

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: P191041

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12440.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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: 25 FT

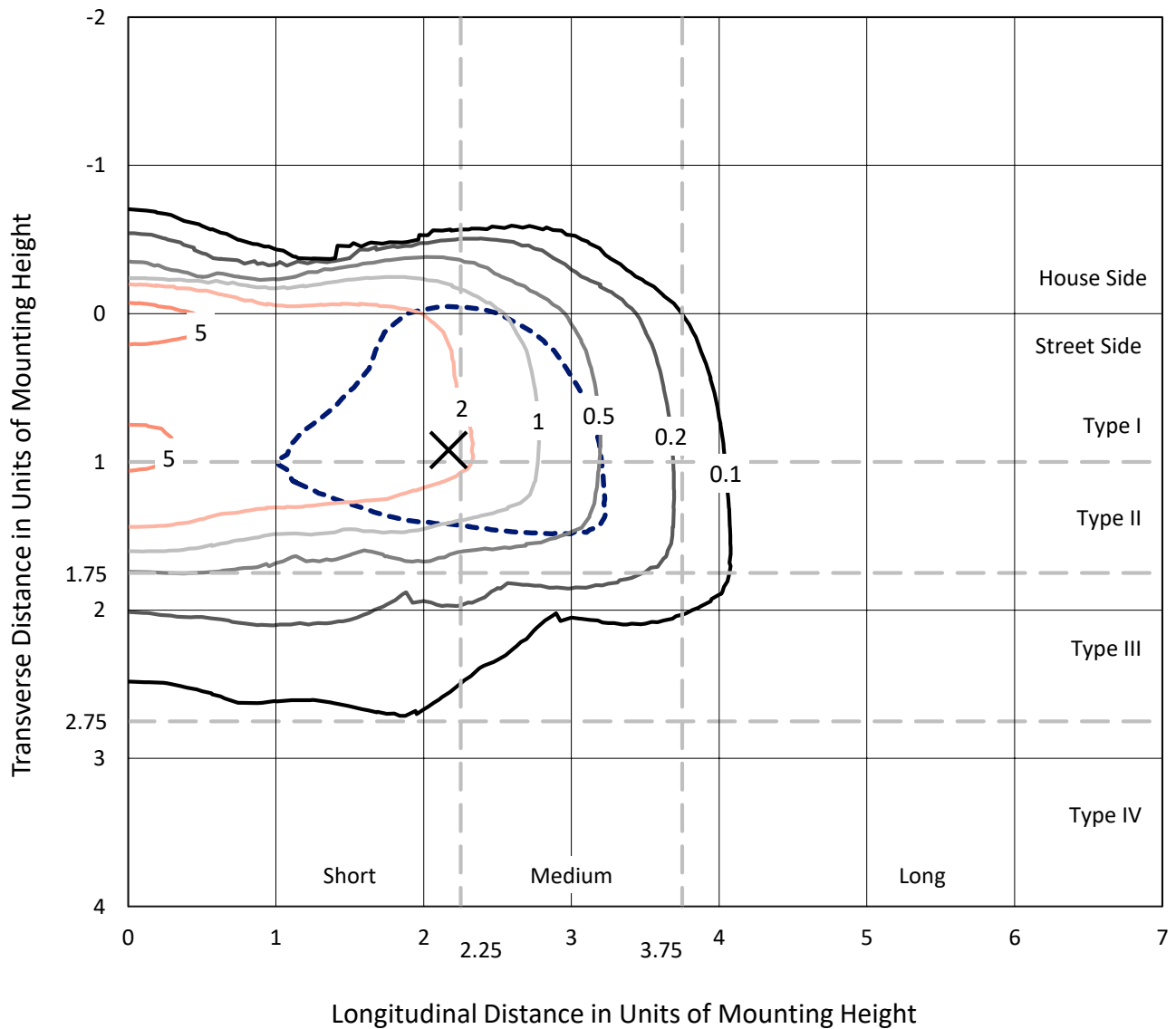


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Iso-Footcandle Lines of Horizontal Illumination

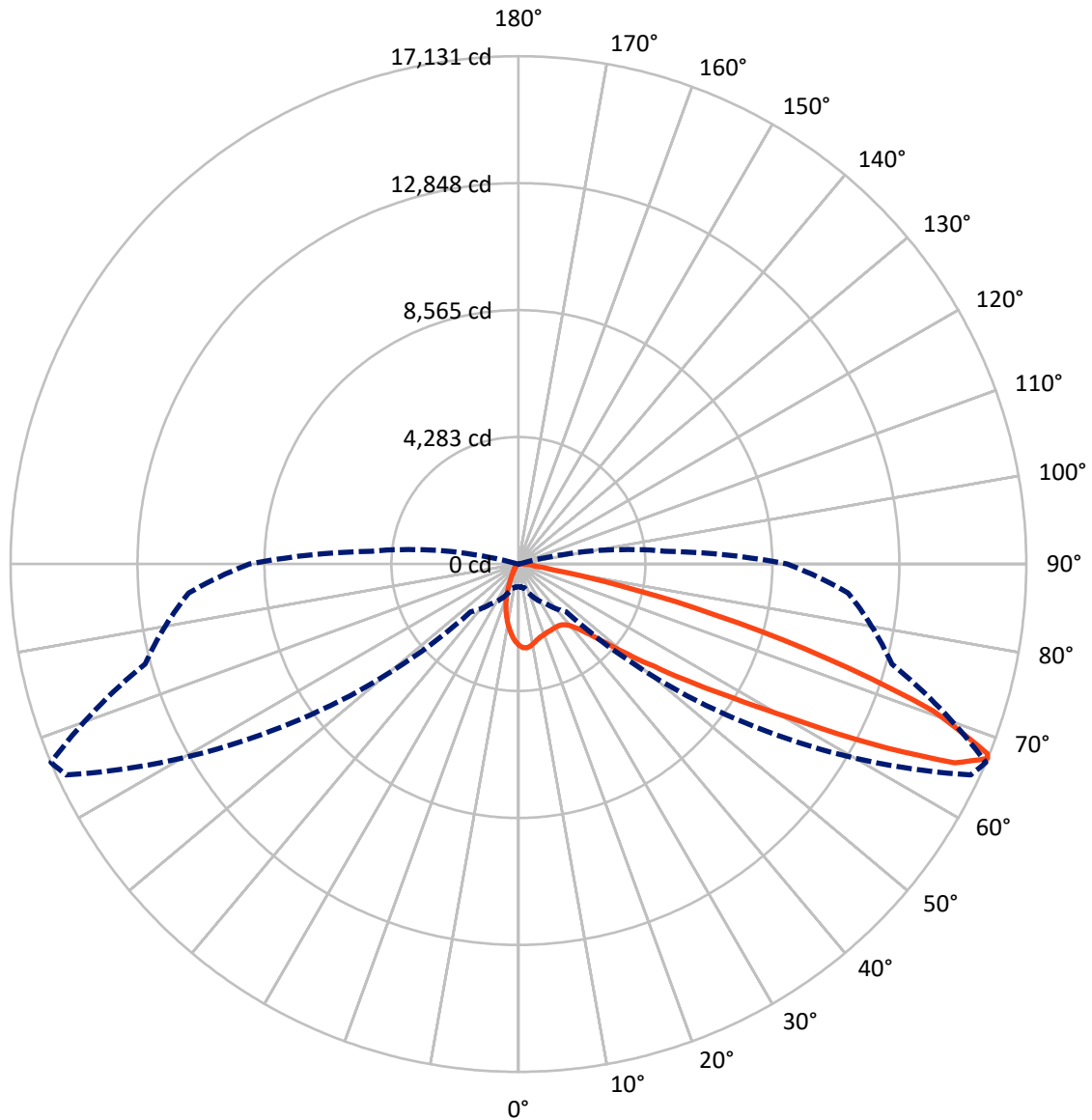
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.7	0.0	1291.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11148.4	0.0	11148.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	12440.1	0.0	12440.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	1.8
10°-20°	475.1	3.8
20°-30°	690.8	5.6
30°-40°	1077.7	8.7
40°-50°	1909.0	15.3
50°-60°	3020.9	24.3
60°-70°	3460.0	27.8
70°-80°	1435.2	11.5
80°-90°	148.2	1.2
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°	12440.1	100.0
0°-180°	12440.1	100.0

Coefficient of Utilization



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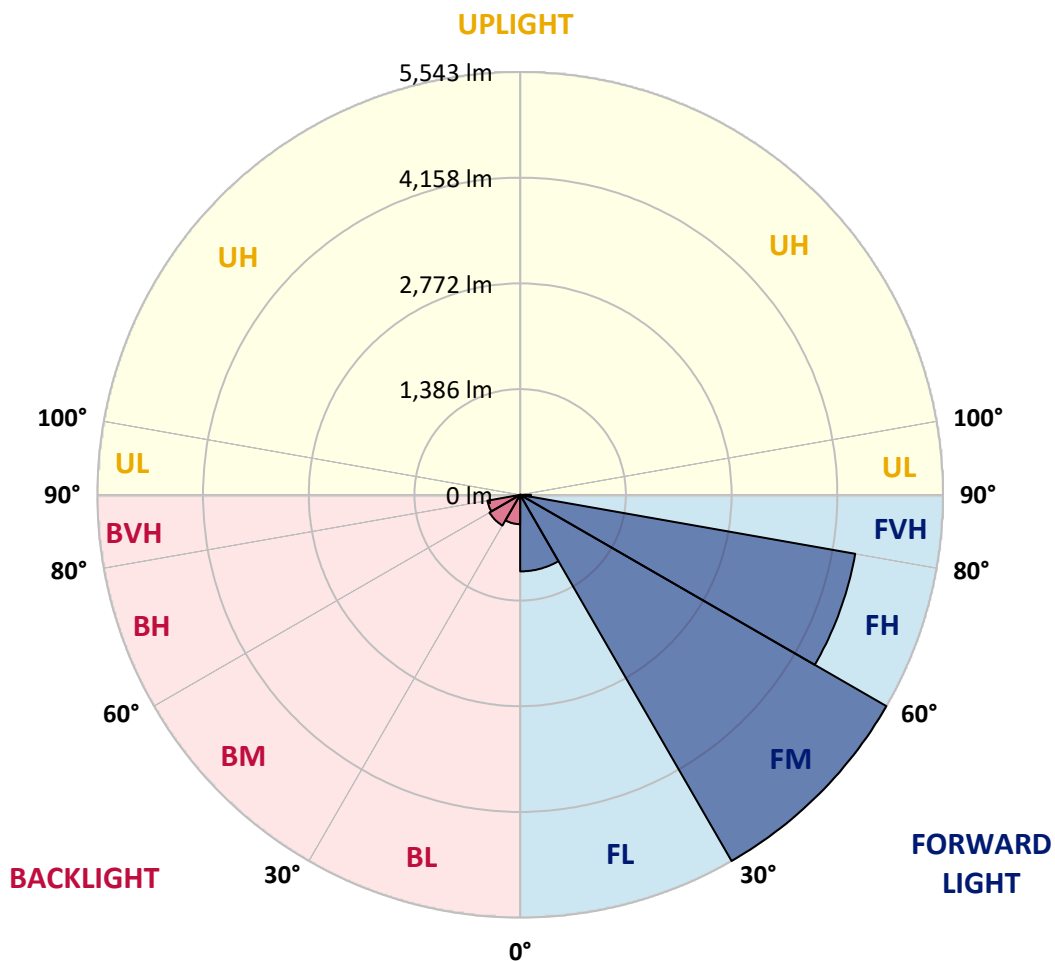
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.7	8.1			
FM (30°-60°)	5543.3	44.6			
FH (60°-80°)	4459.8	35.9			G2/5000
FVH (80°-90°)	141.6	1.1			G2/225
BL (0°-30°)	385.4	3.1	B1/500		
BM (30°-60°)	464.2	3.7	B1/1000		
BH (60°-80°)	435.3	3.5	B1/500		G1/500
BVH (80°-90°)	6.7	0.1			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°	67°	75°	85°
0°	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5
2.5°	2836.3	2842.2	2841.5	2845.8	2856.0	2856.7	2846.6	2826.9	2822.6	2797.2	2753.0
5°	2615.8	2632.5	2642.7	2684.0	2730.5	2786.3	2828.4	2843.6	2841.5	2823.3	2756.5
7.5°	2364.0	2380.7	2392.3	2441.0	2502.6	2598.4	2708.0	2797.9	2806.0	2825.5	2753.7
10°	2196.4	2199.3	2215.3	2261.7	2326.3	2424.2	2554.8	2712.3	2736.3	2808.1	2746.4
12.5°	2058.5	2060.7	2081.7	2131.8	2200.8	2299.4	2436.6	2618.7	2655.7	2786.3	2745.0
15°	1960.6	1968.6	1987.4	2039.7	2112.9	2210.9	2351.7	2549.8	2594.0	2778.3	2758.0
17.5°	1928.0	1936.7	1942.5	1980.1	2046.9	2142.7	2287.1	2504.8	2554.8	2782.7	2783.4
20°	1962.0	1968.6	1955.5	1964.9	2006.3	2091.9	2232.7	2466.3	2525.9	2787.7	2816.1
22.5°	2089.0	2091.9	2056.3	2015.0	2007.7	2054.9	2189.8	2435.9	2499.7	2801.6	2854.5
25°	2306.7	2301.6	2243.5	2154.3	2070.1	2048.4	2164.5	2417.0	2486.6	2816.1	2894.4
27.5°	2569.3	2576.6	2496.8	2366.9	2206.6	2091.9	2160.9	2409.0	2480.9	2826.2	2929.2
30°	2888.6	2898.7	2807.4	2644.1	2414.1	2199.3	2194.2	2407.5	2477.2	2819.7	2932.2
32.5°	3214.4	3226.8	3154.9	2986.6	2691.3	2379.3	2269.7	2423.5	2484.4	2797.2	2915.5
35°	3555.5	3572.9	3525.0	3380.5	3067.1	2639.0	2402.5	2472.2	2518.6	2795.0	2898.7
37.5°	4026.3	4042.3	3952.4	3799.2	3522.1	2987.3	2615.8	2563.5	2599.1	2829.9	2903.1
40°	4729.5	4727.3	4495.2	4260.7	4022.0	3430.0	2915.5	2729.0	2747.1	2935.1	2956.8
42.5°	5495.7	5492.1	5148.9	4792.6	4577.1	3974.9	3309.5	3014.8	3002.6	3128.8	3096.2
45°	6086.4	6085.6	5805.6	5404.2	5245.4	4600.3	3818.9	3412.5	3393.6	3443.7	3353.0
47.5°	6338.1	6342.5	6201.7	5919.5	5986.2	5446.4	4461.0	3988.6	3960.4	3940.0	3802.2
50°	6142.2	6150.9	6162.6	6107.4	6529.7	6583.4	5322.3	4800.6	4786.8	4696.1	4480.6
52.5°	5502.2	5546.5	5682.9	5857.8	6718.3	7674.7	6672.6	5809.1	5735.2	5638.6	5401.4
55°	4424.0	4472.6	4731.7	5156.1	6437.5	8391.6	8565.0	7109.4	6986.1	6698.1	6355.6
57.5°	2927.8	3003.3	3379.1	3919.0	5621.9	8507.0	10453.0	8914.0	8484.5	7695.8	7309.7
60°	1613.0	1685.6	2093.4	2582.4	4060.5	7936.7	11722.8	11263.5	10504.6	8811.0	8468.5
62.5°	993.4	1032.6	1333.6	1788.6	2435.1	6264.1	11985.5	14216.0	13337.3	10247.0	9868.2
65°	790.9	807.6	954.9	1462.1	1745.8	3726.0	11137.3	16466.8	16173.7	11985.5	11121.3
67°	767.7	774.2	843.8	1255.3	1645.6	2284.1	9330.5	16833.3	17130.7	13037.6	11160.5
67.5°	772.7	780.0	846.1	1198.0	1642.8	2099.2	8708.0	16688.8	17064.8	13121.1	10987.1
70°	745.2	767.7	968.6	1197.3	1562.3	1744.3	5214.9	14459.8	14850.9	12191.5	9322.6
72.5°	264.1	265.6	418.7	968.6	1698.6	1763.3	2618.7	10600.3	10889.8	9326.1	6721.3
75°	156.7	133.5	139.3	275.7	1623.2	1712.4	1510.7	6773.5	6881.6	5344.1	3403.8
77.5°	108.1	94.3	97.2	121.9	618.2	1688.5	1200.1	3532.2	3416.9	1874.3	724.9
80°	61.7	54.4	58.0	106.7	224.9	1575.2	1131.9	1432.3	1221.2	317.8	200.3
82.5°	32.6	27.6	33.3	87.8	156.7	981.7	1134.1	692.2	548.5	107.4	136.5
85°	11.6	9.4	16.0	60.3	104.4	301.2	1051.4	582.0	457.2	52.3	103.7
87.5°	2.1	2.1	6.5	24.7	42.0	92.2	621.9	345.3	231.5	31.2	71.1
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°	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5	2743.5
2.5°	2734.8	2703.6	2661.5	2610.0	2549.1	2495.4	2455.4	2414.1	2405.4	2390.8	2388.7
5°	2716.7	2662.9	2558.5	2438.7	2311.1	2195.7	2102.1	2018.6	1981.7	1949.7	1946.1
7.5°	2689.8	2609.2	2431.5	2238.5	2038.9	1857.6	1703.7	1594.9	1494.7	1446.9	1439.6
10°	2658.6	2543.3	2288.5	2020.8	1745.1	1488.9	1260.4	1068.8	952.7	883.8	875.0
12.5°	2629.6	2478.6	2142.7	1795.2	1428.8	1086.3	792.4	609.5	487.6	438.2	432.5
15°	2615.8	2426.4	2006.3	1564.4	1097.8	691.5	433.2	335.2	295.3	283.7	282.9
17.5°	2614.4	2382.1	1872.8	1325.6	769.2	402.0	282.2	257.6	249.6	246.7	246.7
20°	2613.6	2340.1	1739.2	1078.3	488.4	267.7	235.1	229.2	223.5	219.8	219.8
22.5°	2621.6	2302.4	1600.0	825.7	307.7	217.0	206.8	201.0	193.7	188.6	187.9
25°	2629.6	2273.3	1457.7	587.8	222.8	188.6	178.5	170.5	160.4	153.9	153.1
27.5°	2631.0	2237.0	1305.4	393.3	186.5	164.7	151.6	139.3	127.7	121.2	120.4
30°	2609.2	2176.1	1136.3	265.6	164.7	142.9	125.5	112.4	101.6	96.5	96.5
32.5°	2566.5	2100.6	950.5	200.3	146.6	122.7	103.7	91.5	84.2	82.0	81.2
35°	2528.0	2019.3	759.7	169.8	131.3	103.7	84.9	76.9	72.5	71.8	71.1
37.5°	2505.5	1954.0	580.5	153.9	116.8	87.1	71.8	66.0	63.8	62.4	63.1
40°	2522.9	1899.6	428.8	140.8	102.3	72.5	61.0	58.0	55.9	55.1	55.1
42.5°	2599.1	1890.2	318.5	129.2	88.5	60.3	53.0	50.8	49.3	48.6	49.3
45°	2799.4	1948.2	247.5	118.3	74.8	50.8	45.0	44.3	43.6	43.6	43.6
47.5°	3100.5	2068.0	206.0	106.0	62.4	43.6	39.2	38.5	37.7	38.5	38.5
50°	3610.6	2287.1	184.3	93.6	51.6	37.0	33.3	33.3	33.3	33.3	34.1
52.5°	4386.3	2718.1	169.8	81.2	42.0	31.2	28.3	28.3	29.1	29.1	29.8
55°	5250.5	3289.9	156.7	68.9	35.6	26.1	23.2	23.9	24.7	25.4	25.4
57.5°	6187.9	3923.3	145.9	56.6	30.5	21.1	19.6	20.4	21.1	22.5	22.5
60°	7319.1	4609.0	129.9	44.3	25.4	16.7	15.2	16.7	18.8	20.4	21.1
62.5°	8561.4	5272.2	109.6	34.8	21.1	13.1	12.4	15.2	18.1	19.6	20.4
65°	9410.3	5480.5	84.2	28.3	16.0	9.4	10.1	13.8	17.4	19.6	19.6
67°	9066.4	4968.9	68.9	23.9	13.1	7.3	9.4	13.8	17.4	18.8	19.6
67.5°	8827.7	4768.7	66.0	23.2	12.4	7.3	9.4	13.8	17.4	19.6	19.6
70°	7182.8	3582.3	55.1	17.4	10.1	6.5	8.0	13.1	16.7	18.8	18.8
72.5°	4990.7	2208.8	49.3	12.4	8.7	5.8	7.3	12.4	16.0	18.1	18.8
75°	2372.7	799.6	42.0	9.4	8.0	5.1	6.5	12.4	16.0	18.1	18.1
77.5°	484.0	185.8	34.1	8.0	6.5	5.1	5.8	11.6	15.2	17.4	17.4
80°	158.9	71.8	25.4	7.3	6.5	5.1	5.8	10.8	15.2	16.7	17.4
82.5°	114.7	36.3	16.7	7.3	6.5	5.1	5.1	10.8	14.5	16.7	16.7
85°	87.8	25.4	10.8	7.3	6.5	5.1	5.1	10.1	13.8	16.0	16.0
87.5°	58.0	10.1	8.7	7.3	6.5	5.1	5.1	10.1	13.1	15.2	16.0
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)