

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: P453455

Luminaire Tested: **GALN-SA4C-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453455
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-SA4C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 17388 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

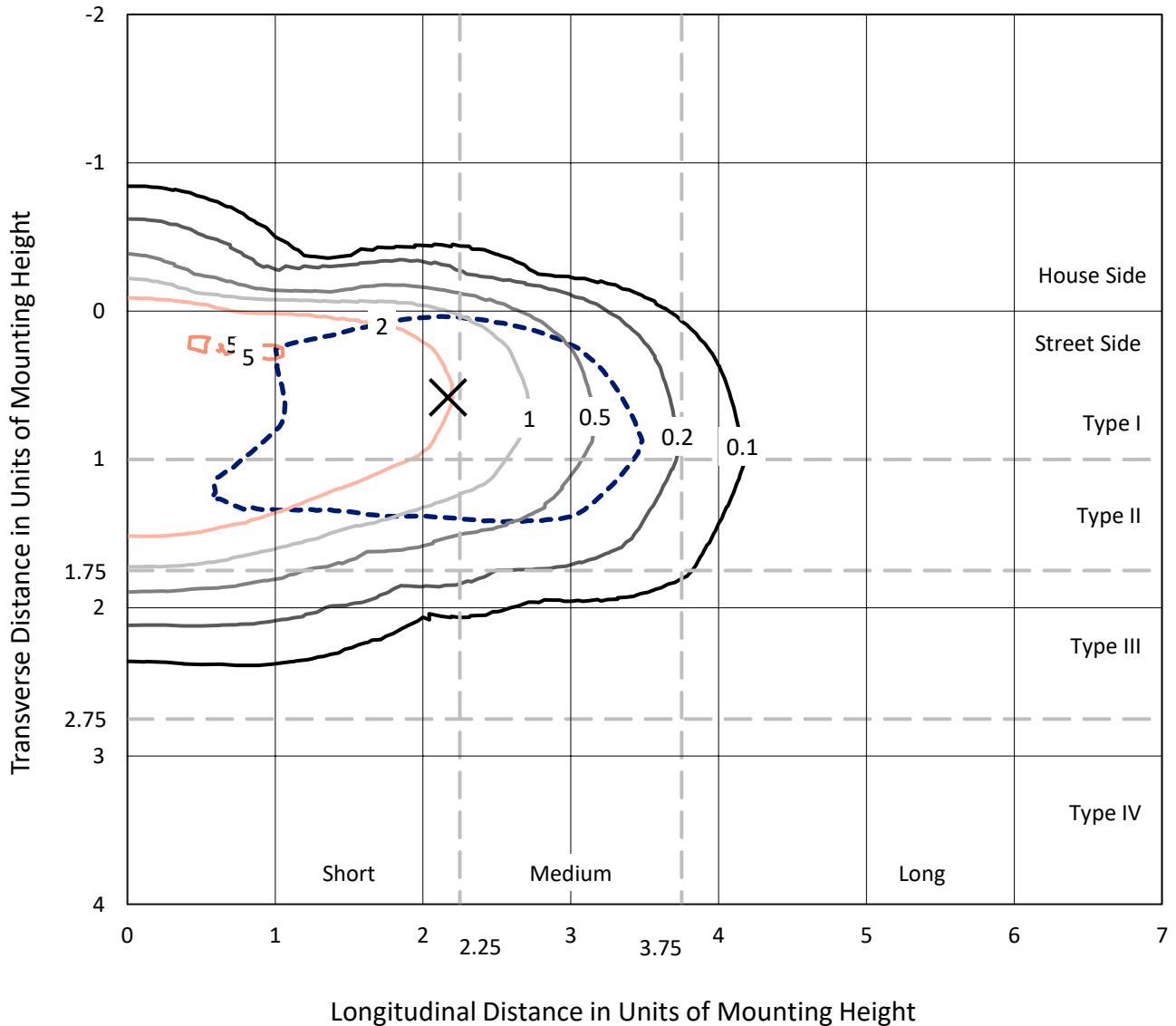
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

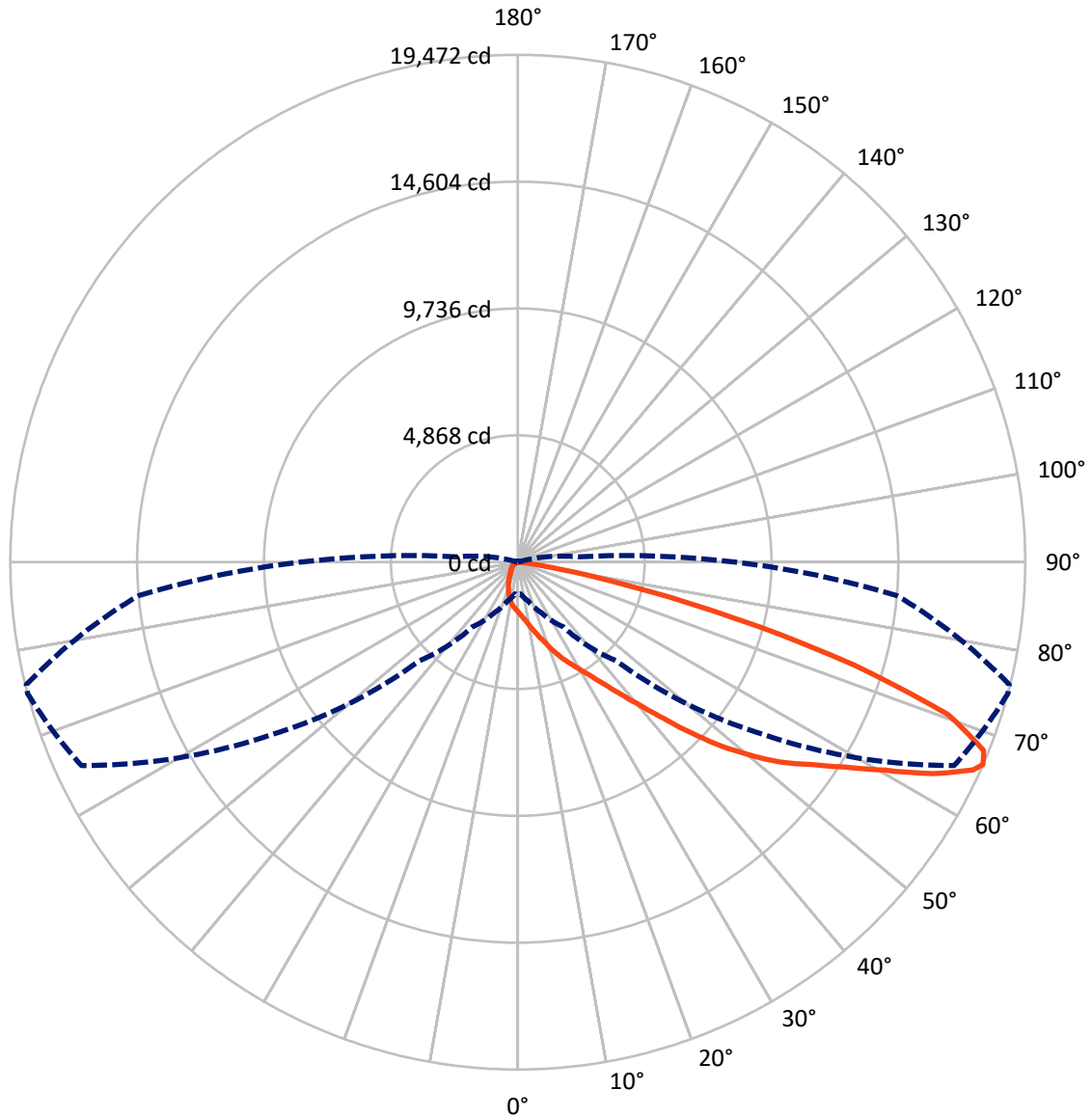
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1073.5	0.0	1073.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16314.5	0.0	16314.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	1.1
10°-20°	539.8	3.1
20°-30°	932.1	5.4
30°-40°	1681.3	9.7
40°-50°	3037.3	17.5
50°-60°	4735.1	27.2
60°-70°	4498.2	25.9
70°-80°	1685.8	9.7
80°-90°	95.1	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°	17388.0	100.0
0°-180°	17388.0	100.0

Coefficient of Utilization



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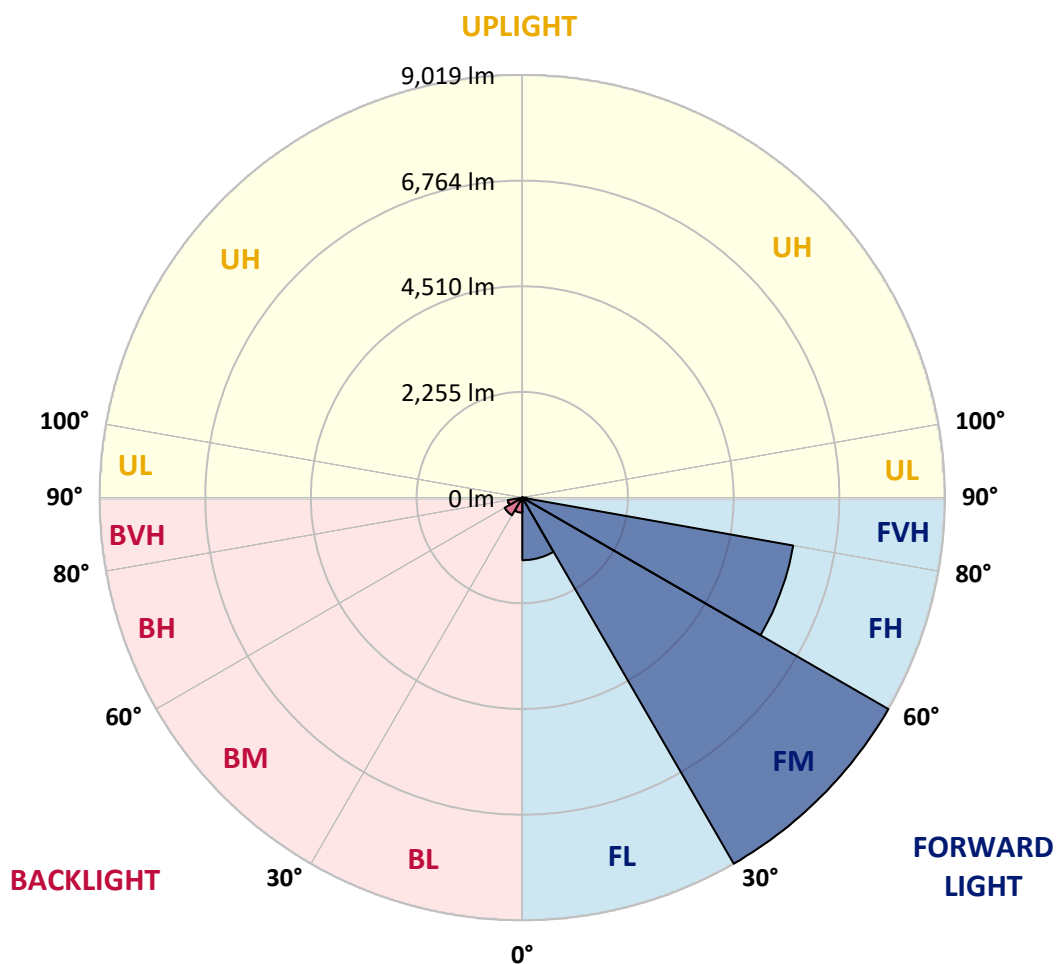
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1334.7	7.7			
FM	(30°-60°)	9019.1	51.9			
FH	(60°-80°)	5870.5	33.8			G3/7500
FVH	(80°-90°)	90.2	0.5			G1/100
BL	(0°-30°)	320.6	1.8	B1/500		
BM	(30°-60°)	434.5	2.5	B1/1000		
BH	(60°-80°)	313.5	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°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	2271.8	2243.5	2252.5	2239.7	2210.1	2166.4	2127.8	2072.5	2017.3	2008.3	1946.5
5°	2571.4	2563.7	2553.4	2516.1	2495.5	2428.7	2349.0	2253.8	2139.4	2118.8	2007.0
7.5°	2775.8	2772.0	2777.1	2757.8	2739.8	2679.4	2594.5	2464.7	2287.3	2275.7	2089.3
10°	2842.7	2853.0	2872.3	2903.1	2931.4	2912.1	2847.8	2685.8	2478.8	2445.4	2183.1
12.5°	2804.1	2815.7	2862.0	2944.3	3035.5	3088.3	3062.5	2944.3	2682.0	2655.0	2288.5
15°	2705.1	2719.3	2784.8	2912.1	3075.4	3224.5	3288.8	3204.0	2918.5	2874.8	2415.8
17.5°	2558.5	2579.1	2673.0	2841.4	3065.1	3322.2	3503.5	3475.2	3170.5	3129.4	2554.7
20°	2448.0	2463.4	2543.1	2736.0	3021.4	3376.2	3708.0	3787.7	3481.7	3411.0	2718.0
22.5°	2521.3	2526.4	2553.4	2669.1	2943.0	3390.4	3888.0	4113.0	3812.1	3749.1	2887.7
25°	2880.0	2828.5	2801.5	2775.8	2926.3	3377.5	4051.2	4452.4	4141.2	4074.4	3056.1
27.5°	3445.7	3422.5	3286.2	3103.7	3069.0	3394.2	4159.2	4773.8	4451.1	4379.1	3220.7
30°	4061.5	4021.7	3938.1	3670.7	3402.0	3512.5	4237.7	5086.2	4817.5	4722.4	3371.1
32.5°	4627.2	4652.9	4528.2	4253.1	3942.0	3764.5	4339.2	5426.9	5237.9	5119.7	3546.0
35°	5286.8	5338.2	5146.7	4883.1	4519.2	4219.7	4537.2	5811.4	5771.5	5622.4	3816.0
37.5°	5956.6	5987.5	5870.5	5500.2	5172.4	4798.2	4910.1	6285.8	6428.5	6301.2	4138.7
40°	6519.8	6562.2	6476.1	6146.9	5797.2	5468.1	5451.4	6802.6	7210.2	7079.1	4619.5
42.5°	6950.5	6982.6	6985.2	6752.5	6437.5	6288.4	6141.8	7462.2	8189.9	8038.2	5177.5
45°	7494.3	7540.6	7513.6	7355.5	7120.2	7093.2	7017.3	8259.3	9362.5	9170.9	5901.4
47.5°	8335.2	8366.0	8299.2	8112.8	7873.6	7916.1	7871.1	9152.9	10558.2	10393.6	6650.9
50°	8918.9	8970.3	9065.5	9140.0	8966.5	8809.6	8675.9	9987.3	11693.4	11545.6	7417.2
52.5°	8912.5	8997.3	9298.2	9673.6	10052.9	10005.3	9620.9	10909.2	12777.3	12594.7	8137.2
55°	8312.0	8476.6	8918.9	9584.9	10635.3	11158.6	10983.7	11976.3	13713.3	13589.8	8971.6
57.5°	7072.6	7172.9	7787.5	8718.3	10310.0	11701.2	12562.6	13422.7	14835.7	14777.8	10267.6
60°	4757.1	4802.1	5592.8	6743.5	8777.5	11159.9	13719.7	15172.5	16217.8	16189.5	11780.9
62.5°	2725.7	2745.0	3318.4	4289.1	6245.9	9457.6	13817.4	17331.2	17875.1	17890.5	13532.0
65°	1467.0	1477.3	1940.1	2517.4	3800.5	6740.9	12425.0	18514.1	19214.8	19244.4	14617.1
66°	1266.4	1217.6	1544.1	2145.8	3024.0	5365.2	11544.3	18471.6	19471.9	19439.8	14578.5
67.5°	963.0	1006.7	1233.0	1649.6	2241.0	3814.7	9530.9	17650.1	19276.5	19176.2	13985.8
70°	689.1	707.1	878.1	1176.4	1526.1	2093.1	6090.4	14659.5	17520.2	17385.2	12184.6
72.5°	444.9	464.1	622.3	851.1	1103.1	1143.0	3409.7	10591.6	13507.6	13488.3	9176.0
75°	317.6	335.6	411.4	609.4	829.3	707.1	1641.8	7138.2	8587.2	8529.3	5676.4
77.5°	230.1	239.1	275.1	398.6	592.7	506.6	761.1	3812.1	4275.0	4476.8	2508.4
80°	132.4	140.1	191.6	243.0	401.1	345.9	363.9	1530.0	1577.6	1501.7	784.3
82.5°	65.6	74.6	114.4	165.9	250.7	232.7	167.1	460.3	486.0	473.1	198.0
85°	15.4	19.3	64.3	109.3	122.1	104.1	81.0	135.0	167.1	163.3	75.9
87.5°	1.3	2.6	23.1	19.3	20.6	34.7	28.3	34.7	54.0	50.1	27.0
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°	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	1918.3	1893.8	1823.1	1753.7	1695.8	1635.4	1580.1	1548.0	1535.1	1521.0	1527.4
5°	1945.3	1886.1	1743.4	1620.0	1499.1	1396.3	1314.0	1261.3	1235.6	1231.7	1225.3
7.5°	1981.3	1879.7	1658.6	1465.7	1307.6	1193.1	1099.3	1023.4	1000.3	979.7	963.0
10°	2025.0	1868.1	1553.1	1303.7	1135.3	991.3	867.8	777.8	731.6	718.7	727.7
12.5°	2071.3	1846.3	1442.6	1154.6	960.4	776.6	662.1	617.1	604.3	599.1	600.4
15°	2117.5	1819.3	1326.8	1010.6	765.0	619.7	567.0	555.4	550.3	547.7	545.1
17.5°	2160.0	1775.6	1197.0	870.4	619.7	529.7	510.4	500.1	489.9	486.0	479.6
20°	2210.1	1725.4	1080.0	713.6	524.6	479.6	456.4	437.1	421.7	411.4	410.1
22.5°	2257.7	1661.1	957.8	591.4	478.3	430.7	393.4	372.9	354.9	342.0	345.9
25°	2283.4	1582.7	848.6	515.6	435.9	381.9	340.7	315.0	295.7	289.3	288.0
27.5°	2283.4	1486.3	741.8	471.9	397.3	338.1	295.7	271.3	258.4	249.4	250.7
30°	2265.4	1379.6	642.8	438.4	363.9	299.6	259.7	237.9	227.6	221.1	219.9
32.5°	2251.3	1278.0	558.0	406.3	329.1	266.1	231.4	214.7	204.4	198.0	198.0
35°	2273.1	1190.6	492.4	374.1	297.0	240.4	209.6	194.1	183.9	178.7	177.4
37.5°	2331.0	1110.8	442.3	339.4	267.4	218.6	194.1	176.1	165.9	159.4	156.9
40°	2473.7	1065.8	405.0	307.3	239.1	200.6	176.1	159.4	146.6	140.1	138.9
42.5°	2702.5	1067.1	369.0	277.7	217.3	185.1	160.7	141.4	127.3	120.9	119.6
45°	3047.1	1116.0	340.7	249.4	198.0	168.4	144.0	123.4	110.6	104.1	104.1
47.5°	3459.8	1211.1	316.3	225.0	180.0	153.0	127.3	106.7	93.9	88.7	88.7
50°	3907.2	1334.6	291.9	199.3	164.6	136.3	109.3	92.6	82.3	78.4	78.4
52.5°	4363.7	1483.7	267.4	178.7	147.9	118.3	93.9	82.3	73.3	70.7	69.4
55°	4962.8	1674.0	241.7	156.9	129.9	101.6	83.6	72.0	61.7	57.9	56.6
57.5°	5884.6	1960.7	213.4	137.6	106.7	84.9	72.0	60.4	48.9	42.4	41.1
60°	6996.8	2310.4	183.9	120.9	86.1	69.4	57.9	46.3	36.0	28.3	27.0
62.5°	8038.2	2532.8	155.6	101.6	68.1	52.7	41.1	34.7	25.7	18.0	16.7
65°	8498.5	2458.3	128.6	82.3	54.0	37.3	27.0	24.4	15.4	7.7	6.4
66°	8345.5	2347.7	118.3	74.6	48.9	32.1	23.1	20.6	11.6	3.9	3.9
67.5°	7894.2	2086.7	102.9	64.3	42.4	25.7	18.0	15.4	6.4	1.3	0.0
70°	6764.1	1688.1	81.0	47.6	30.9	18.0	10.3	7.7	3.9	0.0	0.0
72.5°	5195.5	1257.4	64.3	36.0	21.9	10.3	5.1	2.6	3.9	0.0	0.0
75°	3183.4	718.7	50.1	27.0	14.1	6.4	3.9	0.0	3.9	1.3	0.0
77.5°	1413.0	322.7	33.4	18.0	10.3	5.1	2.6	0.0	2.6	1.3	0.0
80°	357.4	105.4	19.3	12.9	7.7	3.9	1.3	0.0	2.6	2.6	1.3
82.5°	97.7	38.6	14.1	10.3	6.4	3.9	1.3	0.0	2.6	2.6	2.6
85°	38.6	18.0	12.9	10.3	7.7	3.9	1.3	0.0	2.6	2.6	2.6
87.5°	18.0	12.9	12.9	11.6	9.0	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)