

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: P529351

Luminaire Tested: **GALN-SA4C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529351
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-SA4C-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 14812 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

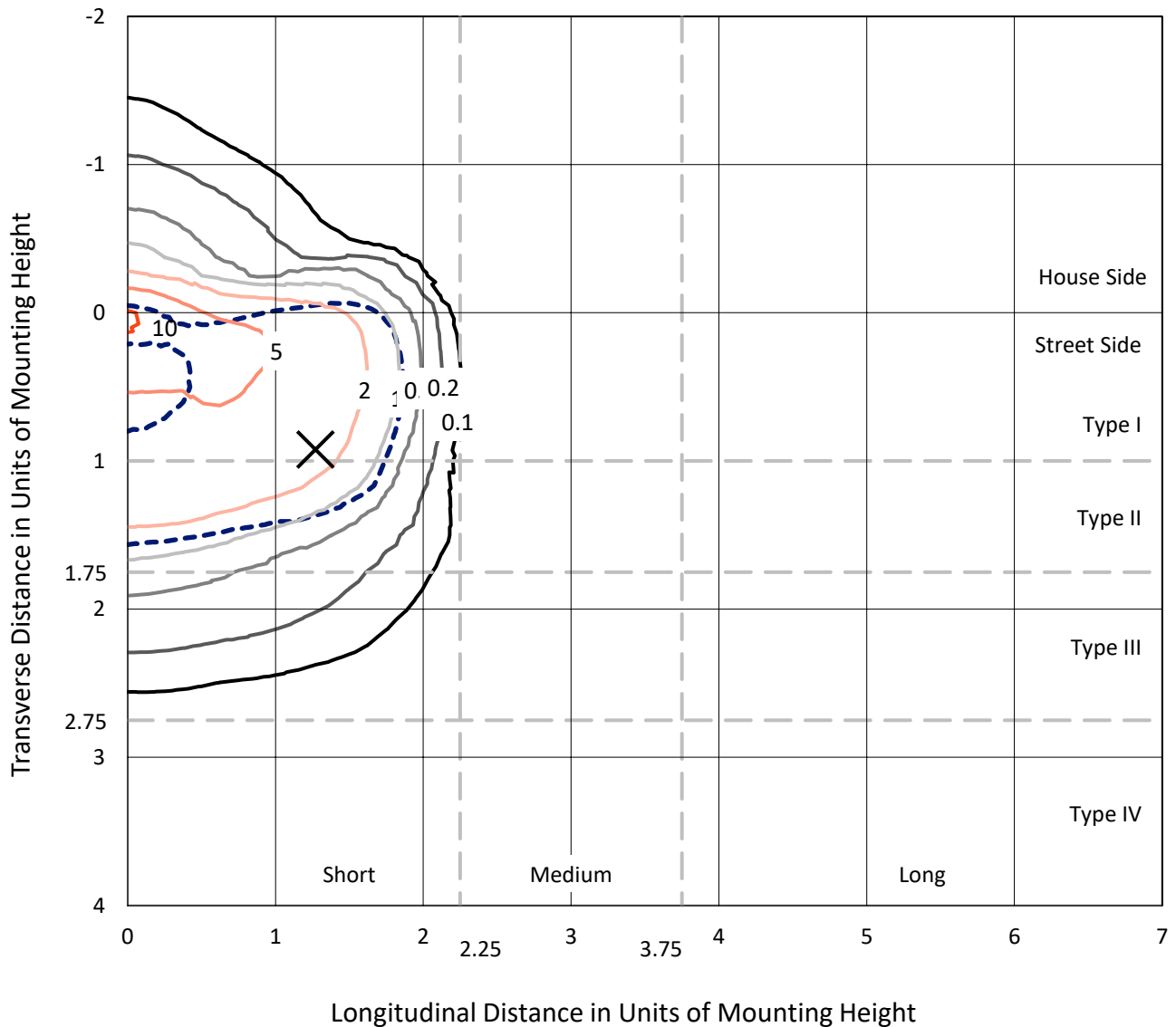
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

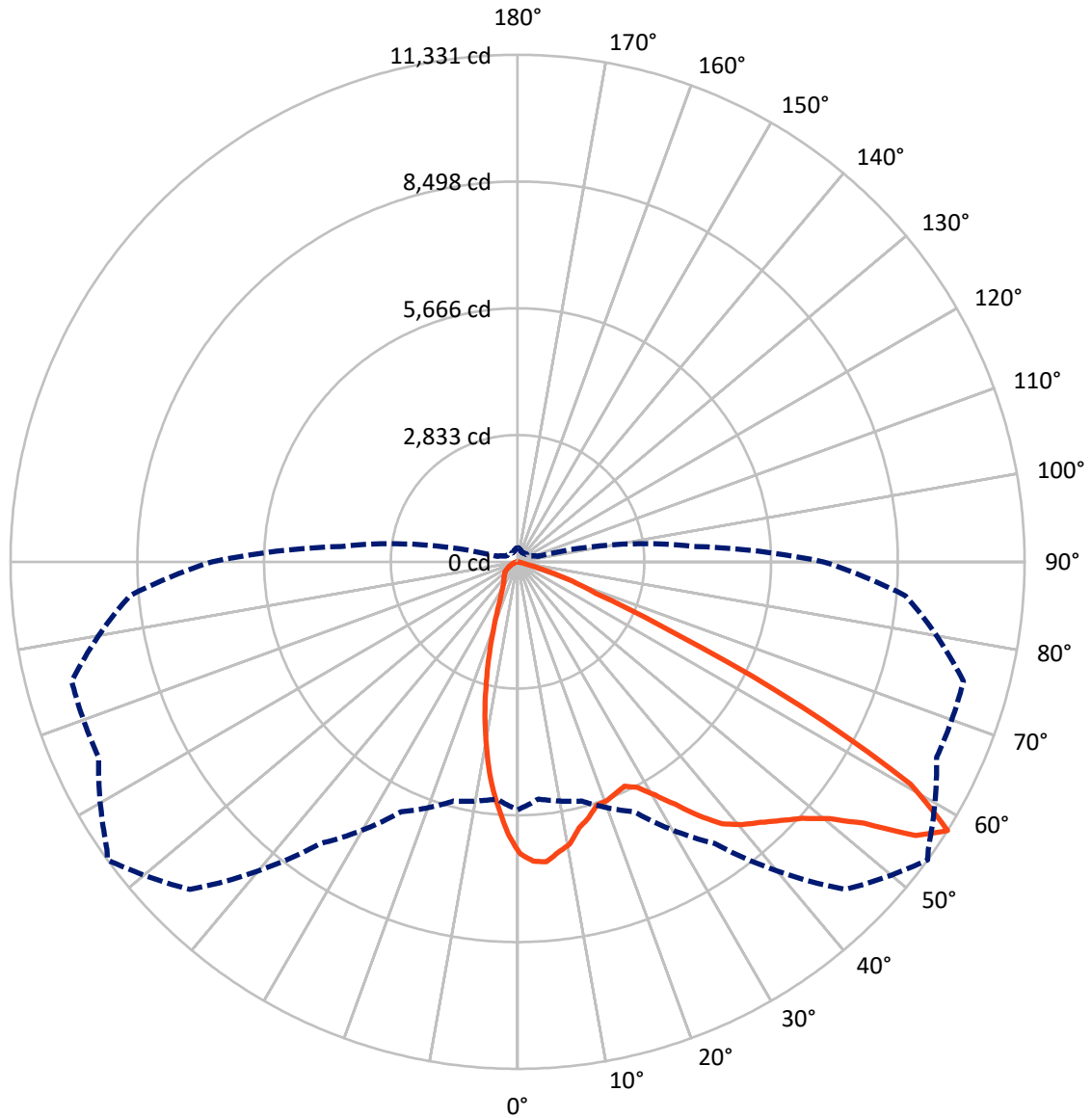
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	2093.2	0.0	2093.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12718.8	0.0	12718.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	14812.0	0.0	14812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.0	3.7
10°-20°	1165.7	7.9
20°-30°	1544.8	10.4
30°-40°	2245.1	15.2
40°-50°	3329.1	22.5
50°-60°	4162.9	28.1
60°-70°	1642.1	11.1
70°-80°	163.5	1.1
80°-90°	12.7	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°	14812.0	100.0
0°-180°	14812.0	100.0

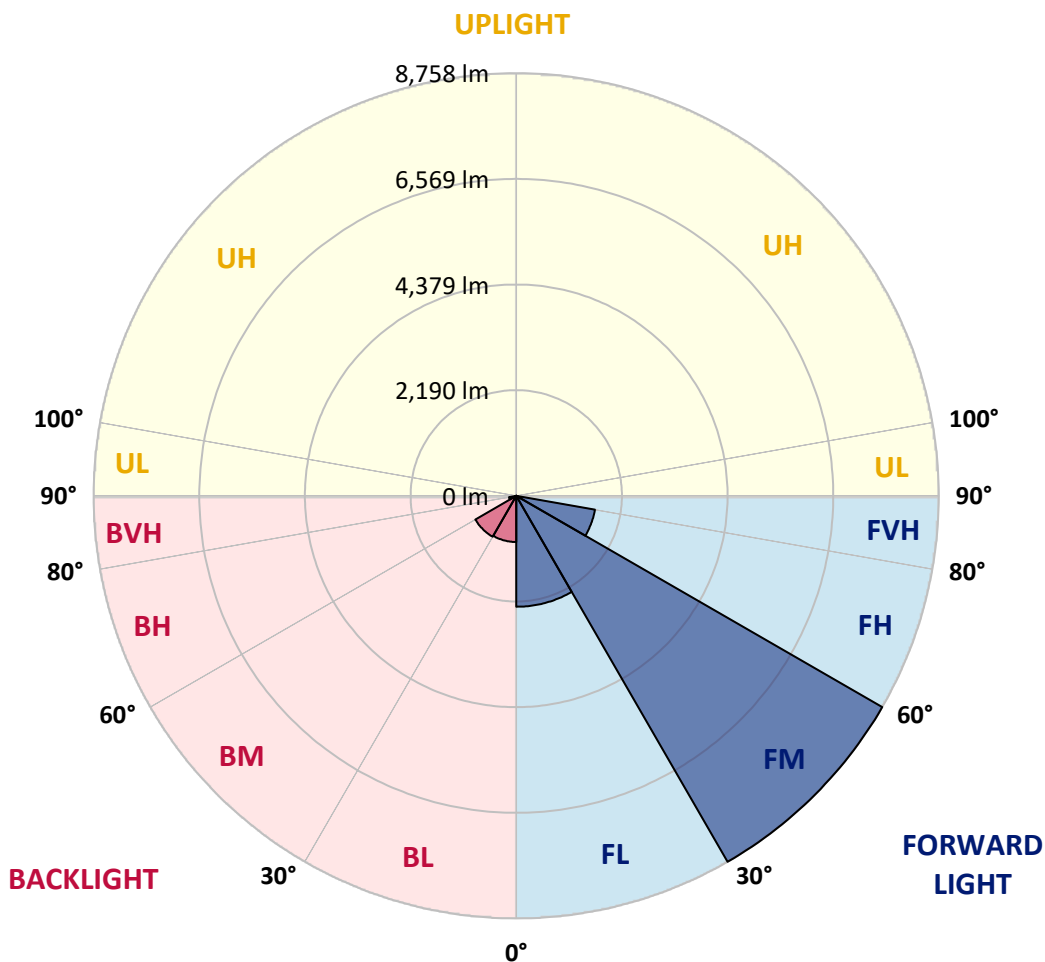


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2299.3	15.5			
FM (30°-60°)	8758.3	59.1			
FH (60°-80°)	1655.5	11.2			G1/1800
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	957.3	6.5	B2/1000		
BM (30°-60°)	978.8	6.6	B1/1000		
BH (60°-80°)	150.1	1.0	B1/500		G1/500
BVH (80°-90°)	6.9	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°	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9
2.5°	6905.0	6833.4	6838.9	6814.1	6781.0	6805.8	6698.4	6723.2	6720.4	6574.5	6478.1
5°	6731.5	6808.6	6728.7	6794.8	6731.5	6800.3	6734.2	6684.6	6604.8	6497.3	6318.3
7.5°	6436.7	6362.4	6384.4	6467.0	6480.8	6635.1	6552.4	6615.8	6582.7	6370.6	6125.5
10°	5844.6	5828.1	5938.2	6048.4	6183.4	6348.6	6412.0	6376.2	6351.4	6271.5	5943.7
12.5°	5390.1	5436.9	5434.2	5616.0	5844.6	5938.2	6103.5	6098.0	6235.7	6087.0	5773.0
15°	4957.7	4982.5	5098.2	5211.1	5464.5	5731.7	5935.5	5963.0	6128.3	6023.6	5640.8
17.5°	4693.3	4657.5	4748.4	4883.3	5142.2	5492.0	5717.9	5784.0	6009.8	5987.8	5489.3
20°	4431.6	4431.6	4506.0	4665.7	4902.6	5296.5	5698.6	5679.3	6009.8	5946.5	5326.8
22.5°	4343.5	4387.6	4406.8	4528.0	4809.0	5147.7	5616.0	5651.8	6056.7	5927.2	5255.2
25°	4464.7	4406.8	4412.4	4508.8	4773.2	5076.1	5555.4	5635.3	6142.0	6023.6	5197.3
27.5°	4484.0	4541.8	4558.3	4624.4	4800.7	5098.2	5706.9	5869.4	6354.1	6249.5	5213.8
30°	4652.0	4709.8	4707.1	4820.0	4941.2	5277.2	6045.6	6078.7	6792.1	6533.1	5315.8
32.5°	4855.8	4916.4	4935.7	5067.9	5164.3	5605.0	6458.8	6544.2	7213.5	6979.3	5582.9
35°	5109.2	5087.2	5175.3	5307.5	5514.1	6084.2	6962.8	7106.0	7667.9	7557.7	5858.4
37.5°	5425.9	5398.4	5483.8	5698.6	5979.5	6651.6	7428.3	7521.9	7998.4	8094.8	6367.9
40°	5649.0	5660.0	5918.9	6208.1	6505.6	7191.4	7723.0	7813.9	8229.8	8596.1	6753.5
42.5°	6020.9	6089.7	6400.9	6753.5	7064.7	7596.3	7962.6	8050.8	8337.2	8998.2	7274.0
45°	6560.7	6530.4	6874.7	7268.5	7612.8	8017.7	8246.3	8216.0	8400.5	9397.6	7601.8
47.5°	7254.8	7260.3	7488.9	7824.9	8183.0	8384.0	8563.1	8455.6	8532.8	9819.0	8039.7
50°	7728.5	7769.8	7954.4	8298.6	8477.7	8786.1	9014.8	8948.7	8923.9	10072.4	8315.2
52.5°	7849.7	7973.6	8072.8	8502.5	8921.1	9408.6	9700.6	9841.0	9400.4	10157.8	8665.0
55°	6935.3	7045.4	7395.2	7984.7	9089.1	10394.6	10796.8	10799.5	10022.8	10537.9	8910.1
57.5°	5544.4	5321.3	5536.1	6161.3	7684.4	10353.3	11331.1	11201.7	10334.1	10314.8	8698.0
60°	3834.0	3778.9	3792.6	4040.5	5318.5	8235.3	10097.2	10265.2	9516.0	8940.4	6885.7
62.5°	3038.0	2991.1	2930.6	2903.0	3302.4	5131.2	7122.6	7359.4	6654.3	5797.8	4081.8
65°	2379.7	2352.2	2360.4	2470.6	2467.8	2911.3	3894.5	3798.1	3040.7	2247.5	1283.5
67.5°	1605.7	1647.1	1680.1	2013.4	2184.1	2027.1	1881.2	1826.1	988.8	415.9	283.7
70°	903.4	908.9	944.7	1258.7	1658.1	1572.7	1297.3	1297.3	493.0	151.5	162.5
72.5°	493.0	476.5	443.4	542.6	738.1	749.2	578.4	504.0	146.0	99.2	90.9
75°	239.6	236.9	203.8	168.0	159.7	132.2	101.9	93.6	66.1	63.3	55.1
77.5°	49.6	46.8	24.8	24.8	27.5	30.3	38.6	38.6	46.8	46.8	38.6
80°	0.0	0.0	2.8	11.0	19.3	27.5	33.1	33.1	38.6	38.6	30.3
82.5°	0.0	0.0	2.8	8.3	16.5	24.8	30.3	33.1	38.6	41.3	33.1
85°	0.0	0.0	0.0	5.5	13.8	19.3	16.5	16.5	13.8	11.0	5.5
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°	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9	6524.9
2.5°	6428.5	6423.0	6296.3	6224.7	6095.2	5982.3	5891.4	5825.3	5825.3	5784.0	5745.4
5°	6246.7	6199.9	5930.0	5756.4	5511.3	5329.5	5205.6	5109.2	4957.7	4999.0	4836.5
7.5°	6020.9	5902.4	5544.4	5280.0	4941.2	4682.3	4417.9	4183.7	3957.9	3856.0	3911.1
10°	5778.5	5571.9	5089.9	4671.3	4249.9	3776.1	3467.6	3093.1	2861.7	2847.9	2787.3
12.5°	5522.3	5288.2	4701.6	4123.2	3569.5	2999.4	2528.4	2178.6	2021.6	1848.1	1881.2
15°	5329.5	4982.5	4269.1	3572.3	2836.9	2261.3	1787.5	1517.6	1368.9	1327.6	1313.8
17.5°	5120.2	4748.4	3828.4	2985.6	2225.5	1627.8	1286.2	1156.8	1099.0	1099.0	1090.7
20°	4902.6	4484.0	3390.5	2440.3	1669.1	1214.6	1030.1	988.8	986.0	983.3	983.3
22.5°	4759.4	4181.0	2993.9	1939.0	1258.7	972.3	895.1	878.6	889.6	922.7	922.7
25°	4607.9	3889.0	2556.0	1495.6	975.0	834.5	790.5	801.5	829.0	859.3	848.3
27.5°	4453.7	3699.0	2142.8	1173.3	798.7	729.9	713.4	738.1	768.4	796.0	787.7
30°	4417.9	3495.2	1751.7	889.6	685.8	636.2	647.3	669.3	699.6	710.6	721.6
32.5°	4472.9	3335.4	1435.0	729.9	597.7	583.9	583.9	594.9	614.2	639.0	630.7
35°	4629.9	3244.5	1134.8	633.5	548.1	534.3	531.6	542.6	553.6	561.9	553.6
37.5°	4869.6	3172.9	928.2	561.9	515.1	493.0	487.5	484.8	495.8	498.5	504.0
40°	5175.3	3211.5	787.7	517.8	482.0	457.2	440.7	440.7	440.7	448.9	451.7
42.5°	5505.8	3263.8	680.3	493.0	451.7	421.4	404.9	399.4	404.9	415.9	413.1
45°	5852.8	3365.7	611.4	454.5	424.2	385.6	363.6	358.1	371.8	393.9	391.1
47.5°	6177.8	3511.7	559.1	429.7	396.6	360.8	333.3	327.8	352.5	382.8	385.6
50°	6502.9	3765.1	539.8	410.4	377.3	336.0	311.2	305.7	333.3	371.8	380.1
52.5°	6877.4	4037.8	526.1	385.6	355.3	316.7	289.2	283.7	314.0	363.6	366.3
55°	7122.6	4269.1	515.1	341.5	314.0	286.4	264.4	261.7	294.7	338.8	349.8
57.5°	6836.1	3946.9	476.5	297.5	267.2	253.4	234.1	234.1	261.7	303.0	311.2
60°	5183.6	2597.3	338.8	239.6	225.9	217.6	209.3	209.3	231.4	261.7	264.4
62.5°	3035.2	1399.2	217.6	192.8	192.8	184.5	170.8	170.8	192.8	209.3	212.1
65°	900.6	448.9	176.3	165.3	162.5	148.7	135.0	132.2	148.7	157.0	154.2
67.5°	258.9	206.6	146.0	137.7	135.0	112.9	104.7	101.9	104.7	99.2	96.4
70°	154.2	140.5	112.9	115.7	101.9	82.6	74.4	71.6	66.1	57.8	52.3
72.5°	85.4	85.4	82.6	88.1	71.6	55.1	46.8	38.6	30.3	24.8	22.0
75°	52.3	55.1	57.8	60.6	46.8	35.8	30.3	19.3	11.0	5.5	5.5
77.5°	35.8	38.6	41.3	44.1	38.6	33.1	24.8	13.8	2.8	0.0	0.0
80°	27.5	30.3	35.8	38.6	41.3	44.1	33.1	13.8	2.8	0.0	0.0
82.5°	30.3	33.1	41.3	38.6	38.6	38.6	30.3	13.8	2.8	0.0	0.0
85°	5.5	8.3	13.8	13.8	19.3	24.8	19.3	5.5	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)