

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: P455224

Luminaire Tested: **GALN-SA6B-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455224
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-SA6B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 18543 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

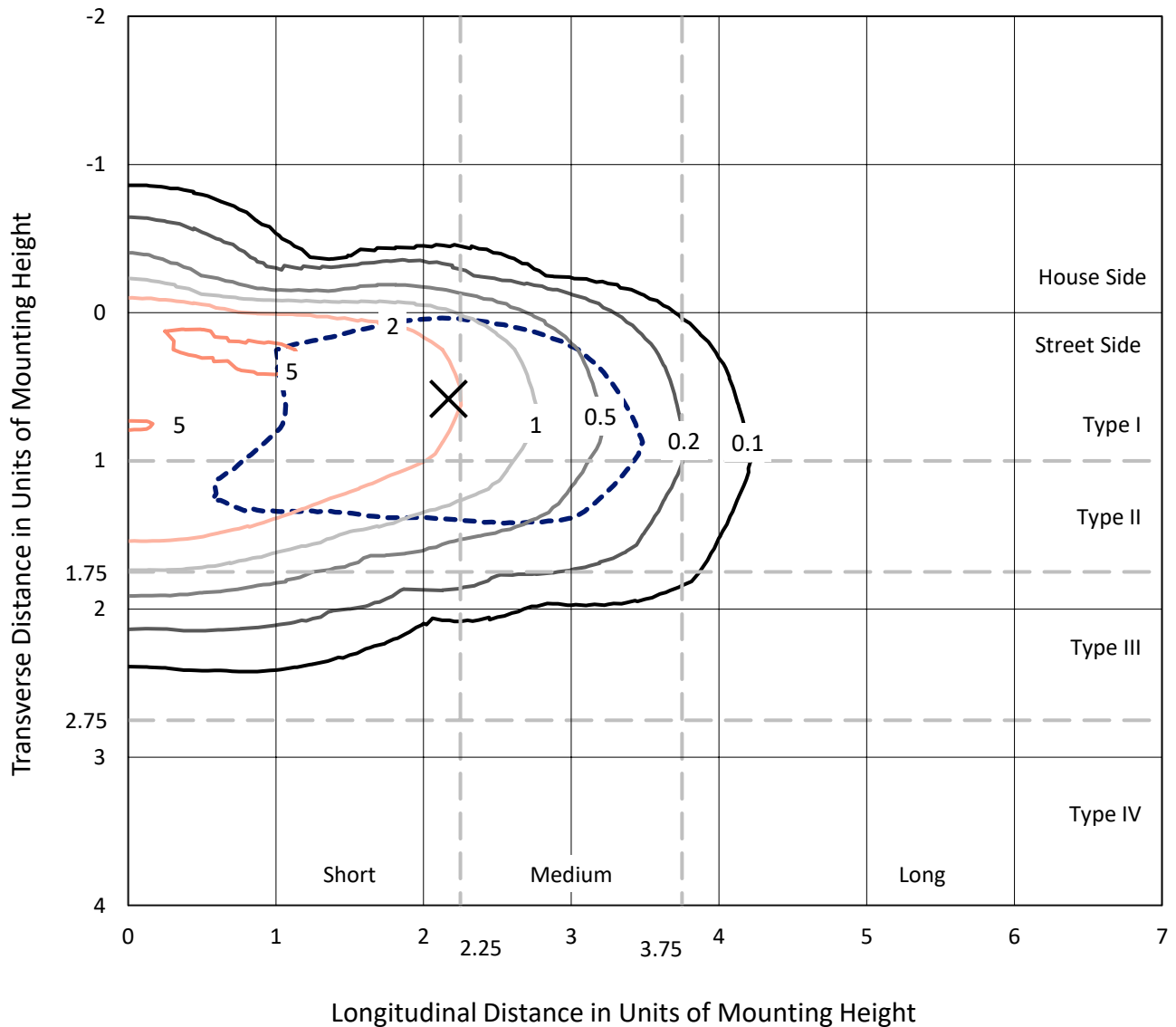
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

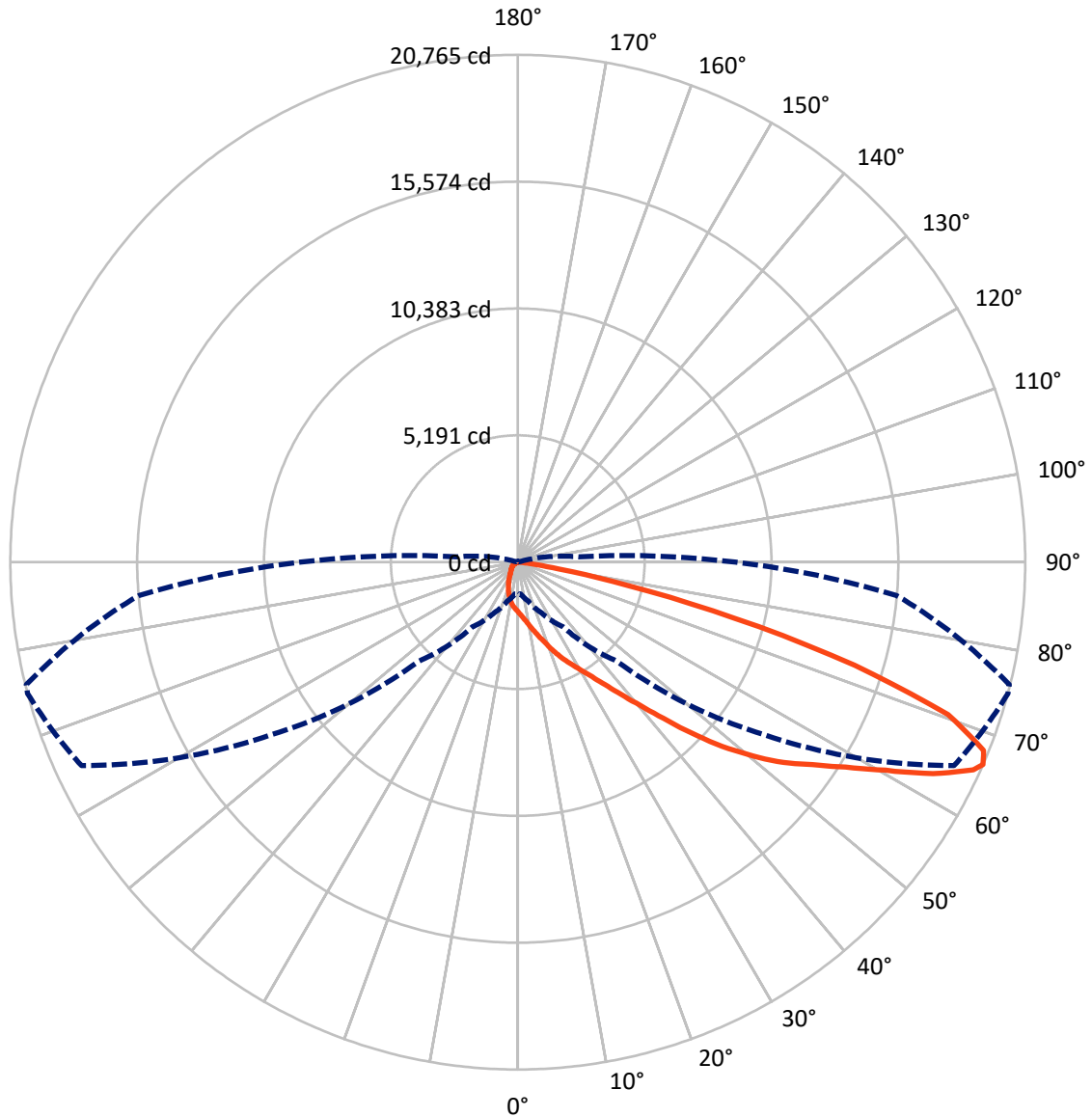
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1144.8	0.0	1144.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17398.2	0.0	17398.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	18543.0	0.0	18543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	1.1
10°-20°	575.6	3.1
20°-30°	994.0	5.4
30°-40°	1793.0	9.7
40°-50°	3239.0	17.5
50°-60°	5049.6	27.2
60°-70°	4797.0	25.9
70°-80°	1797.8	9.7
80°-90°	101.4	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°	18543.0	100.0
0°-180°	18543.0	100.0

Coefficient of Utilization



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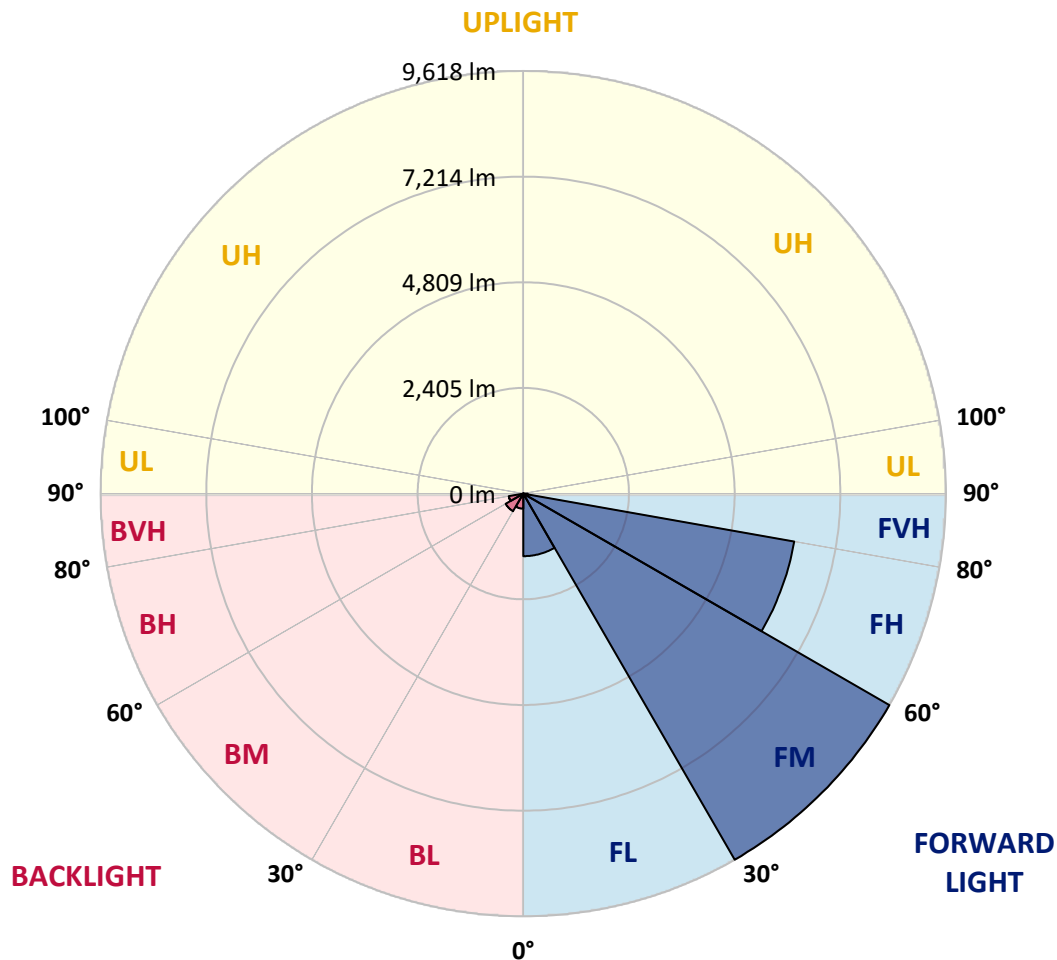
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.3	7.7			
FM (30°-60°)	9618.2	51.9			
FH (60°-80°)	6260.5	33.8			G3/7500
FVH (80°-90°)	96.2	0.5			G1/100
BL (0°-30°)	341.9	1.8	B1/500		
BM (30°-60°)	463.4	2.5	B1/1000		
BH (60°-80°)	334.3	1.8	B1/500		G1/500
BVH (80°-90°)	5.2	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°	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9
2.5°	2422.7	2392.6	2402.2	2388.5	2356.9	2310.3	2269.2	2210.2	2151.3	2141.7	2075.8
5°	2742.2	2734.0	2723.0	2683.2	2661.3	2590.0	2505.0	2403.5	2281.5	2259.6	2140.3
7.5°	2960.2	2956.1	2961.6	2941.0	2921.8	2857.4	2766.9	2628.4	2439.2	2426.9	2228.0
10°	3031.5	3042.5	3063.0	3095.9	3126.1	3105.5	3037.0	2864.2	2643.5	2607.8	2328.1
12.5°	2990.4	3002.7	3052.1	3139.8	3237.2	3293.4	3266.0	3139.8	2860.1	2831.3	2440.6
15°	2884.8	2899.9	2969.8	3105.5	3279.7	3438.7	3507.3	3416.8	3112.4	3065.8	2576.3
17.5°	2728.5	2750.4	2850.5	3030.1	3268.7	3542.9	3736.3	3706.1	3381.1	3337.3	2724.4
20°	2610.6	2627.0	2712.0	2917.7	3222.1	3600.5	3954.3	4039.3	3712.9	3637.5	2898.5
22.5°	2688.7	2694.2	2723.0	2846.4	3138.5	3615.6	4146.2	4386.2	4065.3	3998.1	3079.5
25°	3071.3	3016.4	2987.6	2960.2	3120.6	3601.9	4320.3	4748.1	4416.3	4345.0	3259.1
27.5°	3674.6	3649.9	3504.5	3309.8	3272.8	3619.7	4435.5	5090.9	4746.8	4670.0	3434.6
30°	4331.3	4288.8	4199.7	3914.5	3627.9	3745.9	4519.2	5424.1	5137.5	5036.1	3595.0
32.5°	4934.6	4962.0	4829.0	4535.6	4203.8	4014.6	4627.5	5787.4	5585.9	5459.7	3781.5
35°	5638.0	5692.8	5488.5	5207.4	4819.4	4500.0	4838.6	6197.4	6154.9	5995.8	4069.4
37.5°	6352.3	6385.2	6260.5	5865.6	5515.9	5117.0	5236.2	6703.3	6855.5	6719.8	4413.6
40°	6952.9	6998.1	6906.2	6555.2	6182.3	5831.3	5813.5	7254.5	7689.1	7549.3	4926.4
42.5°	7412.2	7446.5	7449.2	7201.0	6865.1	6706.1	6549.8	7957.9	8733.9	8572.1	5521.4
45°	7992.2	8041.5	8012.7	7844.1	7593.2	7564.4	7483.5	8808.0	9984.4	9780.1	6293.4
47.5°	8888.9	8921.8	8850.5	8651.7	8396.6	8441.9	8393.9	9760.9	11259.5	11084.0	7092.7
50°	9511.3	9566.2	9667.6	9747.2	9562.1	9394.8	9252.2	10650.7	12470.2	12312.5	7909.9
52.5°	9504.5	9595.0	9915.8	10316.2	10720.6	10669.9	10260.0	11633.8	13626.0	13431.3	8677.7
55°	8864.2	9039.7	9511.3	10221.6	11341.8	11899.8	11713.3	12771.8	14624.2	14492.6	9567.6
57.5°	7542.4	7649.4	8304.8	9297.4	10994.9	12478.4	13397.0	14314.3	15821.1	15759.5	10949.6
60°	5073.1	5121.1	5964.3	7191.4	9360.5	11901.2	14631.0	16180.4	17295.1	17264.9	12563.4
62.5°	2906.7	2927.3	3538.8	4574.0	6660.8	10085.8	14735.2	18482.5	19062.4	19078.9	14430.9
65°	1564.4	1575.4	2069.0	2684.6	4053.0	7188.7	13250.3	19743.9	20491.1	20522.7	15588.1
66°	1350.5	1298.4	1646.7	2288.4	3224.8	5721.6	12311.1	19698.6	20765.3	20731.1	15546.9
67.5°	1027.0	1073.6	1314.9	1759.1	2389.8	4068.1	10164.0	18822.5	20556.9	20450.0	14914.9
70°	734.9	754.1	936.5	1254.6	1627.5	2232.2	6494.9	15633.3	18684.0	18540.0	12993.9
72.5°	474.4	495.0	663.6	907.7	1176.4	1218.9	3636.2	11295.1	14404.8	14384.2	9785.6
75°	338.7	357.9	438.8	649.9	884.4	754.1	1750.9	7612.4	9157.6	9095.9	6053.4
77.5°	245.4	255.0	293.4	425.0	632.1	540.2	811.7	4065.3	4558.9	4774.2	2675.0
80°	141.2	149.5	204.3	259.1	427.8	368.8	388.0	1631.6	1682.3	1601.4	836.4
82.5°	69.9	79.5	122.0	176.9	267.4	248.2	178.2	490.9	518.3	504.6	211.1
85°	16.5	20.6	68.6	116.5	130.3	111.1	86.4	144.0	178.2	174.1	80.9
87.5°	1.4	2.7	24.7	20.6	21.9	37.0	30.2	37.0	57.6	53.5	28.8
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°	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9	2027.9
2.5°	2045.7	2019.6	1944.2	1870.2	1808.5	1744.0	1685.1	1650.8	1637.1	1622.0	1628.9
5°	2074.5	2011.4	1859.2	1727.6	1598.7	1489.0	1401.3	1345.1	1317.6	1313.5	1306.7
7.5°	2112.9	2004.6	1768.7	1563.1	1394.4	1272.4	1172.3	1091.4	1066.7	1044.8	1027.0
10°	2159.5	1992.2	1656.3	1390.3	1210.7	1057.1	925.5	829.5	780.2	766.4	776.0
12.5°	2208.8	1968.9	1538.4	1231.2	1024.2	828.1	706.1	658.1	644.4	638.9	640.3
15°	2258.2	1940.1	1415.0	1077.7	815.8	660.9	604.7	592.3	586.8	584.1	581.3
17.5°	2303.5	1893.5	1276.5	928.2	660.9	564.9	544.3	533.4	522.4	518.3	511.4
20°	2356.9	1840.0	1151.7	761.0	559.4	511.4	486.7	466.2	449.7	438.8	437.4
22.5°	2407.7	1771.5	1021.5	630.7	510.1	459.3	419.6	397.6	378.4	364.7	368.8
25°	2435.1	1687.8	904.9	549.8	464.8	407.2	363.3	335.9	315.4	308.5	307.1
27.5°	2435.1	1585.0	791.1	503.2	423.7	360.6	315.4	289.3	275.6	266.0	267.4
30°	2415.9	1471.2	685.6	467.5	388.0	319.5	277.0	253.7	242.7	235.8	234.5
32.5°	2400.8	1362.9	595.1	433.3	351.0	283.8	246.8	229.0	218.0	211.1	211.1
35°	2424.1	1269.6	525.1	399.0	316.7	256.4	223.5	207.0	196.1	190.6	189.2
37.5°	2485.8	1184.6	471.7	362.0	285.2	233.1	207.0	187.8	176.9	170.0	167.3
40°	2638.0	1136.6	431.9	327.7	255.0	213.9	187.8	170.0	156.3	149.5	148.1
42.5°	2882.1	1138.0	393.5	296.2	231.7	197.4	171.4	150.8	135.7	128.9	127.5
45°	3249.5	1190.1	363.3	266.0	211.1	179.6	153.6	131.6	117.9	111.1	111.1
47.5°	3689.6	1291.6	337.3	239.9	192.0	163.2	135.7	113.8	100.1	94.6	94.6
50°	4166.8	1423.2	311.2	212.5	175.5	145.3	116.5	98.7	87.8	83.6	83.6
52.5°	4653.5	1582.3	285.2	190.6	157.7	126.1	100.1	87.8	78.2	75.4	74.0
55°	5292.5	1785.2	257.8	167.3	138.5	108.3	89.1	76.8	65.8	61.7	60.3
57.5°	6275.5	2090.9	227.6	146.7	113.8	90.5	76.8	64.4	52.1	45.2	43.9
60°	7461.5	2463.9	196.1	128.9	91.9	74.0	61.7	49.4	38.4	30.2	28.8
62.5°	8572.1	2701.1	165.9	108.3	72.7	56.2	43.9	37.0	27.4	19.2	17.8
65°	9063.0	2621.5	137.1	87.8	57.6	39.8	28.8	26.1	16.5	8.2	6.9
66°	8899.8	2503.6	126.1	79.5	52.1	34.3	24.7	21.9	12.3	4.1	4.1
67.5°	8418.6	2225.3	109.7	68.6	45.2	27.4	19.2	16.5	6.9	1.4	0.0
70°	7213.4	1800.3	86.4	50.7	32.9	19.2	11.0	8.2	4.1	0.0	0.0
72.5°	5540.6	1340.9	68.6	38.4	23.3	11.0	5.5	2.7	4.1	0.0	0.0
75°	3394.8	766.4	53.5	28.8	15.1	6.9	4.1	0.0	4.1	1.4	0.0
77.5°	1506.8	344.1	35.6	19.2	11.0	5.5	2.7	0.0	2.7	1.4	0.0
80°	381.2	112.4	20.6	13.7	8.2	4.1	1.4	0.0	2.7	2.7	1.4
82.5°	104.2	41.1	15.1	11.0	6.9	4.1	1.4	0.0	2.7	2.7	2.7
85°	41.1	19.2	13.7	11.0	8.2	4.1	1.4	0.0	2.7	2.7	2.7
87.5°	19.2	13.7	13.7	12.3	9.6	4.1	1.4	0.0	2.7	1.4	2.7
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)