

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: P452065

Luminaire Tested: **GALN-SA3A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9141 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

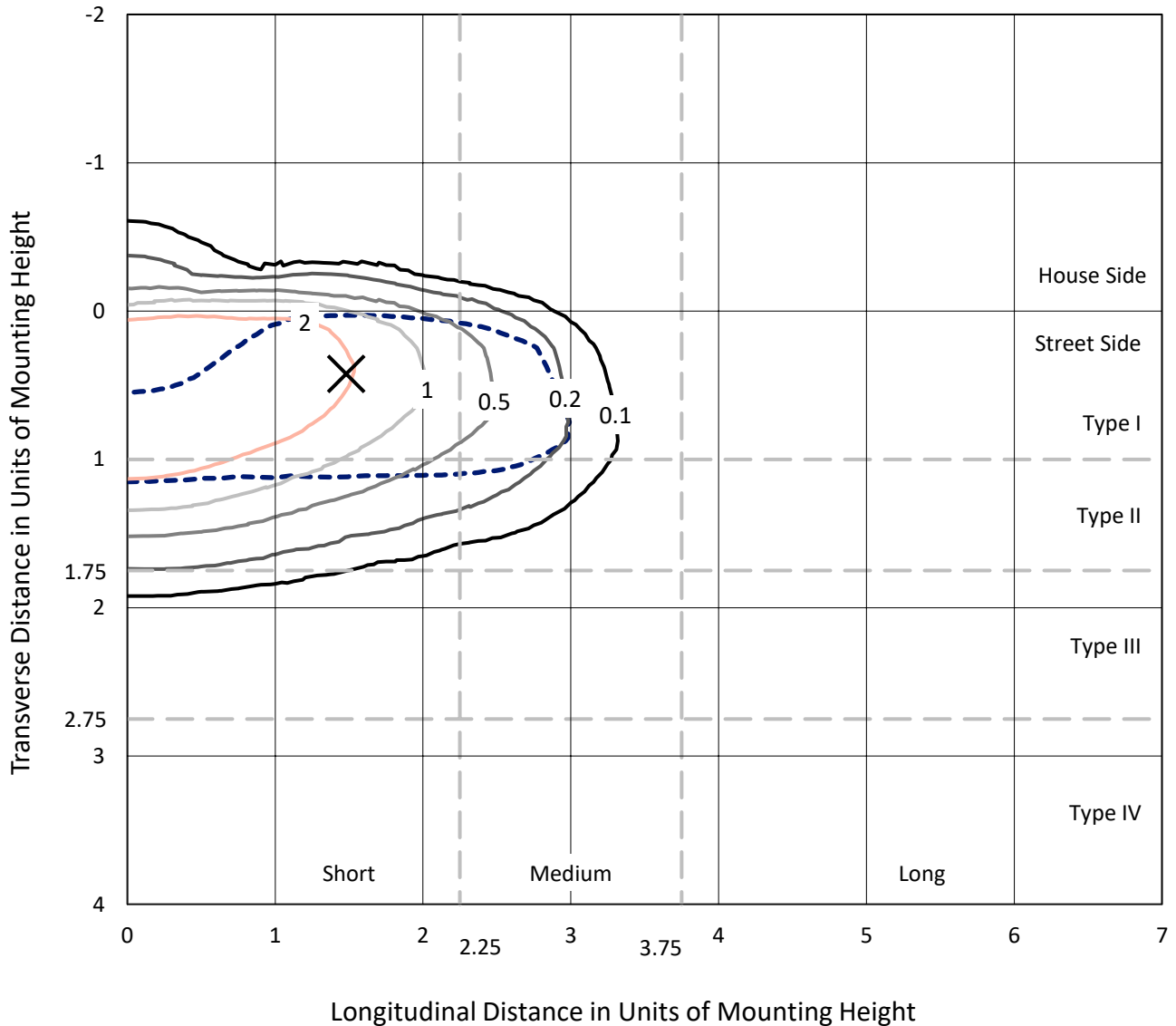
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

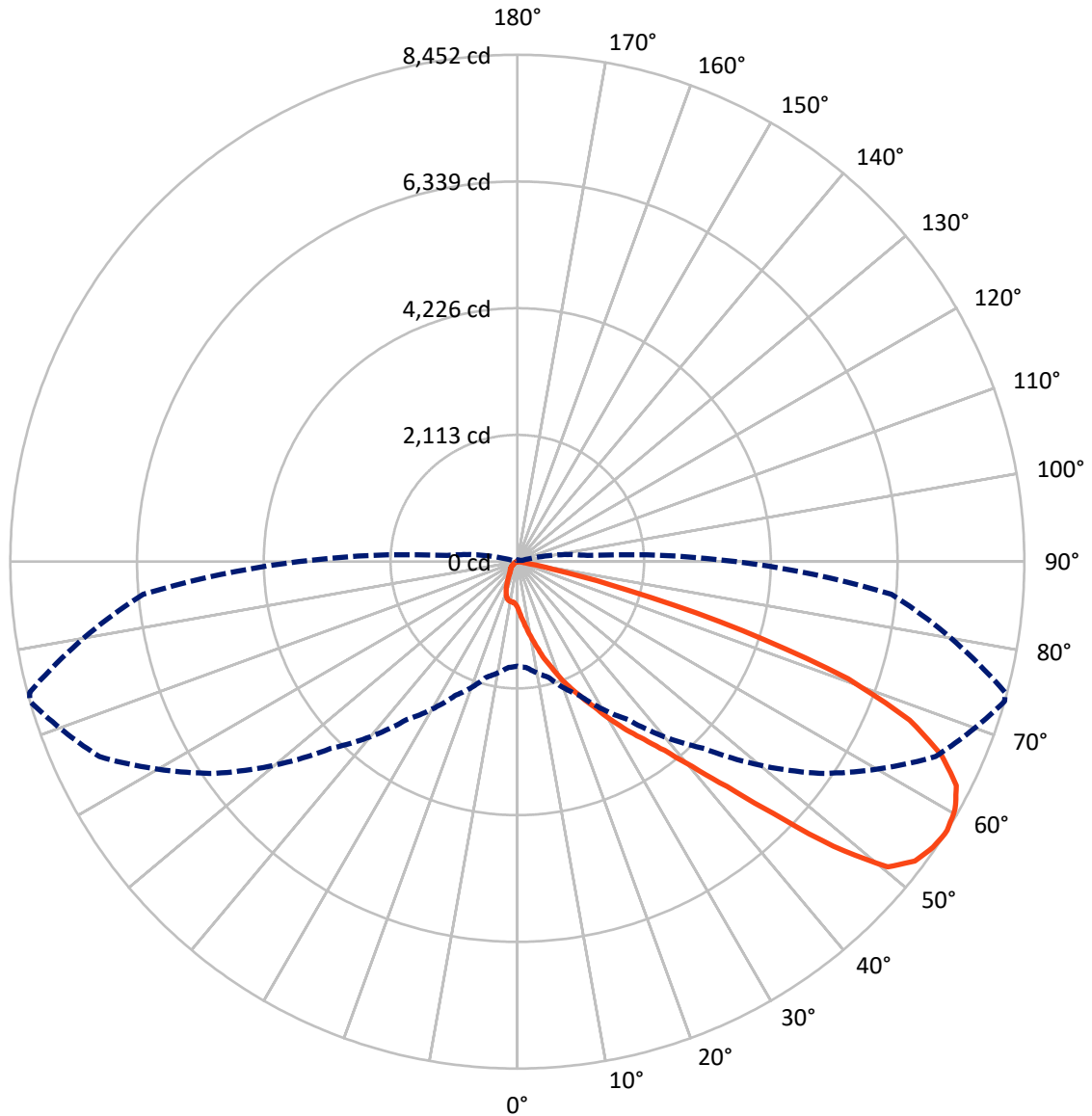
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.2	0.0	527.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8613.8	0.0	8613.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	9141.0	0.0	9141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.0
10°-20°	364.2	4.0
20°-30°	779.3	8.5
30°-40°	1432.4	15.7
40°-50°	2195.9	24.0
50°-60°	2323.0	25.4
60°-70°	1517.0	16.6
70°-80°	414.5	4.5
80°-90°	22.3	0.2
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°	9141.0	100.0
0°-180°	9141.0	100.0

Coefficient of Utilization

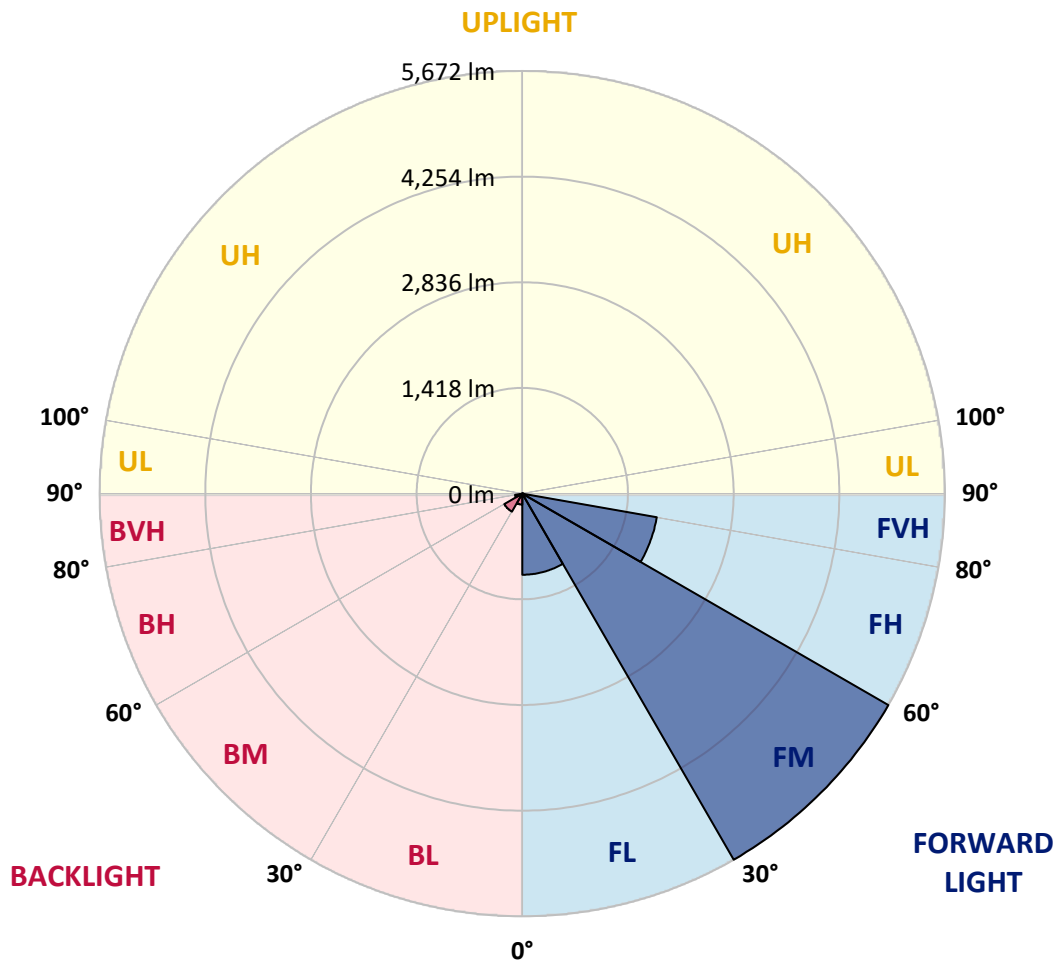


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.7	11.9			
FM (30°-60°)	5672.2	62.1			
FH (60°-80°)	1832.5	20.0			G2/5000
FVH (80°-90°)	20.5	0.2			G1/100
BL (0°-30°)	147.3	1.6	B1/500		
BM (30°-60°)	279.1	3.1	B1/1000		
BH (60°-80°)	99.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	1120.2	1110.1	1089.9	1083.0	1053.3	1007.3	966.9	912.6	869.7	865.3	813.5
5°	1500.2	1477.4	1468.0	1422.5	1351.2	1284.3	1169.5	1082.4	982.0	974.4	870.3
7.5°	1866.2	1834.7	1825.2	1782.3	1699.0	1593.6	1444.6	1286.2	1127.2	1112.7	946.7
10°	2131.3	2135.7	2118.7	2090.3	2022.7	1915.4	1731.8	1515.3	1288.7	1270.4	1032.5
12.5°	2321.3	2320.6	2323.8	2323.1	2287.2	2205.8	2012.6	1763.3	1466.7	1430.7	1131.0
15°	2445.0	2446.8	2456.3	2489.1	2492.9	2442.4	2281.5	2000.6	1673.1	1628.3	1237.6
17.5°	2569.9	2583.2	2598.3	2629.2	2657.0	2636.8	2523.2	2248.0	1859.9	1826.5	1351.9
20°	2776.3	2794.6	2785.8	2804.7	2819.2	2821.1	2733.4	2476.5	2086.5	2030.3	1482.5
22.5°	3106.4	3105.7	3083.0	3048.9	3020.5	3019.3	2939.8	2711.3	2292.2	2237.9	1613.8
25°	3523.5	3525.4	3481.3	3384.1	3313.4	3226.9	3135.4	2917.0	2512.5	2445.6	1752.0
27.5°	4001.9	3989.9	3923.0	3789.2	3649.1	3501.4	3369.5	3156.2	2746.0	2690.5	1910.4
30°	4431.7	4427.3	4349.0	4185.6	4001.3	3853.0	3661.8	3456.0	3048.3	2980.1	2087.7
32.5°	4831.8	4838.2	4729.6	4560.5	4382.5	4211.5	4009.5	3742.5	3344.9	3248.4	2280.9
35°	5144.2	5150.6	5038.2	4897.5	4714.5	4572.5	4380.0	4048.0	3637.8	3556.4	2503.0
37.5°	5310.9	5319.1	5254.1	5148.0	5033.8	4962.5	4783.2	4441.2	3993.7	3944.5	2765.6
40°	5342.4	5351.9	5323.5	5295.1	5288.8	5339.9	5287.5	4904.4	4487.3	4410.3	3156.9
42.5°	5247.8	5260.4	5273.0	5336.1	5464.9	5652.3	5834.7	5533.0	5122.8	5019.3	3635.2
45°	4999.1	4997.8	5047.7	5211.1	5499.6	5899.7	6406.5	6320.0	5988.7	5865.6	4311.2
47.5°	4573.7	4567.4	4675.3	4908.2	5357.6	5945.1	6872.9	7275.5	7093.8	6980.2	5037.6
50°	3925.6	3956.5	4126.3	4451.3	5004.8	5807.6	7016.8	7902.2	8000.7	7880.1	5624.5
52.5°	3166.3	3165.1	3431.4	3872.5	4482.2	5504.6	6916.4	8015.8	8295.4	8203.3	5913.6
55°	2343.3	2359.8	2636.8	3081.8	3803.8	4951.8	6588.9	7899.1	8407.8	8342.8	6104.2
57°	1743.1	1772.2	1994.3	2465.1	3213.0	4404.6	6152.8	7690.2	8451.9	8416.6	6262.6
57.5°	1627.0	1628.3	1844.8	2272.7	3040.1	4194.4	6027.8	7603.1	8450.7	8431.1	6288.5
60°	1001.6	1033.1	1182.7	1536.1	2225.3	3273.6	5190.3	7102.6	8385.0	8413.4	6398.9
62.5°	599.6	612.8	710.0	925.9	1434.5	2389.4	4247.4	6462.0	8214.0	8300.5	6391.3
65°	385.6	388.8	432.9	560.4	896.8	1615.0	3273.0	5615.7	7771.6	7930.6	6141.4
67.5°	297.9	302.9	320.6	367.9	520.0	1006.0	2314.9	4712.6	7055.9	7261.0	5535.5
70°	264.4	267.0	273.3	288.4	344.0	568.0	1440.2	3681.3	5851.1	5909.2	4332.0
72.5°	215.8	222.8	242.3	247.4	272.6	354.7	801.5	2470.8	3931.2	3945.8	2423.5
75°	167.2	168.5	197.5	212.1	229.7	244.2	357.8	1245.8	1888.3	1787.3	934.1
77.5°	125.0	130.6	143.9	162.2	187.4	174.8	160.3	469.6	586.3	575.6	271.4
80°	80.2	83.3	100.3	121.8	145.8	114.2	90.2	137.6	128.7	132.5	65.0
82.5°	40.4	41.0	64.4	99.1	92.8	57.4	56.8	56.2	48.0	47.3	30.3
85°	4.4	9.5	41.7	56.8	41.7	18.9	26.5	25.9	25.2	25.9	17.7
87.5°	0.6	0.6	6.9	8.2	5.7	6.3	7.6	8.2	10.1	9.5	7.6
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°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	788.3	763.0	716.3	671.5	638.1	616.6	588.8	578.7	564.2	562.3	555.4
5°	822.3	774.4	693.0	628.6	576.8	537.7	503.6	475.2	452.5	447.5	450.0
7.5°	870.9	799.6	686.0	598.3	526.4	459.5	405.2	371.7	347.7	338.9	340.2
10°	925.9	833.1	684.8	566.1	456.3	374.3	314.9	285.3	271.4	266.3	260.7
12.5°	990.9	871.6	681.6	516.3	379.3	298.5	256.2	238.6	225.3	221.5	221.5
15°	1064.1	912.6	666.5	454.4	308.0	246.8	218.4	204.5	200.1	196.3	196.3
17.5°	1140.4	953.0	634.9	378.0	255.6	211.4	193.8	185.5	179.2	174.8	174.8
20°	1227.5	992.7	584.4	310.5	215.8	188.7	174.8	165.4	160.3	156.5	155.3
22.5°	1310.2	1024.9	520.0	255.0	188.1	169.8	157.1	147.1	142.0	140.1	140.1
25°	1396.0	1044.5	442.4	210.8	171.7	154.0	140.1	131.9	127.5	126.2	125.6
27.5°	1479.3	1055.9	374.3	184.3	156.5	139.5	126.2	119.9	115.5	114.2	114.9
30°	1580.3	1057.8	308.0	165.4	143.3	125.6	113.6	107.9	105.4	104.1	103.5
32.5°	1682.6	1055.2	258.8	154.0	130.6	113.6	103.5	99.1	97.2	95.3	95.3
35°	1797.4	1042.0	220.3	142.6	118.7	103.5	94.7	90.9	88.4	86.5	85.8
37.5°	1940.1	1035.0	198.2	130.0	107.9	94.0	85.8	82.0	80.2	77.6	77.0
40°	2164.7	1066.0	191.2	118.7	97.2	85.2	77.6	73.2	70.7	68.2	67.5
42.5°	2445.0	1120.2	179.9	107.3	87.7	77.0	69.4	64.4	60.0	56.8	55.5
45°	2807.8	1191.6	162.2	95.3	79.5	68.2	61.2	54.9	49.2	46.7	46.1
47.5°	3188.4	1260.3	146.4	85.8	70.7	60.6	53.0	46.1	41.0	39.1	38.5
50°	3421.9	1274.2	136.3	75.1	61.8	52.4	44.8	38.5	35.3	33.4	33.4
52.5°	3528.6	1252.1	122.4	65.6	53.6	46.1	38.5	33.4	31.6	30.3	29.7
55°	3603.1	1218.1	104.1	56.8	46.1	39.1	34.1	30.3	27.8	26.5	25.9
57°	3646.6	1172.0	90.2	49.9	39.8	34.1	30.3	27.1	24.6	22.1	22.1
57.5°	3648.5	1154.3	86.5	49.2	37.9	32.8	29.7	26.5	23.4	20.8	20.2
60°	3592.3	1033.1	69.4	41.7	30.3	27.8	24.6	20.8	16.4	13.9	13.3
62.5°	3411.8	879.1	57.4	35.3	24.6	21.5	17.7	15.8	11.4	8.2	8.2
65°	3138.6	713.2	49.2	28.4	20.2	15.8	12.0	11.4	6.9	3.8	3.2
67.5°	2743.5	555.4	41.7	23.4	17.0	11.4	8.2	7.6	3.8	1.3	0.0
70°	2090.3	378.7	34.7	18.9	12.6	8.2	5.7	4.4	2.5	0.6	0.0
72.5°	1204.8	208.3	29.0	14.5	9.5	6.3	4.4	2.5	2.5	0.0	0.0
75°	430.4	89.6	22.1	10.7	7.6	5.0	3.2	1.3	1.9	0.6	0.0
77.5°	137.0	48.0	14.5	8.2	6.3	3.8	2.5	1.3	1.3	0.6	0.0
80°	40.4	25.2	8.8	6.9	4.4	3.2	1.9	0.6	1.3	0.6	0.0
82.5°	22.1	12.6	6.9	5.0	4.4	2.5	1.9	0.6	0.6	0.6	0.0
85°	11.4	7.6	5.7	5.0	4.4	2.5	1.9	0.6	0.0	0.6	0.6
87.5°	6.3	5.7	5.7	5.0	4.4	3.2	1.9	0.6	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)