

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: P454876

Luminaire Tested: **GALN-SA6A-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454876
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-SA6A-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 18462 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

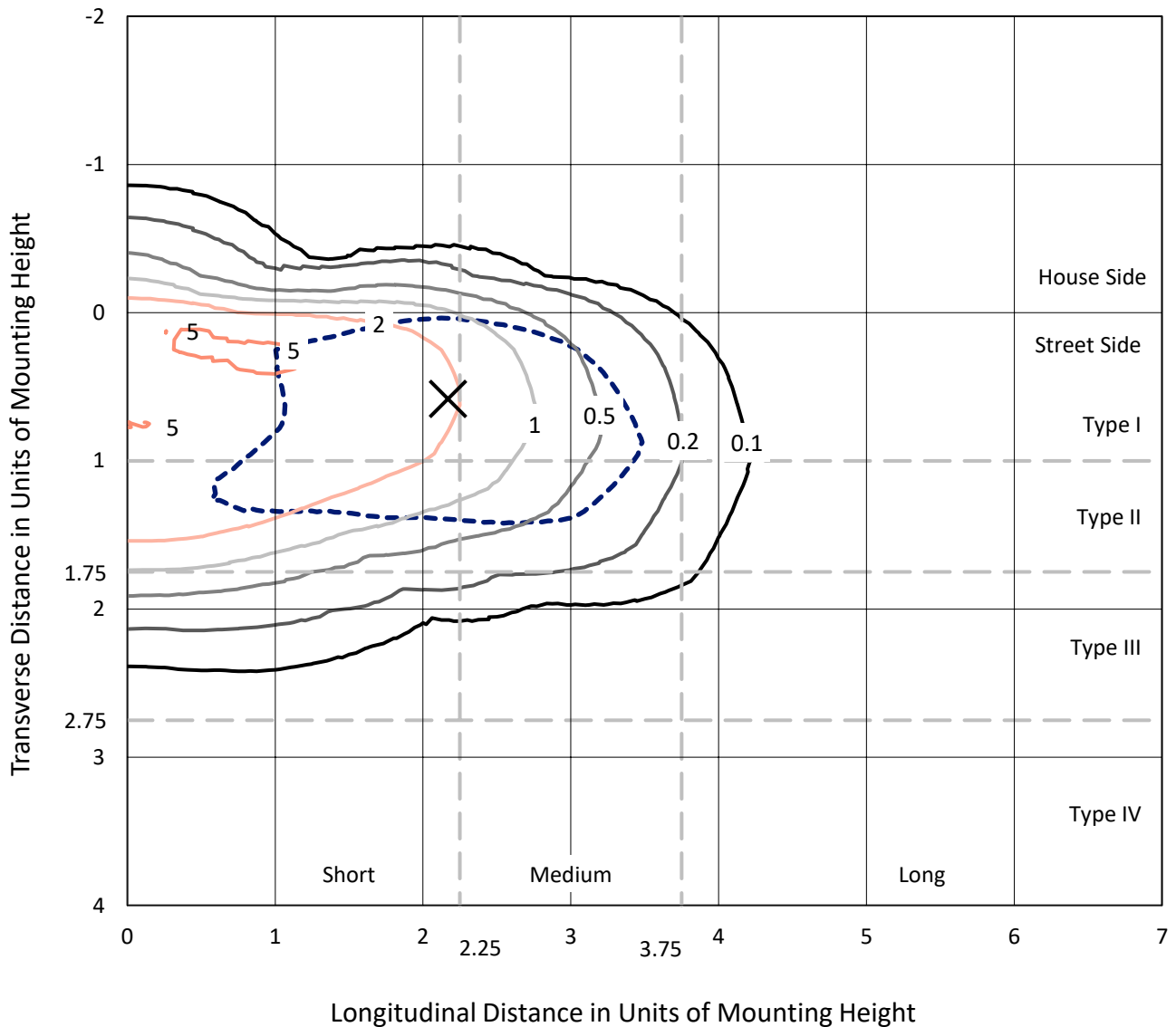
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

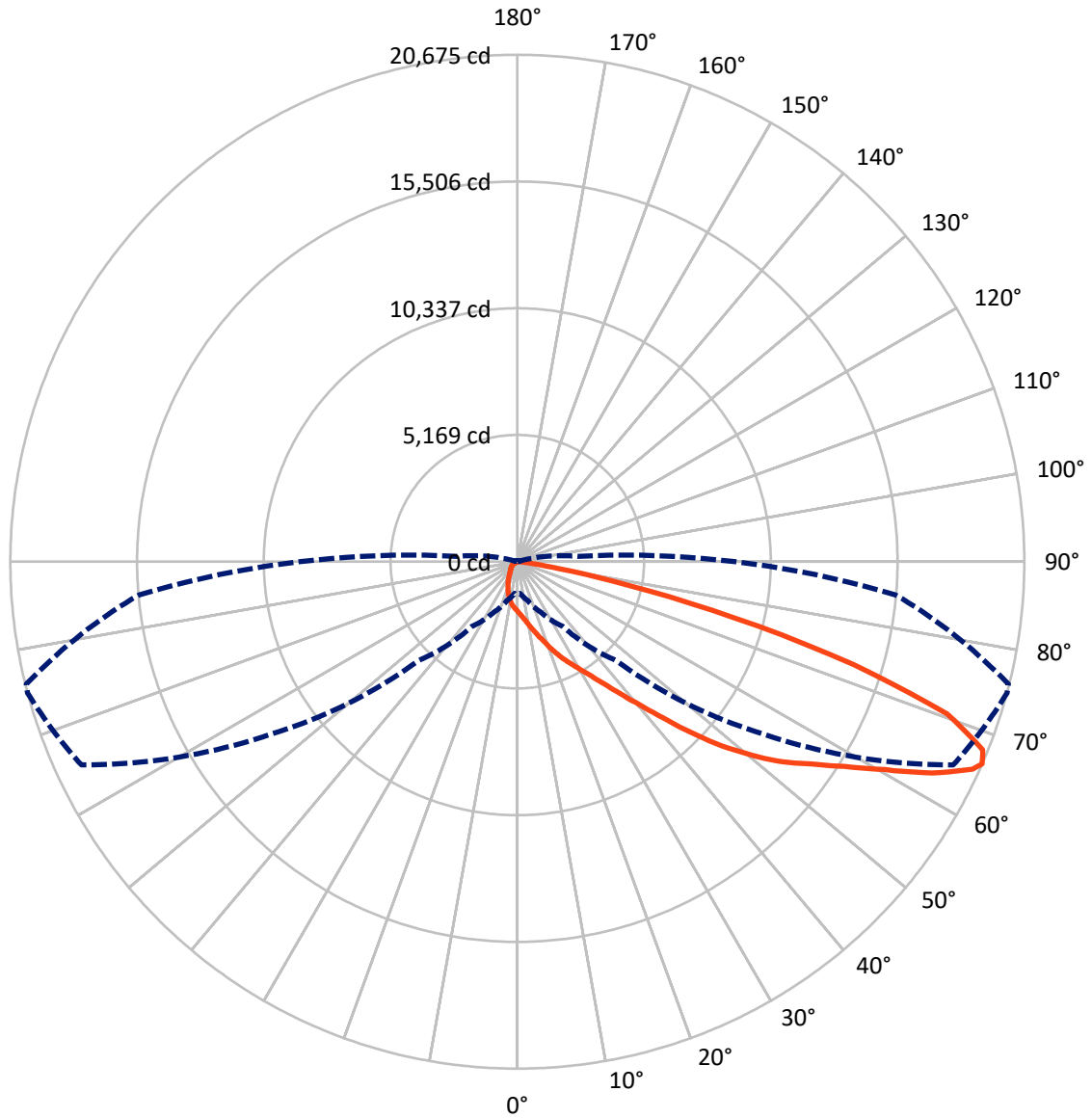
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1139.8	0.0	1139.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17322.2	0.0	17322.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	18462.0	0.0	18462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.1
10°-20°	573.1	3.1
20°-30°	989.6	5.4
30°-40°	1785.1	9.7
40°-50°	3224.9	17.5
50°-60°	5027.6	27.2
60°-70°	4776.0	25.9
70°-80°	1789.9	9.7
80°-90°	101.0	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°	18462.0	100.0
0°-180°	18462.0	100.0

Coefficient of Utilization



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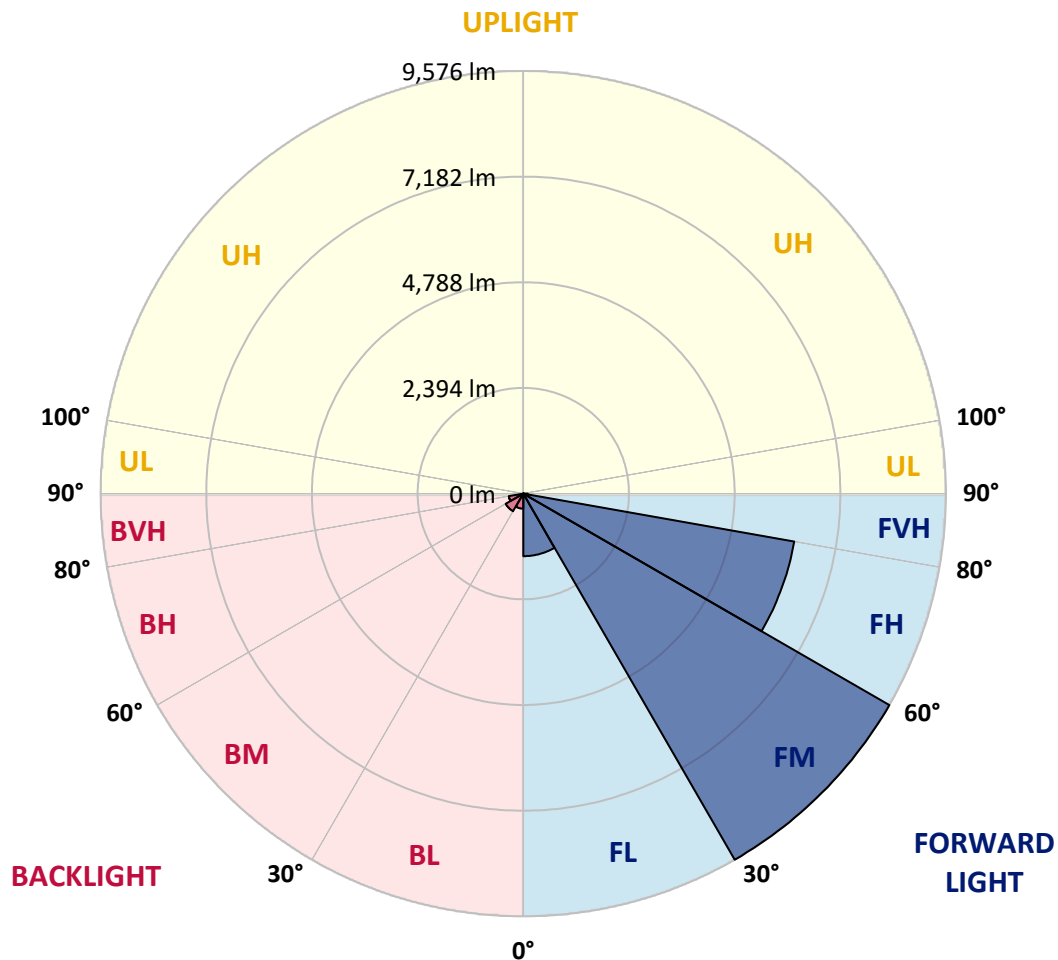
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.1	7.7			
FM (30°-60°)	9576.2	51.9			
FH (60°-80°)	6233.1	33.8			G3/7500
FVH (80°-90°)	95.8	0.5			G1/100
BL (0°-30°)	340.4	1.8	B1/500		
BM (30°-60°)	461.3	2.5	B1/1000		
BH (60°-80°)	332.8	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°	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0
2.5°	2412.2	2382.1	2391.7	2378.0	2346.6	2300.2	2259.3	2200.6	2141.9	2132.3	2066.8
5°	2730.2	2722.0	2711.1	2671.5	2649.7	2578.7	2494.1	2393.0	2271.5	2249.7	2130.9
7.5°	2947.3	2943.2	2948.6	2928.2	2909.1	2844.9	2754.8	2616.9	2428.5	2416.3	2218.3
10°	3018.3	3029.2	3049.7	3082.4	3112.5	3092.0	3023.7	2851.7	2631.9	2596.4	2318.0
12.5°	2977.3	2989.6	3038.7	3126.1	3223.0	3279.0	3251.7	3126.1	2847.6	2819.0	2429.9
15°	2872.2	2887.2	2956.8	3092.0	3265.4	3423.7	3492.0	3401.9	3098.8	3052.4	2565.0
17.5°	2716.6	2738.4	2838.1	3016.9	3254.4	3527.5	3719.9	3689.9	3366.4	3322.7	2712.5
20°	2599.2	2615.6	2700.2	2905.0	3208.0	3584.8	3937.0	4021.6	3696.7	3621.6	2885.8
22.5°	2677.0	2682.4	2711.1	2834.0	3124.7	3599.8	4128.1	4367.0	4047.6	3980.7	3066.0
25°	3057.9	3003.2	2974.6	2947.3	3107.0	3586.2	4301.5	4727.4	4397.0	4326.0	3244.9
27.5°	3658.5	3633.9	3489.2	3295.4	3258.5	3603.9	4416.1	5068.7	4726.0	4649.6	3419.6
30°	4312.4	4270.1	4181.3	3897.4	3612.1	3729.5	4499.4	5400.4	5115.1	5014.1	3579.3
32.5°	4913.0	4940.3	4807.9	4515.8	4185.4	3997.1	4607.3	5762.1	5561.5	5435.9	3765.0
35°	5613.3	5667.9	5464.5	5184.7	4798.4	4480.3	4817.5	6170.3	6128.0	5969.6	4051.7
37.5°	6324.6	6357.3	6233.1	5840.0	5491.8	5094.6	5213.4	6674.0	6825.6	6690.4	4394.3
40°	6922.5	6967.5	6876.1	6526.6	6155.3	5805.8	5788.1	7222.8	7655.6	7516.3	4904.9
42.5°	7379.8	7413.9	7416.7	7169.6	6835.1	6676.8	6521.1	7923.1	8695.8	8534.7	5497.3
45°	7957.2	8006.4	7977.7	7809.8	7560.0	7531.3	7450.8	8769.5	9940.8	9737.4	6265.9
47.5°	8850.0	8882.8	8811.8	8613.9	8360.0	8405.0	8357.2	9718.2	11210.3	11035.6	7061.7
50°	9469.8	9524.4	9625.4	9704.6	9520.3	9353.8	9211.8	10604.2	12415.7	12258.7	7875.3
52.5°	9463.0	9553.1	9872.5	10271.1	10673.8	10623.3	10215.1	11583.0	13566.5	13372.6	8639.8
55°	8825.5	9000.2	9469.8	10176.9	11292.2	11847.8	11662.2	12716.0	14560.3	14429.2	9525.8
57.5°	7509.5	7616.0	8268.5	9256.8	10946.8	12423.9	13338.5	14251.8	15752.0	15690.6	10901.8
60°	5050.9	5098.7	5938.2	7160.0	9319.6	11849.2	14567.1	16109.7	17219.5	17189.5	12508.5
62.5°	2894.0	2914.5	3523.4	4554.0	6631.7	10041.8	14670.9	18401.7	18979.2	18995.5	14367.8
65°	1557.6	1568.5	2060.0	2672.9	4035.3	7157.3	13192.5	19657.6	20401.6	20433.0	15520.0
66°	1344.6	1292.8	1639.5	2278.4	3210.7	5696.6	12257.4	19612.6	20674.6	20640.5	15479.0
67.5°	1022.5	1068.9	1309.1	1751.4	2379.4	4050.3	10119.6	18740.3	20467.1	20360.7	14849.7
70°	731.7	750.8	932.4	1249.1	1620.4	2222.4	6466.5	15565.0	18602.4	18459.1	12937.2
72.5°	472.3	492.8	660.7	903.7	1171.3	1213.6	3620.3	11245.8	14341.9	14321.4	9742.8
75°	337.2	356.3	436.8	647.1	880.5	750.8	1743.2	7579.1	9117.6	9056.2	6027.0
77.5°	244.4	253.9	292.1	423.2	629.3	537.9	808.1	4047.6	4539.0	4753.3	2663.3
80°	140.6	148.8	203.4	258.0	425.9	367.2	386.3	1624.5	1675.0	1594.5	832.7
82.5°	69.6	79.2	121.5	176.1	266.2	247.1	177.5	488.7	516.0	502.4	210.2
85°	16.4	20.5	68.3	116.0	129.7	110.6	86.0	143.3	177.5	173.4	80.5
87.5°	1.4	2.7	24.6	20.5	21.8	36.9	30.0	36.9	57.3	53.2	28.7
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°	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0	2019.0
2.5°	2036.7	2010.8	1935.7	1862.0	1800.6	1736.4	1677.7	1643.6	1629.9	1614.9	1621.8
5°	2065.4	2002.6	1851.1	1720.0	1591.7	1482.5	1395.1	1339.2	1311.9	1307.8	1301.0
7.5°	2103.6	1995.8	1761.0	1556.2	1388.3	1266.8	1167.2	1086.6	1062.1	1040.2	1022.5
10°	2150.1	1983.5	1649.1	1384.2	1205.4	1052.5	921.5	825.9	776.7	763.1	772.7
12.5°	2199.2	1960.3	1531.7	1225.9	1019.7	824.5	703.0	655.3	641.6	636.1	637.5
15°	2248.3	1931.6	1408.8	1073.0	812.2	658.0	602.0	589.7	584.3	581.5	578.8
17.5°	2293.4	1885.2	1270.9	924.2	658.0	562.4	541.9	531.0	520.1	516.0	509.2
20°	2346.6	1832.0	1146.7	757.6	557.0	509.2	484.6	464.1	447.8	436.8	435.5
22.5°	2397.1	1763.7	1017.0	628.0	507.8	457.3	417.7	395.9	376.8	363.1	367.2
25°	2424.4	1680.5	901.0	547.4	462.8	405.4	361.8	334.5	314.0	307.2	305.8
27.5°	2424.4	1578.1	787.7	501.0	421.8	359.0	314.0	288.0	274.4	264.8	266.2
30°	2405.3	1464.8	682.6	465.5	386.3	318.1	275.8	252.5	241.6	234.8	233.4
32.5°	2390.3	1356.9	592.5	431.4	349.5	282.6	245.7	228.0	217.1	210.2	210.2
35°	2413.5	1264.1	522.8	397.2	315.3	255.3	222.5	206.1	195.2	189.8	188.4
37.5°	2474.9	1179.5	469.6	360.4	283.9	232.1	206.1	187.0	176.1	169.3	166.5
40°	2626.5	1131.7	430.0	326.3	253.9	213.0	187.0	169.3	155.6	148.8	147.4
42.5°	2869.5	1133.0	391.8	294.9	230.7	196.6	170.6	150.2	135.1	128.3	127.0
45°	3235.3	1184.9	361.8	264.8	210.2	178.8	152.9	131.1	117.4	110.6	110.6
47.5°	3673.5	1285.9	335.8	238.9	191.1	162.4	135.1	113.3	99.7	94.2	94.2
50°	4148.6	1417.0	309.9	211.6	174.7	144.7	116.0	98.3	87.4	83.3	83.3
52.5°	4633.2	1575.3	283.9	189.8	157.0	125.6	99.7	87.4	77.8	75.1	73.7
55°	5269.3	1777.4	256.6	166.5	137.9	107.8	88.7	76.4	65.5	61.4	60.1
57.5°	6248.1	2081.8	226.6	146.1	113.3	90.1	76.4	64.2	51.9	45.0	43.7
60°	7428.9	2453.1	195.2	128.3	91.5	73.7	61.4	49.1	38.2	30.0	28.7
62.5°	8534.7	2689.3	165.2	107.8	72.4	56.0	43.7	36.9	27.3	19.1	17.7
65°	9023.4	2610.1	136.5	87.4	57.3	39.6	28.7	25.9	16.4	8.2	6.8
66°	8860.9	2492.7	125.6	79.2	51.9	34.1	24.6	21.8	12.3	4.1	4.1
67.5°	8381.8	2215.6	109.2	68.3	45.0	27.3	19.1	16.4	6.8	1.4	0.0
70°	7181.9	1792.4	86.0	50.5	32.8	19.1	10.9	8.2	4.1	0.0	0.0
72.5°	5516.4	1335.1	68.3	38.2	23.2	10.9	5.5	2.7	4.1	0.0	0.0
75°	3380.0	763.1	53.2	28.7	15.0	6.8	4.1	0.0	4.1	1.4	0.0
77.5°	1500.3	342.6	35.5	19.1	10.9	5.5	2.7	0.0	2.7	1.4	0.0
80°	379.5	111.9	20.5	13.7	8.2	4.1	1.4	0.0	2.7	2.7	1.4
82.5°	103.7	41.0	15.0	10.9	6.8	4.1	1.4	0.0	2.7	2.7	2.7
85°	41.0	19.1	13.7	10.9	8.2	4.1	1.4	0.0	2.7	2.7	2.7
87.5°	19.1	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)