

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: P532289

Luminaire Tested: **GALN-SA7C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532289
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-SA7C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21051 lumens
Efficiency: N/A
Efficacy: 55.8 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

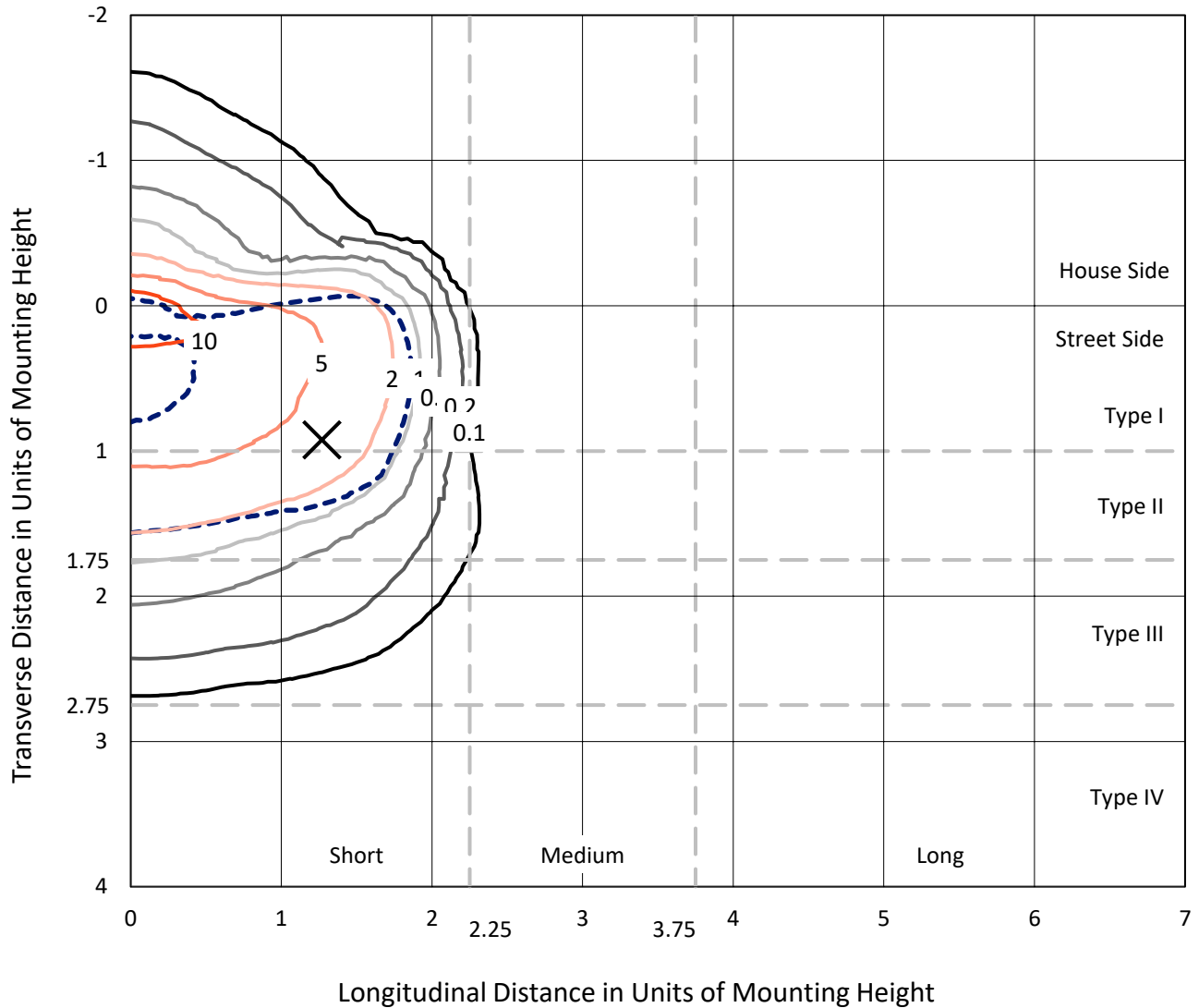
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

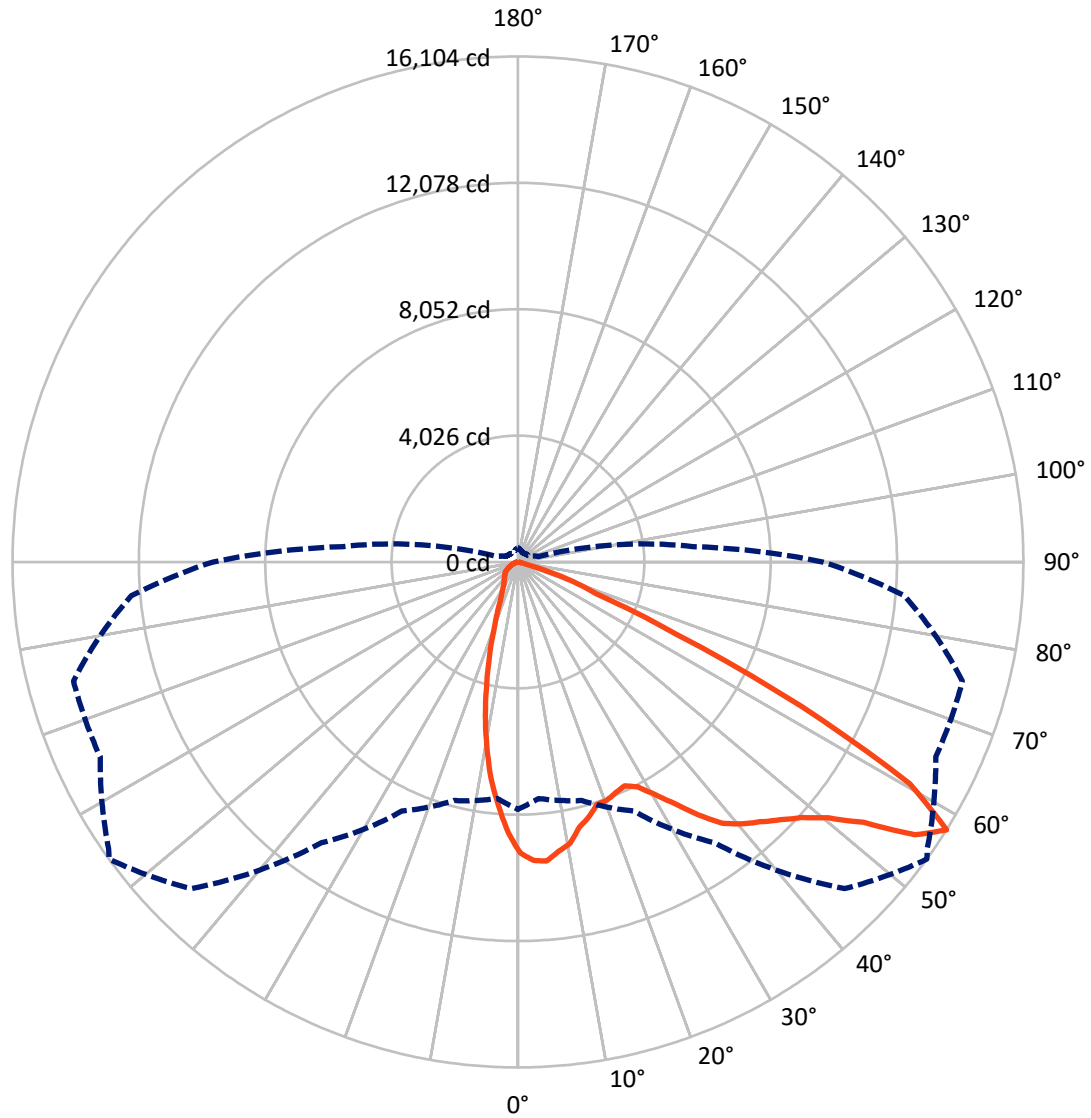
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	2974.9	0.0	2974.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18076.1	0.0	18076.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	21051.0	0.0	21051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.0	3.7
10°-20°	1656.8	7.9
20°-30°	2195.5	10.4
30°-40°	3190.7	15.2
40°-50°	4731.4	22.5
50°-60°	5916.4	28.1
60°-70°	2333.8	11.1
70°-80°	232.4	1.1
80°-90°	18.1	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°	21051.0	100.0
0°-180°	21051.0	100.0

Coefficient of Utilization

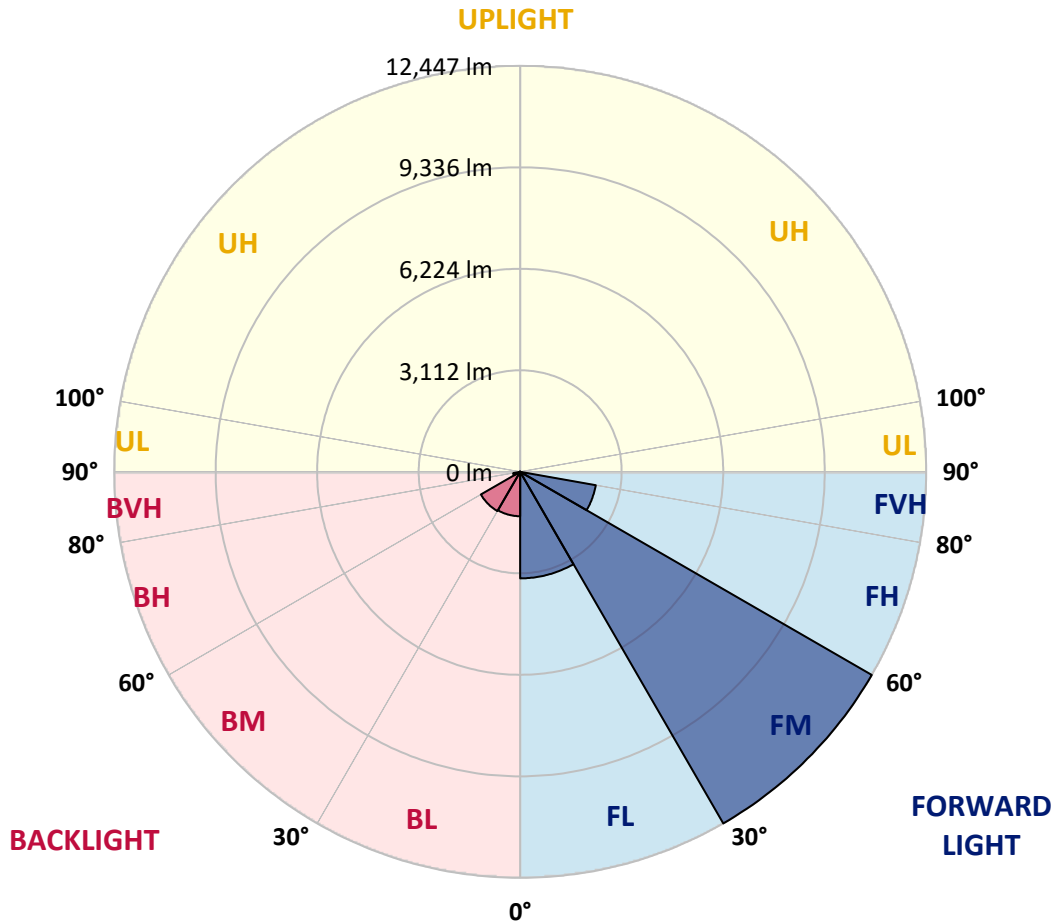


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3267.7	15.5			
FM (30°-60°)	12447.4	59.1			
FH (60°-80°)	2352.8	11.2			G2/5000
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1360.6	6.5	B3/2500		
BM (30°-60°)	1391.1	6.6	B2/2500		
BH (60°-80°)	213.3	1.0	B1/500		G1/500
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2
2.5°	9813.4	9711.7	9719.5	9684.3	9637.3	9672.5	9519.9	9555.1	9551.2	9343.7	9206.7
5°	9566.8	9676.4	9562.9	9656.9	9566.8	9664.7	9570.7	9500.3	9386.8	9234.1	8979.7
7.5°	9148.0	9042.3	9073.6	9191.0	9210.6	9429.8	9312.4	9402.4	9355.5	9054.0	8705.7
10°	8306.4	8282.9	8439.5	8596.1	8787.9	9022.7	9112.8	9061.9	9026.6	8913.1	8447.3
12.5°	7660.5	7727.1	7723.1	7981.5	8306.4	8439.5	8674.3	8666.5	8862.2	8650.9	8204.6
15°	7045.9	7081.2	7245.6	7406.1	7766.2	8145.9	8435.6	8474.7	8709.6	8560.8	8016.7
17.5°	6670.2	6619.3	6748.5	6940.3	7308.2	7805.3	8126.3	8220.3	8541.3	8509.9	7801.4
20°	6298.3	6298.3	6404.0	6631.0	6967.7	7527.4	8098.9	8071.5	8541.3	8451.2	7570.5
22.5°	6173.0	6235.7	6263.1	6435.3	6834.6	7316.0	7981.5	8032.4	8607.8	8423.8	7468.7
25°	6345.3	6263.1	6270.9	6407.9	6783.7	7214.3	7895.4	8008.9	8729.1	8560.8	7386.5
27.5°	6372.7	6454.9	6478.4	6572.3	6822.8	7245.6	8110.7	8341.6	9030.6	8881.8	7410.0
30°	6611.4	6693.6	6689.7	6850.2	7022.5	7500.0	8592.1	8639.1	9652.9	9285.0	7554.8
32.5°	6901.1	6987.2	7014.6	7202.5	7339.5	7965.8	9179.3	9300.6	10251.9	9919.1	7934.5
35°	7261.2	7229.9	7355.2	7543.1	7836.7	8646.9	9895.6	10099.2	10897.7	10741.2	8326.0
37.5°	7711.4	7672.3	7793.6	8098.9	8498.2	9453.3	10557.2	10690.3	11367.5	11504.5	9050.1
40°	8028.5	8044.1	8412.1	8823.1	9245.8	10220.5	10976.0	11105.2	11696.3	12216.9	9598.1
42.5°	8556.9	8654.8	9097.1	9598.1	10040.5	10796.0	11316.6	11441.8	11848.9	12788.4	10338.0
45°	9324.1	9281.1	9770.4	10330.1	10819.4	11394.9	11719.8	11676.7	11939.0	13356.0	10803.8
47.5°	10310.6	10318.4	10643.3	11120.9	11629.7	11915.5	12169.9	12017.3	12126.9	13954.9	11426.2
50°	10983.8	11042.6	11304.8	11794.1	12048.6	12487.0	12811.9	12717.9	12682.7	14315.0	11817.6
52.5°	11156.1	11332.2	11473.2	12083.8	12678.8	13371.6	13786.6	13986.2	13359.9	14436.4	12314.7
55°	9856.5	10013.1	10510.2	11347.9	12917.6	14773.0	15344.5	15348.4	14244.6	14976.6	12663.1
57.5°	7879.7	7562.6	7868.0	8756.5	10921.2	14714.3	16103.9	15919.9	14686.9	14659.5	12361.7
60°	5448.9	5370.6	5390.1	5742.4	7558.7	11704.1	14350.2	14589.0	13524.3	12706.2	9786.0
62.5°	4317.6	4251.1	4164.9	4125.8	4693.4	7292.6	10122.7	10459.3	9457.2	8239.8	5801.2
65°	3382.1	3342.9	3354.7	3511.2	3507.3	4137.5	5535.0	5398.0	4321.5	3194.2	1824.1
67.5°	2282.1	2340.8	2387.8	2861.4	3104.1	2881.0	2673.5	2595.3	1405.3	591.1	403.2
70°	1283.9	1291.8	1342.6	1788.9	2356.5	2235.1	1843.7	1843.7	700.7	215.3	231.0
72.5°	700.7	677.2	630.2	771.1	1049.1	1064.7	822.0	716.3	207.5	140.9	129.2
75°	340.6	336.6	289.7	238.8	227.0	187.9	144.8	133.1	93.9	90.0	78.3
77.5°	70.5	66.5	35.2	35.2	39.1	43.1	54.8	54.8	66.5	66.5	54.8
80°	0.0	0.0	3.9	15.7	27.4	39.1	47.0	47.0	54.8	54.8	43.1
82.5°	0.0	0.0	3.9	11.7	23.5	35.2	43.1	47.0	54.8	58.7	47.0
85°	0.0	0.0	0.0	7.8	19.6	27.4	23.5	23.5	19.6	15.7	7.8
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°	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2	9273.2
2.5°	9136.2	9128.4	8948.4	8846.6	8662.6	8502.1	8372.9	8279.0	8279.0	8220.3	8165.5
5°	8877.9	8811.3	8427.7	8181.1	7832.7	7574.4	7398.2	7261.2	7045.9	7104.7	6873.7
7.5°	8556.9	8388.6	7879.7	7503.9	7022.5	6654.5	6278.7	5946.0	5625.0	5480.2	5558.5
10°	8212.4	7918.9	7233.8	6638.8	6039.9	5366.7	4928.2	4395.9	4067.1	4047.5	3961.4
12.5°	7848.4	7515.7	6681.9	5859.9	5073.1	4262.8	3593.4	3096.3	2873.2	2626.6	2673.5
15°	7574.4	7081.2	6067.3	5077.0	4031.8	3213.7	2540.5	2156.8	1945.5	1886.7	1867.2
17.5°	7276.9	6748.5	5441.0	4243.2	3162.8	2313.4	1828.0	1644.1	1561.9	1561.9	1550.1
20°	6967.7	6372.7	4818.6	3468.2	2372.1	1726.3	1464.0	1405.3	1401.4	1397.4	1397.4
22.5°	6764.1	5942.1	4255.0	2755.7	1788.9	1381.8	1272.2	1248.7	1264.4	1311.3	1311.3
25°	6548.8	5527.2	3632.6	2125.5	1385.7	1186.1	1123.4	1139.1	1178.2	1221.3	1205.6
27.5°	6329.6	5257.1	3045.4	1667.5	1135.2	1037.3	1013.8	1049.1	1092.1	1131.3	1119.5
30°	6278.7	4967.4	2489.6	1264.4	974.7	904.2	919.9	951.2	994.3	1009.9	1025.6
32.5°	6357.0	4740.4	2039.4	1037.3	849.4	829.9	829.9	845.5	872.9	908.1	896.4
35°	6580.1	4611.2	1612.7	900.3	779.0	759.4	755.5	771.1	786.8	798.5	786.8
37.5°	6920.7	4509.4	1319.2	798.5	732.0	700.7	692.9	688.9	704.6	708.5	716.3
40°	7355.2	4564.2	1119.5	735.9	685.0	649.8	626.3	626.3	626.3	638.0	642.0
42.5°	7824.9	4638.6	966.9	700.7	642.0	598.9	575.4	567.6	575.4	591.1	587.2
45°	8318.1	4783.4	869.0	645.9	602.8	548.0	516.7	508.9	528.4	559.8	555.8
47.5°	8780.0	4990.9	794.6	610.6	563.7	512.8	473.6	465.8	501.0	544.1	548.0
50°	9241.9	5351.0	767.2	583.2	536.3	477.6	442.3	434.5	473.6	528.4	540.2
52.5°	9774.3	5738.5	747.7	548.0	505.0	450.2	411.0	403.2	446.2	516.7	520.6
55°	10122.7	6067.3	732.0	485.4	446.2	407.1	375.8	371.9	418.8	481.5	497.1
57.5°	9715.6	5609.4	677.2	422.8	379.7	360.1	332.7	332.7	371.9	430.6	442.3
60°	7366.9	3691.3	481.5	340.6	321.0	309.2	297.5	297.5	328.8	371.9	375.8
62.5°	4313.7	1988.5	309.2	274.0	274.0	262.3	242.7	242.7	274.0	297.5	301.4
65°	1280.0	638.0	250.5	234.9	231.0	211.4	191.8	187.9	211.4	223.1	219.2
67.5°	368.0	293.6	207.5	195.7	191.8	160.5	148.7	144.8	148.7	140.9	137.0
70°	219.2	199.6	160.5	164.4	144.8	117.4	105.7	101.8	93.9	82.2	74.4
72.5°	121.3	121.3	117.4	125.3	101.8	78.3	66.5	54.8	43.1	35.2	31.3
75°	74.4	78.3	82.2	86.1	66.5	50.9	43.1	27.4	15.7	7.8	7.8
77.5°	50.9	54.8	58.7	62.6	54.8	47.0	35.2	19.6	3.9	0.0	0.0
80°	39.1	43.1	50.9	54.8	58.7	62.6	47.0	19.6	3.9	0.0	0.0
82.5°	43.1	47.0	58.7	54.8	54.8	54.8	43.1	19.6	3.9	0.0	0.0
85°	7.8	11.7	19.6	19.6	27.4	35.2	27.4	7.8	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)