

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: P528929

Luminaire Tested: **GALN-SA4A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13495 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

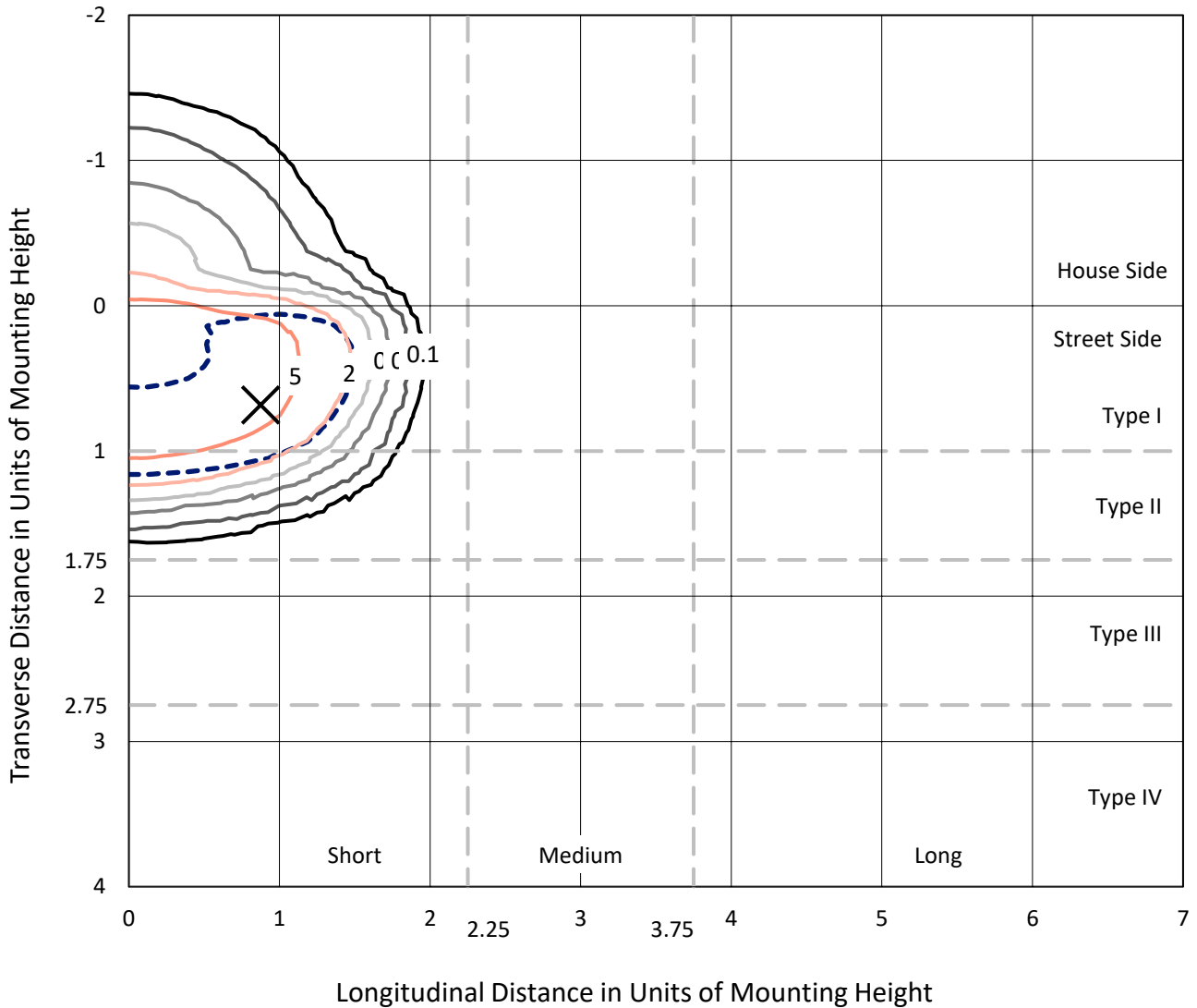
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

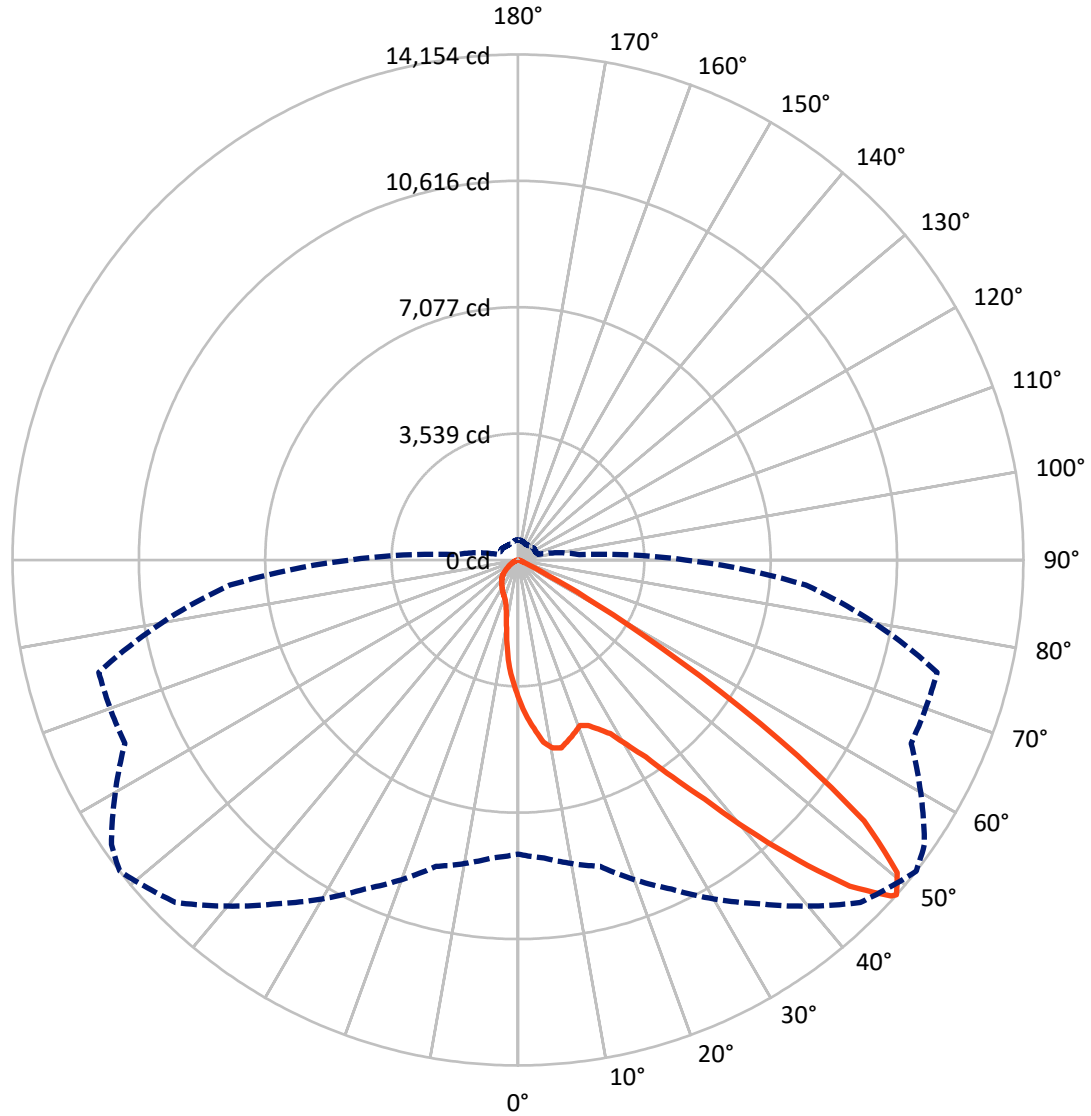
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.1	0.0	1643.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11851.9	0.0	11851.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	13495.0	0.0	13495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	2.6
10°-20°	932.2	6.9
20°-30°	1591.6	11.8
30°-40°	2931.0	21.7
40°-50°	4551.8	33.7
50°-60°	2739.4	20.3
60°-70°	316.8	2.3
70°-80°	61.3	0.5
80°-90°	14.2	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°	13495.0	100.0
0°-180°	13495.0	100.0

Coefficient of Utilization



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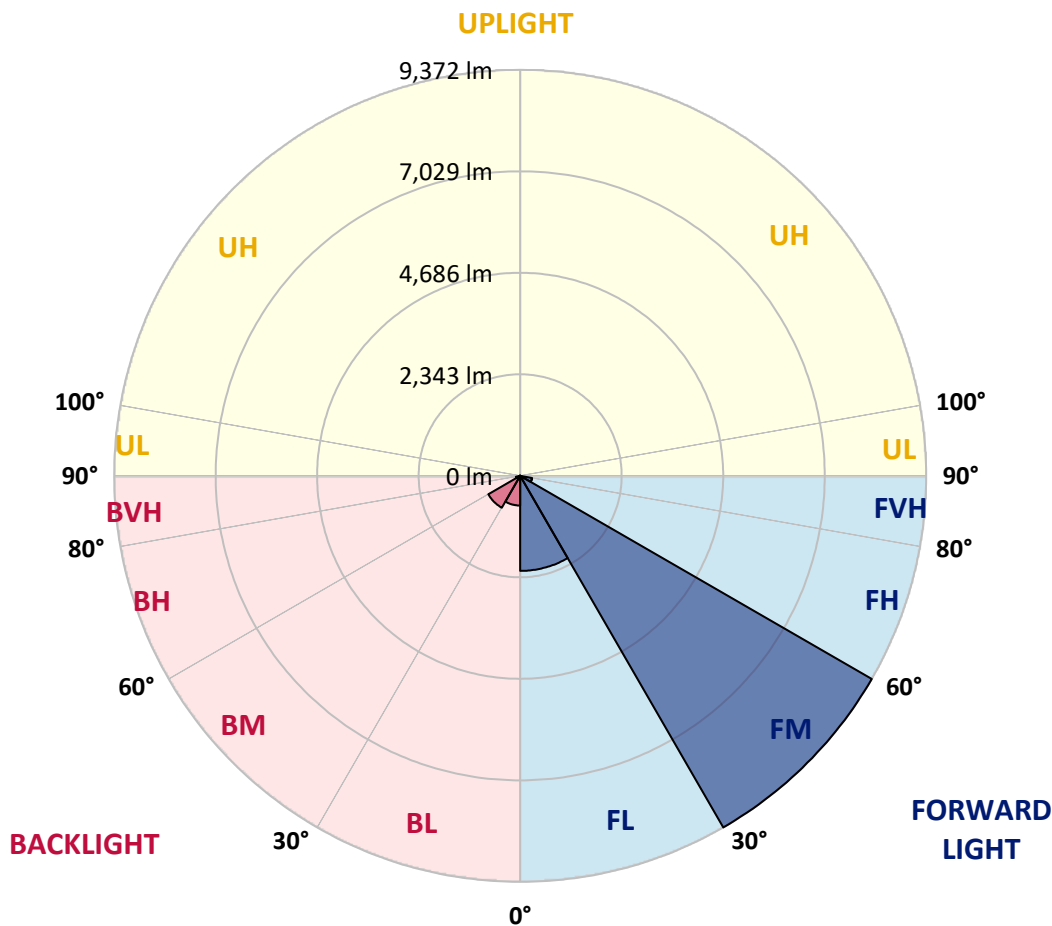
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2194.1	16.3			
FM (30°-60°)	9372.0	69.4			
FH (60°-80°)	279.0	2.1			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	686.4	5.1	B2/1000		
BM (30°-60°)	850.1	6.3	B1/1000		
BH (60°-80°)	99.2	0.7	B0/110		G0/110
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1
2.5°	4723.4	4615.2	4625.0	4554.2	4512.9	4446.0	4355.5	4337.8	4239.4	4105.7	3969.9
5°	5148.3	5122.7	5156.2	5053.9	5057.8	4947.6	4735.2	4739.1	4512.9	4294.5	4084.0
7.5°	5175.8	5116.8	5150.3	5240.8	5293.9	5274.2	5154.2	5049.9	4835.5	4514.8	4208.0
10°	4634.9	4747.0	4782.4	4931.9	5144.4	5368.6	5354.9	5360.8	5181.7	4762.7	4314.2
12.5°	4310.3	4235.5	4355.5	4446.0	4766.7	5201.4	5400.1	5443.4	5457.2	5002.7	4420.4
15°	4162.7	4162.7	4182.4	4208.0	4440.1	4841.4	5246.7	5372.6	5669.6	5317.5	4587.6
17.5°	4255.2	4251.2	4278.8	4225.7	4312.2	4621.1	5105.0	5248.6	5907.7	5626.3	4719.4
20°	4536.5	4550.3	4532.6	4379.1	4385.0	4617.1	4947.6	5173.9	6069.0	5893.9	4894.5
22.5°	4928.0	4935.8	4835.5	4668.3	4619.1	4733.2	5038.1	5211.3	6198.8	6214.6	4947.6
25°	5380.4	5349.0	5329.3	5093.2	4943.7	5042.1	5242.7	5343.1	6279.5	6490.0	5099.1
27.5°	6008.0	5945.0	5825.0	5614.5	5504.4	5364.7	5508.3	5673.6	6509.6	6875.6	5264.4
30°	6934.6	6879.5	6645.4	6373.9	6084.7	5947.0	5992.3	6082.8	6924.7	7322.1	5482.7
32.5°	8329.4	8213.3	7874.9	7357.5	6964.1	6584.4	6572.6	6669.0	7296.5	7939.8	5742.4
35°	9865.8	9830.4	9332.7	8799.5	8038.2	7452.0	7461.8	7512.9	8008.7	8750.3	6082.8
37.5°	10886.8	11081.5	10764.8	10192.3	9553.0	8714.9	8502.5	8520.2	8986.4	9710.4	6696.5
40°	11675.7	11510.4	11547.8	11414.0	10977.3	10406.8	9936.6	9844.1	10117.6	10772.7	7306.4
42.5°	11331.4	11339.3	11569.4	11886.2	11994.4	11953.0	11473.0	11297.9	11085.5	11642.2	7886.7
45°	10359.6	10562.2	10861.2	11699.3	12435.0	13125.5	13031.1	12739.9	11754.3	12330.8	8221.2
47.5°	8809.4	8801.5	9291.3	10381.2	12016.0	13633.1	14061.9	13857.3	12228.5	12254.0	8152.3
48°	8236.9	8378.5	8884.1	10166.8	11750.4	13558.3	14154.4	13896.7	12147.8	12151.7	8093.3
50°	6088.7	6063.1	6692.6	8266.4	10495.3	12739.9	13764.9	13965.5	12145.8	11634.3	7680.2
52.5°	3216.5	3326.6	3785.0	5197.5	7420.5	10426.5	12141.9	12454.7	11717.0	10788.4	7086.1
55°	1367.2	1235.4	1587.6	2346.9	4174.5	6966.0	8907.7	9604.1	9907.1	9547.1	6198.8
57.5°	487.9	533.1	613.8	883.3	1754.8	3812.5	5311.6	5852.6	6863.8	7005.4	4223.7
60°	312.8	318.7	344.3	405.3	659.0	1469.5	2520.1	2950.9	3409.3	3519.4	1971.2
62.5°	242.0	243.9	255.7	265.6	312.8	570.5	946.2	1121.3	1164.6	1001.3	517.4
65°	202.6	204.6	208.5	208.5	222.3	267.5	330.5	363.9	354.1	350.2	293.1
67.5°	155.4	159.3	167.2	167.2	175.1	163.3	183.0	194.8	220.3	267.5	249.8
70°	122.0	123.9	129.8	133.8	133.8	118.0	131.8	143.6	161.3	198.7	196.7
72.5°	94.4	98.4	102.3	102.3	96.4	80.7	94.4	104.3	116.1	137.7	133.8
75°	72.8	72.8	74.8	61.0	47.2	41.3	57.1	68.9	86.6	90.5	74.8
77.5°	19.7	21.6	19.7	17.7	19.7	29.5	37.4	43.3	55.1	55.1	49.2
80°	0.0	2.0	5.9	11.8	19.7	27.5	33.4	37.4	43.3	47.2	45.2
82.5°	0.0	2.0	5.9	11.8	17.7	21.6	29.5	31.5	35.4	41.3	41.3
85°	0.0	2.0	3.9	7.9	11.8	13.8	13.8	11.8	11.8	9.8	7.9
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1	3897.1
2.5°	3916.8	3855.8	3763.4	3617.8	3478.1	3387.6	3301.1	3204.7	3151.5	3147.6	3118.1
5°	3964.0	3826.3	3606.0	3356.1	3088.6	2858.4	2626.3	2474.8	2339.1	2264.3	2250.5
7.5°	3989.6	3810.6	3454.5	3035.5	2579.1	2203.3	1943.6	1752.8	1678.1	1623.0	1621.0
10°	4042.7	3783.0	3228.3	2610.5	2045.9	1666.3	1487.2	1400.7	1359.4	1343.6	1320.0
12.5°	4082.1	3731.9	2996.1	2173.8	1617.1	1381.0	1302.3	1282.7	1284.6	1292.5	1282.7
15°	4137.1	3686.6	2683.3	1784.3	1357.4	1243.3	1243.3	1247.2	1274.8	1278.7	1276.7
17.5°	4133.2	3598.1	2360.7	1469.5	1200.0	1184.3	1190.2	1227.6	1245.3	1251.2	1237.4
20°	4180.4	3515.5	2028.2	1255.1	1111.5	1135.1	1174.5	1184.3	1205.9	1209.9	1194.1
22.5°	4166.6	3308.9	1719.4	1085.9	1044.6	1089.9	1129.2	1141.0	1135.1	1123.3	1121.3
25°	4141.1	3131.9	1436.1	973.8	995.4	1044.6	1082.0	1060.4	1048.5	1050.5	1052.5
27.5°	4095.8	2907.6	1202.0	895.1	928.5	1001.3	999.4	991.5	1003.3	993.5	1003.3
30°	4088.0	2683.3	1009.2	824.3	879.4	932.5	936.4	950.2	964.0	946.2	964.0
32.5°	4099.8	2437.4	871.5	781.0	849.9	851.8	895.1	908.9	899.0	859.7	863.6
35°	4190.3	2248.6	771.2	757.4	802.6	804.6	845.9	828.2	784.9	761.3	775.1
37.5°	4381.1	2091.2	723.9	735.8	739.7	765.3	767.2	731.8	735.8	733.8	741.7
40°	4625.0	1971.2	690.5	716.1	712.1	729.9	659.0	678.7	696.4	702.3	706.2
42.5°	4792.2	1884.6	668.9	684.6	676.7	645.3	605.9	625.6	639.4	661.0	664.9
45°	4867.0	1815.8	643.3	629.5	629.5	572.5	556.7	560.7	592.1	615.8	611.8
47.5°	4745.0	1748.9	598.0	556.7	570.5	523.3	505.6	505.6	539.0	568.5	562.6
48°	4697.8	1721.3	600.0	541.0	550.8	515.4	497.7	493.8	531.2	558.7	558.7
50°	4463.7	1619.1	548.9	497.7	478.0	474.1	462.3	466.2	489.8	515.4	515.4
52.5°	4007.3	1398.7	464.3	426.9	391.5	415.1	421.0	413.1	424.9	448.5	446.6
55°	3344.3	1074.1	371.8	354.1	326.6	352.1	363.9	354.1	342.3	360.0	360.0
57.5°	2142.3	578.4	297.1	301.0	273.4	299.0	308.9	285.3	263.6	277.4	275.4
60°	965.9	346.2	243.9	238.0	220.3	249.8	265.6	238.0	208.5	218.4	228.2
62.5°	362.0	245.9	184.9	181.0	177.1	204.6	212.5	190.8	161.3	167.2	169.2
65°	265.6	216.4	147.5	133.8	141.6	161.3	157.4	135.7	116.1	116.1	120.0
67.5°	226.2	188.9	120.0	104.3	104.3	106.2	98.4	86.6	80.7	84.6	88.5
70°	177.1	149.5	94.4	80.7	72.8	64.9	57.1	55.1	49.2	55.1	53.1
72.5°	114.1	100.3	72.8	61.0	55.1	45.2	37.4	35.4	29.5	27.5	27.5
75°	61.0	61.0	57.1	49.2	43.3	35.4	29.5	23.6	15.7	11.8	11.8
77.5°	43.3	47.2	51.1	47.2	39.3	29.5	23.6	15.7	7.9	3.9	3.9
80°	41.3	47.2	51.1	45.2	39.3	29.5	21.6	11.8	5.9	2.0	2.0
82.5°	37.4	43.3	47.2	41.3	35.4	25.6	19.7	11.8	5.9	2.0	2.0
85°	7.9	9.8	11.8	11.8	13.8	17.7	13.8	9.8	3.9	2.0	2.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	2.0
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)