

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: P455920

Luminaire Tested: **GALN-SA7A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17504 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

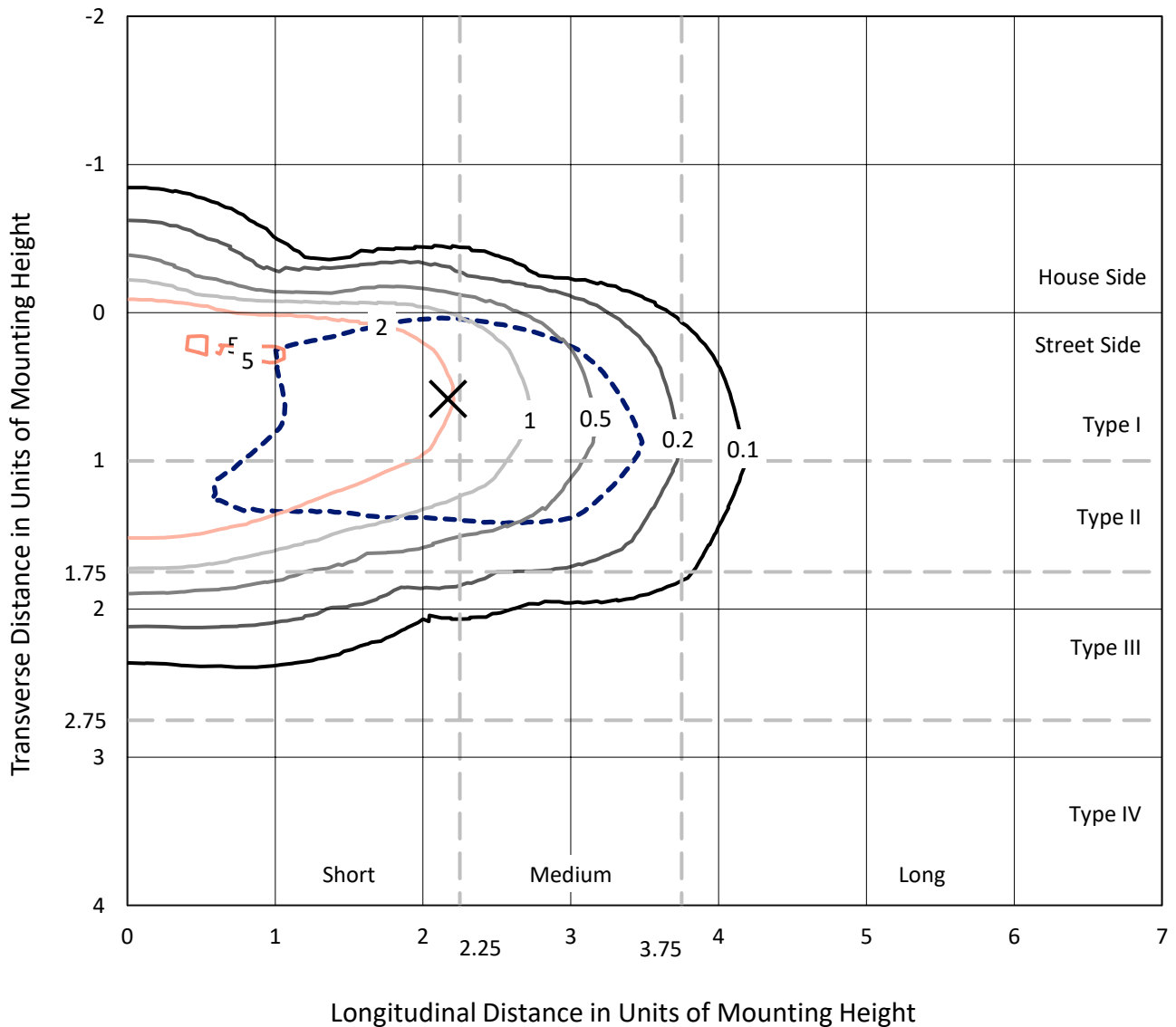
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

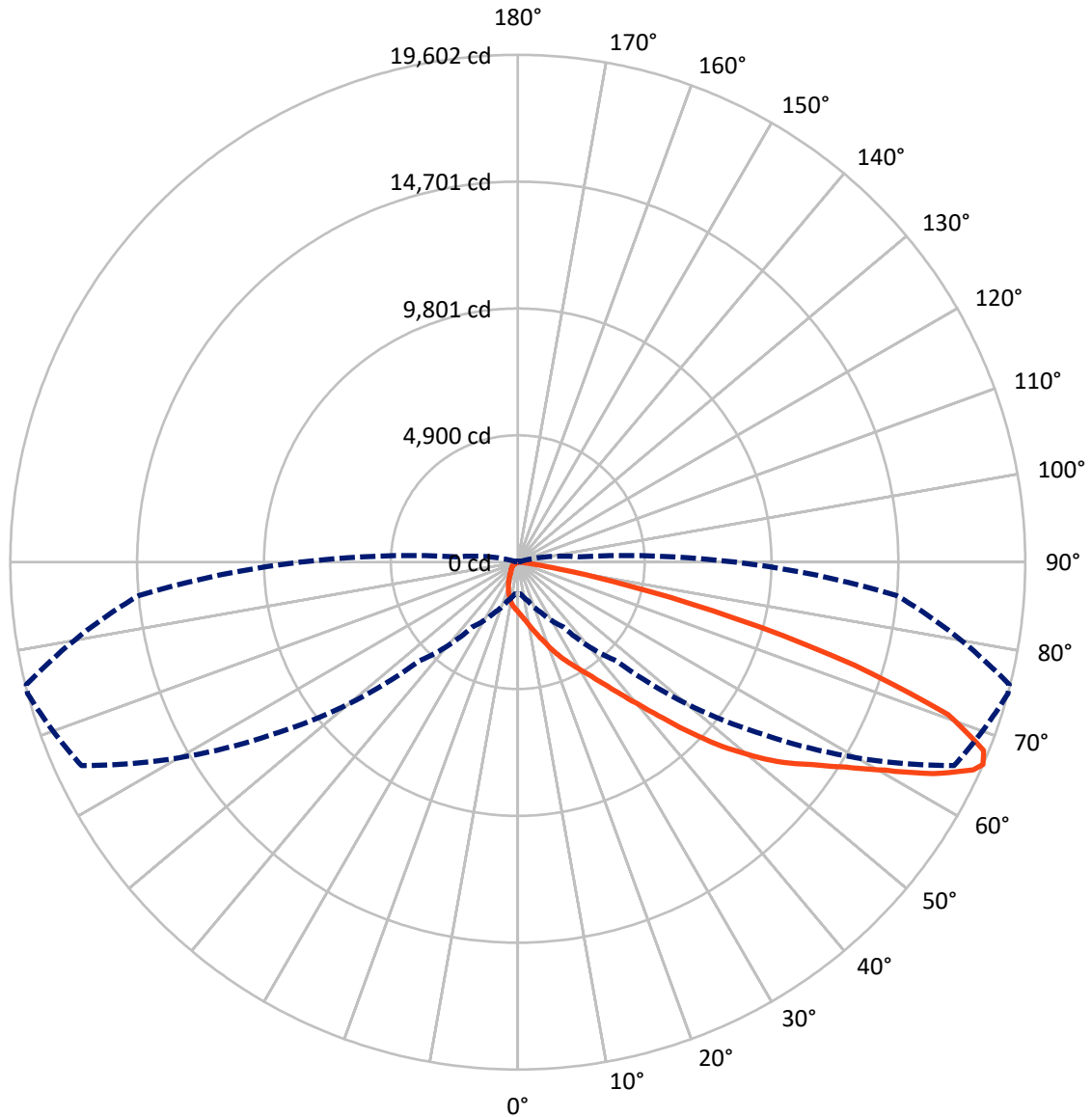
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.6	0.0	1080.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16423.4	0.0	16423.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	17504.0	0.0	17504.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.1
10°-20°	543.4	3.1
20°-30°	938.3	5.4
30°-40°	1692.5	9.7
40°-50°	3057.5	17.5
50°-60°	4766.7	27.2
60°-70°	4528.2	25.9
70°-80°	1697.1	9.7
80°-90°	95.8	0.5
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°	17504.0	100.0
0°-180°	17504.0	100.0



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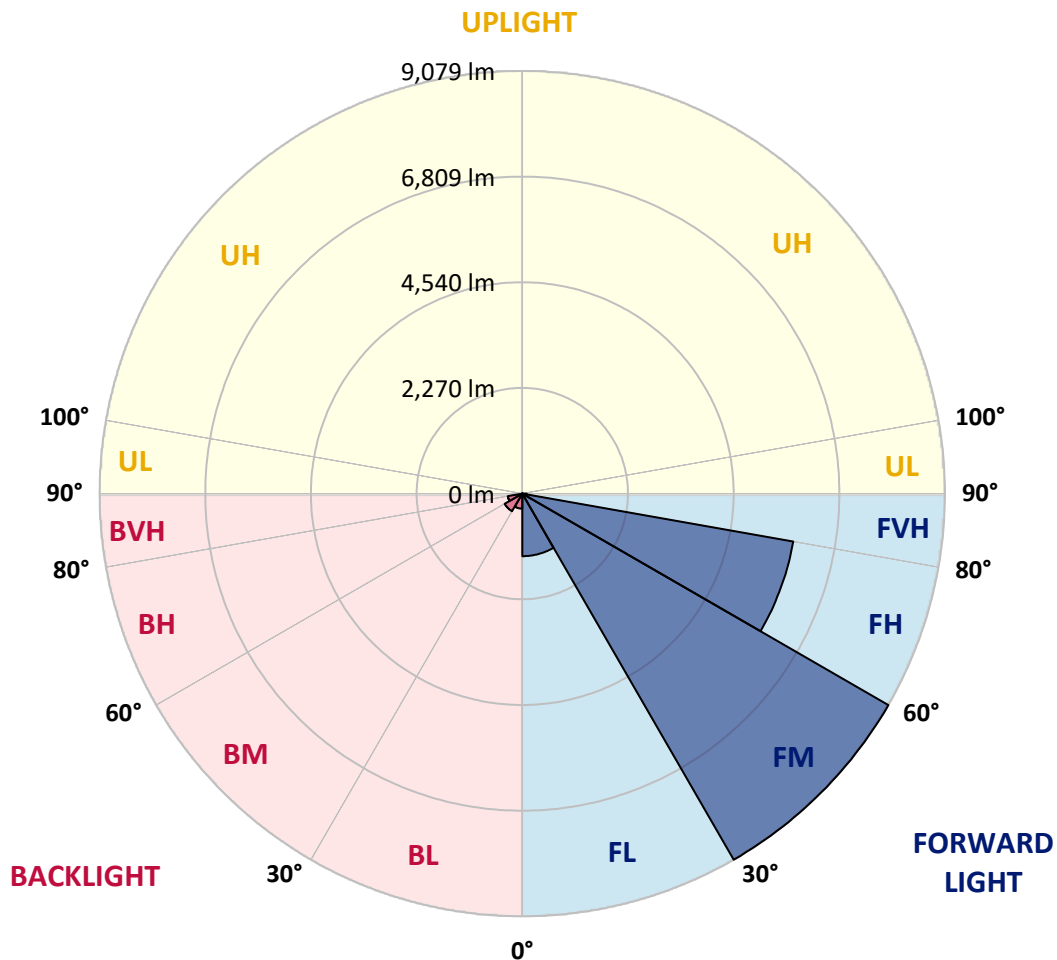
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.6	7.7			
FM (30°-60°)	9079.3	51.9			
FH (60°-80°)	5909.7	33.8			G3/7500
FVH (80°-90°)	90.8	0.5			G1/100
BL (0°-30°)	322.7	1.8	B1/500		
BM (30°-60°)	437.4	2.5	B1/1000		
BH (60°-80°)	315.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	2287.0	2258.5	2267.6	2254.6	2224.9	2180.9	2142.0	2086.4	2030.7	2021.7	1959.5
5°	2588.6	2580.8	2570.4	2532.9	2512.2	2444.9	2364.6	2268.9	2153.7	2133.0	2020.4
7.5°	2794.3	2790.5	2795.6	2776.2	2758.1	2697.3	2611.9	2481.1	2302.5	2290.9	2103.2
10°	2861.6	2872.0	2891.4	2922.5	2951.0	2931.5	2866.8	2703.7	2495.4	2461.7	2197.7
12.5°	2822.8	2834.5	2881.1	2963.9	3055.8	3108.9	3083.0	2963.9	2699.9	2672.7	2303.8
15°	2723.2	2737.4	2803.4	2931.5	3095.9	3246.0	3310.8	3225.3	2938.0	2894.0	2431.9
17.5°	2575.6	2596.3	2690.8	2860.4	3085.6	3344.4	3526.9	3498.4	3191.7	3150.3	2571.7
20°	2464.3	2479.8	2560.1	2754.2	3041.6	3398.8	3732.7	3812.9	3504.9	3433.7	2736.1
22.5°	2538.1	2543.3	2570.4	2686.9	2962.6	3413.0	3913.9	4140.4	3837.5	3774.1	2906.9
25°	2899.2	2847.4	2820.2	2794.3	2945.8	3400.1	4078.3	4482.1	4168.9	4101.6	3076.5
27.5°	3468.7	3445.4	3308.2	3124.4	3089.4	3416.9	4187.0	4805.6	4480.8	4408.3	3242.2
30°	4088.6	4048.5	3964.4	3695.2	3424.7	3536.0	4265.9	5120.2	4849.7	4753.9	3393.6
32.5°	4658.1	4684.0	4558.4	4281.5	3968.3	3789.6	4368.2	5463.1	5272.9	5153.8	3569.6
35°	5322.1	5373.8	5181.0	4915.7	4549.4	4247.8	4567.5	5850.1	5810.0	5659.9	3841.4
37.5°	5996.4	6027.4	5909.7	5536.9	5206.9	4830.2	4942.8	6327.7	6471.4	6343.3	4166.3
40°	6563.3	6606.0	6519.3	6187.9	5835.9	5504.6	5487.7	6848.0	7258.3	7126.3	4650.3
42.5°	6996.9	7029.2	7031.8	6797.5	6480.4	6330.3	6182.8	7512.0	8244.5	8091.8	5212.1
45°	7544.3	7590.9	7563.8	7404.6	7167.7	7140.5	7064.2	8314.4	9424.9	9232.1	5940.7
47.5°	8390.8	8421.9	8354.6	8166.9	7926.2	7968.9	7923.6	9214.0	10628.6	10462.9	6695.3
50°	8978.4	9030.2	9125.9	9201.0	9026.3	8868.4	8733.8	10053.9	11771.4	11622.6	7466.7
52.5°	8971.9	9057.3	9360.2	9738.1	10120.0	10072.1	9685.1	10981.9	12862.5	12678.7	8191.5
55°	8367.5	8533.2	8978.4	9648.8	10706.3	11233.0	11057.0	12056.2	13804.8	13680.5	9031.5
57.5°	7119.8	7220.8	7839.4	8776.5	10378.8	11779.2	12646.4	13512.3	14934.7	14876.4	10336.1
60°	4788.8	4834.1	5630.1	6788.5	8836.0	11234.3	13811.2	15273.8	16326.0	16297.5	11859.5
62.5°	2743.9	2763.3	3340.5	4317.7	6287.6	9520.7	13909.6	17446.9	17994.3	18009.9	13622.3
65°	1476.8	1487.1	1953.1	2534.2	3825.9	6785.9	12507.9	18637.6	19343.0	19372.7	14714.6
66°	1274.9	1225.7	1554.4	2160.1	3044.1	5401.0	11621.3	18594.9	19601.8	19569.5	14675.8
67.5°	969.4	1013.4	1241.2	1660.6	2255.9	3840.1	9594.5	17767.8	19405.1	19304.1	14079.1
70°	693.7	711.9	884.0	1184.3	1536.3	2107.1	6131.0	14757.3	17637.1	17501.2	12265.9
72.5°	447.8	467.2	626.4	856.8	1110.5	1150.6	3432.4	10662.3	13597.7	13578.3	9237.3
75°	319.7	337.8	414.2	613.5	834.8	711.9	1652.8	7185.8	8644.5	8586.2	5714.2
77.5°	231.7	240.7	277.0	401.2	596.7	509.9	766.2	3837.5	4303.5	4506.7	2525.1
80°	133.3	141.1	192.8	244.6	403.8	348.2	366.3	1540.2	1588.1	1511.7	789.5
82.5°	66.0	75.1	115.2	167.0	252.4	234.3	168.3	463.4	489.2	476.3	199.3
85°	15.5	19.4	64.7	110.0	123.0	104.8	81.5	135.9	168.3	164.4	76.4
87.5°	1.3	2.6	23.3	19.4	20.7	34.9	28.5	34.9	54.4	50.5	27.2
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°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1931.1	1906.5	1835.3	1765.4	1707.2	1646.3	1590.7	1558.3	1545.4	1531.1	1537.6
5°	1958.2	1898.7	1755.0	1630.8	1509.1	1405.6	1322.8	1269.7	1243.8	1239.9	1233.4
7.5°	1994.5	1892.2	1669.6	1475.5	1316.3	1201.1	1106.6	1030.2	1006.9	986.2	969.4
10°	2038.5	1880.6	1563.5	1312.4	1142.8	997.9	873.6	783.0	736.4	723.5	732.6
12.5°	2085.1	1858.6	1452.2	1162.3	966.8	781.7	666.6	621.3	608.3	603.1	604.4
15°	2131.7	1831.4	1335.7	1017.3	770.1	623.8	570.8	559.1	554.0	551.4	548.8
17.5°	2174.4	1787.4	1205.0	876.2	623.8	533.2	513.8	503.5	493.1	489.2	482.8
20°	2224.9	1736.9	1087.2	718.3	528.1	482.8	459.5	440.1	424.5	414.2	412.9
22.5°	2272.8	1672.2	964.2	595.4	481.5	433.6	396.0	375.3	357.2	344.3	348.2
25°	2298.6	1593.3	854.2	519.0	438.8	384.4	343.0	317.1	297.7	291.2	289.9
27.5°	2298.6	1496.2	746.8	475.0	399.9	340.4	297.7	273.1	260.1	251.1	252.4
30°	2280.5	1388.8	647.1	441.3	366.3	301.6	261.4	239.4	229.1	222.6	221.3
32.5°	2266.3	1286.5	561.7	409.0	331.3	267.9	233.0	216.1	205.8	199.3	199.3
35°	2288.3	1198.5	495.7	376.6	299.0	242.0	211.0	195.4	185.1	179.9	178.6
37.5°	2346.5	1118.3	445.2	341.7	269.2	220.0	195.4	177.3	167.0	160.5	157.9
40°	2490.2	1073.0	407.7	309.3	240.7	201.9	177.3	160.5	147.5	141.1	139.8
42.5°	2720.6	1074.2	371.5	279.6	218.7	186.4	161.8	142.4	128.1	121.7	120.4
45°	3067.4	1123.4	343.0	251.1	199.3	169.6	145.0	124.3	111.3	104.8	104.8
47.5°	3482.9	1219.2	318.4	226.5	181.2	154.0	128.1	107.4	94.5	89.3	89.3
50°	3933.3	1343.5	293.8	200.6	165.7	137.2	110.0	93.2	82.8	79.0	79.0
52.5°	4392.8	1493.6	269.2	179.9	148.8	119.1	94.5	82.8	73.8	71.2	69.9
55°	4995.9	1685.1	243.3	157.9	130.7	102.2	84.1	72.5	62.1	58.2	56.9
57.5°	5923.9	1973.8	214.8	138.5	107.4	85.4	72.5	60.8	49.2	42.7	41.4
60°	7043.5	2325.8	185.1	121.7	86.7	69.9	58.2	46.6	36.2	28.5	27.2
62.5°	8091.8	2549.7	156.6	102.2	68.6	53.1	41.4	34.9	25.9	18.1	16.8
65°	8555.2	2474.7	129.4	82.8	54.4	37.5	27.2	24.6	15.5	7.8	6.5
66°	8401.2	2363.3	119.1	75.1	49.2	32.4	23.3	20.7	11.6	3.9	3.9
67.5°	7946.9	2100.6	103.5	64.7	42.7	25.9	18.1	15.5	6.5	1.3	0.0
70°	6809.2	1699.4	81.5	47.9	31.1	18.1	10.4	7.8	3.9	0.0	0.0
72.5°	5230.2	1265.8	64.7	36.2	22.0	10.4	5.2	2.6	3.9	0.0	0.0
75°	3204.6	723.5	50.5	27.2	14.2	6.5	3.9	0.0	3.9	1.3	0.0
77.5°	1422.4	324.9	33.7	18.1	10.4	5.2	2.6	0.0	2.6	1.3	0.0
80°	359.8	106.1	19.4	12.9	7.8	3.9	1.3	0.0	2.6	2.6	1.3
82.5°	98.4	38.8	14.2	10.4	6.5	3.9	1.3	0.0	2.6	2.6	2.6
85°	38.8	18.1	12.9	10.4	7.8	3.9	1.3	0.0	2.6	2.6	2.6
87.5°	18.1	12.9	12.9	11.6	9.1	3.9	1.3	0.0	2.6	1.3	2.6
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)