	2213.7	2054.2	1877.9	1911.5
15°	5415.4	5062.7	4337.9	3629.8	2882.6	2297.7	1816.3	1542.1	1390.9	1349.0	1334.9
17.5°	5202.7	4824.8	3890.1	3033.7	2261.3	1654.0	1307.0	1175.5	1116.7	1116.7	1108.3
20°	4981.6	4556.2	3445.2	2479.6	1696.0	1234.2	1046.7	1004.7	1001.9	999.1	999.1
22.5°	4836.0	4248.3	3042.1	1970.2	1279.0	987.9	909.5	892.8	904.0	937.5	937.5
25°	4682.1	3951.7	2597.1	1519.7	990.7	848.0	803.2	814.4	842.4	873.2	861.9
27.5°	4525.4	3758.6	2177.3	1192.2	811.6	741.7	724.9	750.0	780.8	808.8	800.4
30°	4489.0	3551.5	1779.9	904.0	696.9	646.5	657.7	680.0	710.8	722.1	733.3
32.5°	4545.0	3389.1	1458.1	741.7	607.3	593.3	593.3	604.5	624.1	649.3	640.9
35°	4704.5	3296.8	1153.0	643.7	556.9	542.9	540.2	551.4	562.5	571.0	562.5
37.5°	4948.0	3224.1	943.2	571.0	523.4	501.0	495.3	492.6	503.8	506.5	512.2
40°	5258.6	3263.2	800.4	526.1	489.8	464.6	447.7	447.7	447.7	456.2	459.0
42.5°	5594.5	3316.4	691.3	501.0	459.0	428.2	411.4	405.8	411.4	422.6	419.8
45°	5947.1	3419.9	621.3	461.8	431.0	391.8	369.5	363.8	377.8	400.2	397.4
47.5°	6277.3	3568.3	568.1	436.6	403.0	366.6	338.7	333.0	358.3	389.0	391.8
50°	6607.6	3825.7	548.5	417.0	383.4	341.4	316.2	310.7	338.7	377.8	386.2
52.5°	6988.2	4102.8	534.5	391.8	361.0	321.9	293.8	288.3	319.1	369.5	372.2
55°	7237.2	4337.9	523.4	347.0	319.1	291.1	268.7	265.8	299.5	344.2	355.4
57.5°	6946.2	4010.5	484.2	302.3	271.5	257.5	237.9	237.9	265.8	307.9	316.2
60°	5267.0	2639.1	344.2	243.5	229.5	221.1	212.7	212.7	235.1	265.8	268.7
62.5°	3084.1	1421.7	221.1	195.9	195.9	187.5	173.5	173.5	195.9	212.7	215.5
65°	915.2	456.2	179.1	167.9	165.1	151.1	137.2	134.3	151.1	159.5	156.8
67.5°	263.1	209.9	148.4	139.9	137.2	114.7	106.4	103.5	106.4	100.8	98.0
70°	156.8	142.7	114.7	117.6	103.5	83.9	75.5	72.7	67.2	58.8	53.2
72.5°	86.8	86.8	83.9	89.6	72.7	56.0	47.6	39.2	30.8	25.1	22.4
75°	53.2	56.0	58.8	61.6	47.6	36.4	30.8	19.6	11.2	5.6	5.6
77.5°	36.4	39.2	42.0	44.7	39.2	33.6	25.1	14.0	2.8	0.0	0.0
80°	28.0	30.8	36.4	39.2	42.0	44.7	33.6	14.0	2.8	0.0	0.0
82.5°	30.8	33.6	42.0	39.2	39.2	39.2	30.8	14.0	2.8	0.0	0.0
85°	5.6	8.4	14.0	14.0	19.6	25.1	19.6	5.6	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)