

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: P192861

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12132.2 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

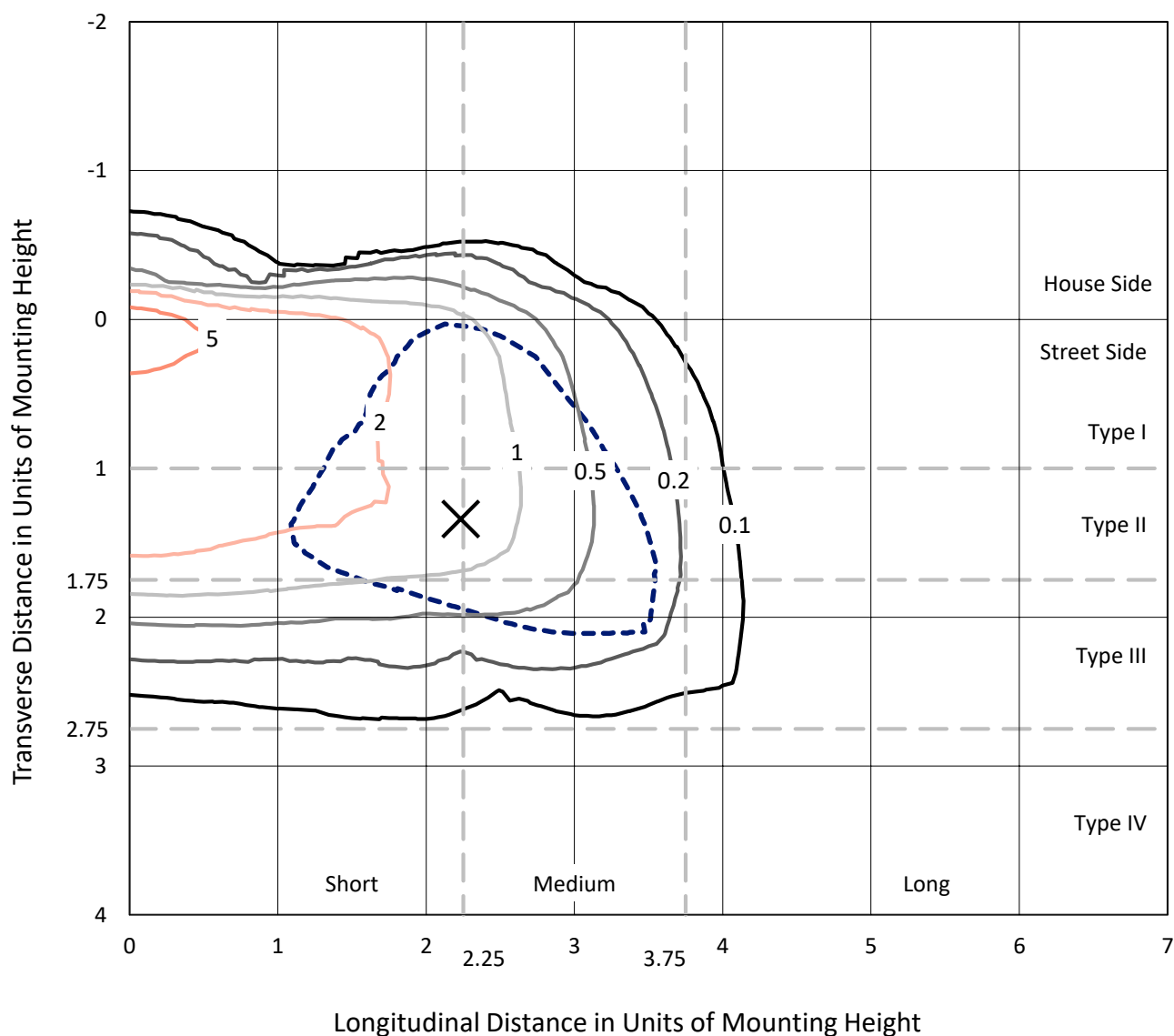


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

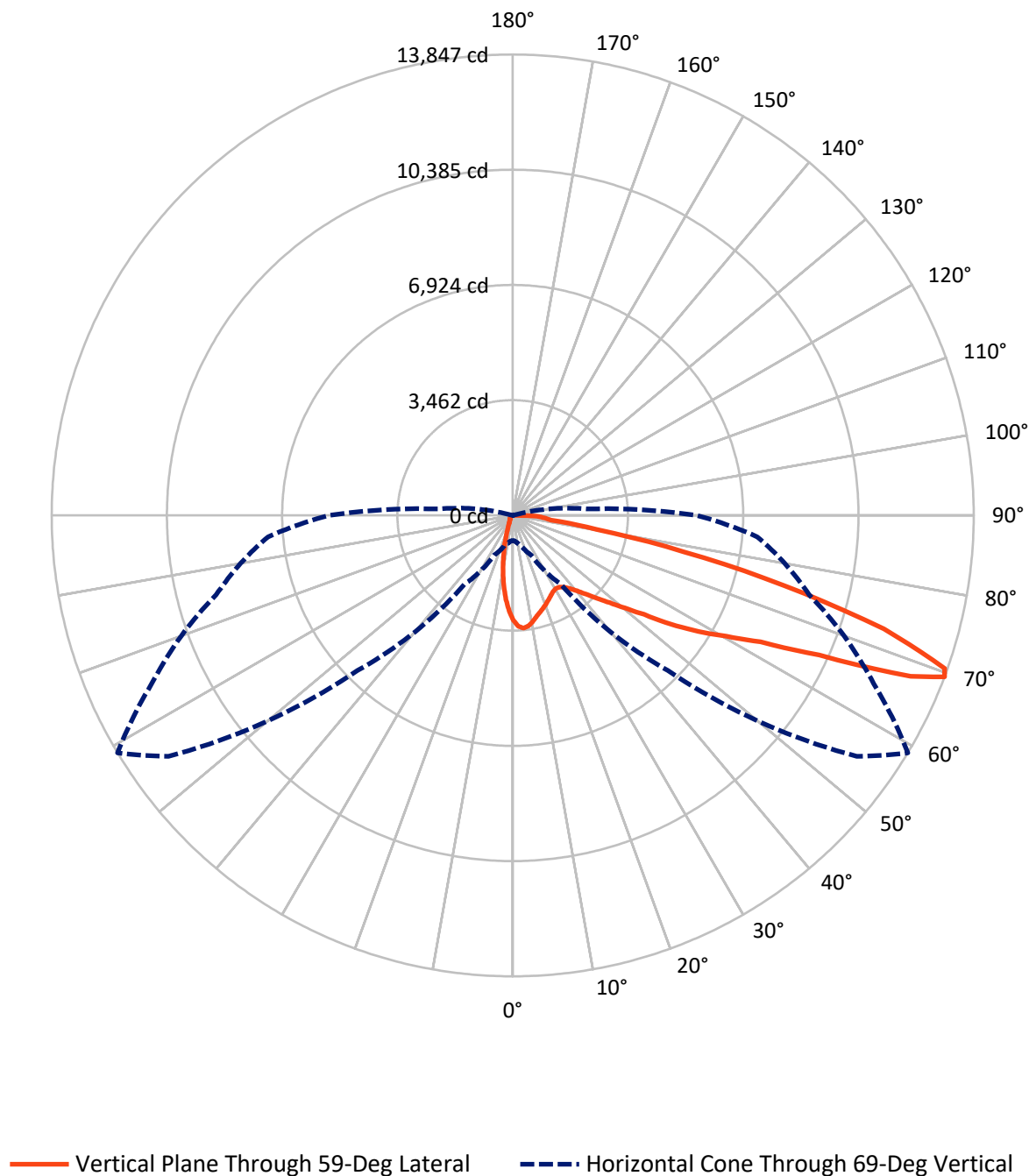


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.0	0.0	988.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	11144.1	0.0	11144.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	12132.2	0.0	12132.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	2.1
10°-20°	529.6	4.4
20°-30°	712.7	5.9
30°-40°	1034.8	8.5
40°-50°	1723.0	14.2
50°-60°	2687.8	22.2
60°-70°	3326.0	27.4
70°-80°	1685.6	13.9
80°-90°	176.4	1.5
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°	12132.2	100.0
0°-180°	12132.2	100.0

Coefficient of Utilization



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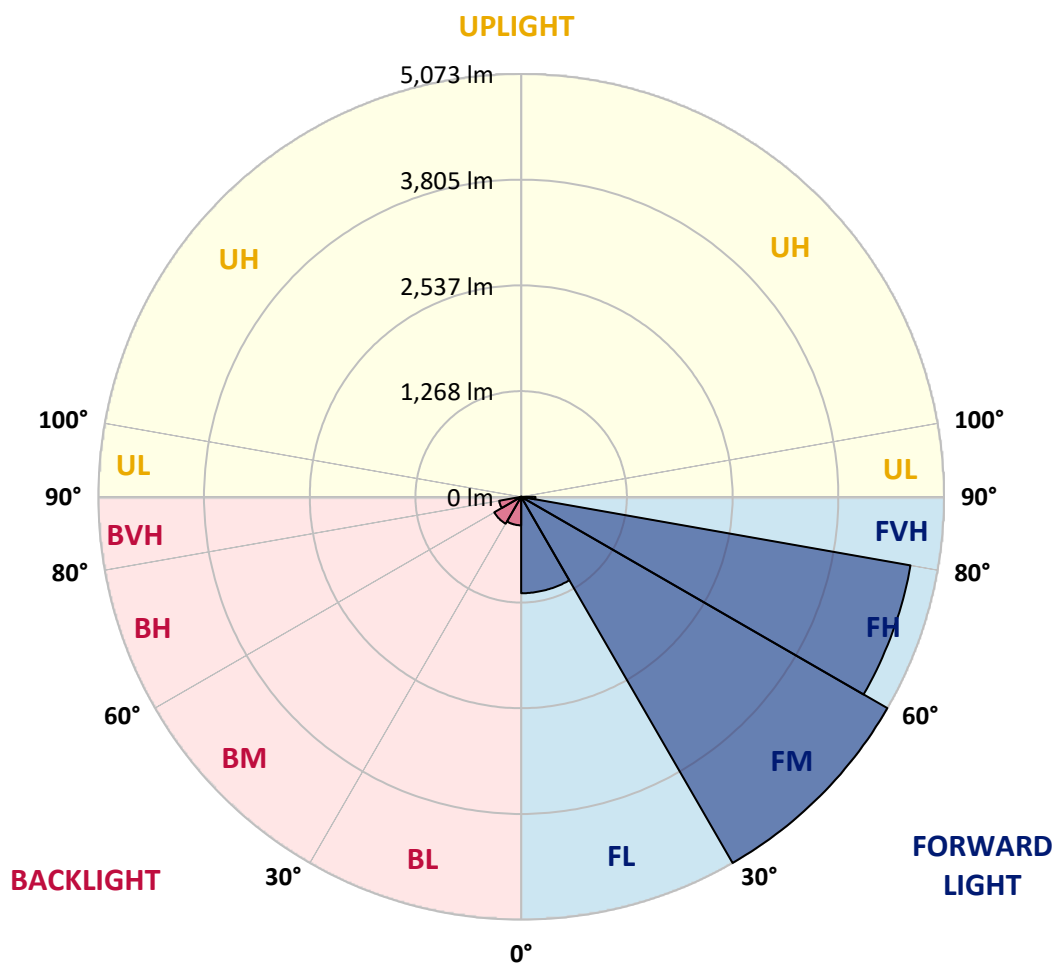
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1156.7	9.5			
FM	(30°-60°)	5073.3	41.8			
FH	(60°-80°)	4743.2	39.1			G2/5000
FVH	(80°-90°)	170.9	1.4			G2/225
BL	(0°-30°)	342.0	2.8	B1/500		
BM	(30°-60°)	372.3	3.1	B1/1000		
BH	(60°-80°)	268.3	2.2	B1/500		G1/500
BVH	(80°-90°)	5.4	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
2.5°	3461.0	3459.7	3444.6	3437.8	3425.4	3399.3	3358.8	3337.6	3303.2	3243.6	3163.3
5°	3429.5	3445.9	3454.9	3455.6	3464.5	3454.9	3418.5	3400.7	3353.3	3257.3	3113.3
7.5°	3215.5	3221.6	3246.9	3268.9	3311.5	3352.0	3364.9	3357.4	3329.3	3226.4	3035.0
10°	2986.3	2992.5	3022.6	3051.5	3109.1	3171.6	3237.5	3251.1	3262.8	3182.5	2959.7
12.5°	2788.8	2795.0	2825.8	2863.4	2930.8	3007.6	3109.8	3132.5	3184.0	3140.6	2899.2
15°	2618.6	2621.3	2651.5	2698.1	2778.5	2877.3	2993.1	3029.5	3108.4	3111.1	2846.4
17.5°	2473.8	2480.7	2499.2	2543.8	2631.6	2753.8	2889.0	2941.0	3033.7	3086.5	2795.0
20°	2385.3	2392.2	2391.5	2416.3	2495.2	2625.5	2784.6	2847.1	2959.7	3061.1	2749.0
22.5°	2368.2	2368.2	2350.3	2346.9	2393.6	2502.7	2676.2	2752.3	2892.9	3050.1	2716.7
25°	2429.3	2426.5	2382.0	2345.6	2347.7	2412.8	2571.3	2661.8	2836.8	3057.6	2699.6
27.5°	2558.2	2554.8	2498.5	2429.3	2373.6	2373.0	2491.6	2589.1	2792.1	3093.3	2706.5
30°	2736.6	2735.2	2674.1	2587.0	2486.2	2393.6	2464.3	2552.8	2763.3	3157.8	2722.2
32.5°	2931.4	2929.3	2883.5	2791.5	2663.8	2486.2	2493.1	2567.1	2771.6	3243.6	2760.7
35°	3137.9	3134.5	3114.7	3034.3	2893.7	2657.0	2587.7	2645.3	2823.7	3371.8	2836.1
37.5°	3361.6	3364.9	3379.4	3302.6	3155.1	2896.5	2746.2	2785.3	2928.7	3546.1	2958.8
40°	3691.6	3690.9	3695.7	3594.8	3452.8	3189.4	2967.8	2980.1	3104.3	3777.3	3145.5
42.5°	4290.5	4248.6	4121.7	3915.9	3773.2	3524.1	3246.9	3234.0	3319.1	4063.4	3406.8
45°	5095.2	5006.0	4676.8	4282.2	4099.7	3901.5	3590.7	3548.8	3603.1	4407.1	3729.3
47.5°	5787.5	5694.8	5228.9	4663.7	4446.2	4259.6	3993.4	3917.9	3935.8	4792.0	4138.2
50°	6022.7	5977.5	5570.6	4995.8	4781.7	4710.3	4460.6	4368.7	4343.3	5237.3	4612.3
52.5°	5941.1	5937.7	5666.6	5211.1	5089.1	5176.8	5048.6	4942.3	4848.9	5706.5	5094.5
55°	5810.1	5827.3	5705.7	5399.8	5395.7	5602.9	5852.6	5764.1	5493.8	6216.2	5510.3
57.5°	5448.5	5522.0	5683.7	5756.6	5925.3	6137.3	6522.1	6574.3	6254.6	6606.6	5855.3
60°	4420.8	4582.0	5111.7	5808.0	6607.9	7136.2	7330.3	7374.9	6878.9	6931.1	6321.2
62.5°	3137.9	3302.6	3974.2	5152.1	6618.2	8448.6	8534.4	8359.3	7566.3	7411.9	7124.5
65°	1665.6	1792.6	2341.4	3718.9	5738.0	8753.2	10639.7	10118.4	8779.2	8358.0	8162.4
67.5°	852.1	890.5	1108.7	1820.0	3944.7	7774.9	12527.0	12894.1	10869.5	9296.6	8112.4
69°	754.0	776.7	921.4	1315.8	2526.0	6585.3	12619.0	13847.0	11963.8	9218.3	7372.2
70°	730.0	749.8	881.5	1190.9	1974.5	5522.6	12267.1	13763.3	12243.7	8920.6	6819.2
72.5°	619.5	636.7	784.8	1052.3	1604.7	2741.5	9964.7	11662.7	10986.9	7431.2	4936.0
75°	414.4	470.6	753.3	986.5	1492.8	1557.3	6569.5	8427.9	7829.1	5012.2	2571.3
77.5°	99.4	107.1	212.6	784.8	1365.2	1370.6	3378.8	5239.3	4273.3	1786.4	607.8
80°	53.5	51.5	59.6	155.7	1271.2	1286.3	1521.0	2543.1	1525.7	296.4	200.3
82.5°	37.7	35.7	38.5	65.2	400.0	1171.8	1100.4	1151.1	632.5	113.8	89.9
85°	13.7	13.0	21.3	59.0	125.5	673.7	1130.7	949.5	512.4	52.1	65.9
87.5°	4.8	4.2	8.2	32.2	38.5	286.8	697.7	717.7	201.7	31.5	30.9
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°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
2.5°	3129.7	3087.1	3009.0	2928.7	2854.6	2765.5	2720.8	2677.0	2658.4	2651.5	2619.3
5°	3039.1	2967.2	2801.1	2634.3	2480.7	2317.4	2209.8	2123.2	2072.5	2047.8	2008.7
7.5°	2923.2	2805.2	2553.4	2296.2	2056.7	1820.7	1645.8	1511.4	1418.7	1374.2	1333.6
10°	2810.7	2653.6	2295.4	1945.0	1619.8	1306.8	1065.4	890.5	778.7	727.2	694.3
12.5°	2709.8	2506.1	2046.4	1602.7	1194.4	828.0	582.5	443.1	373.8	349.8	338.2
15°	2619.9	2370.3	1811.2	1277.4	808.8	473.4	318.3	271.0	260.0	260.0	258.6
17.5°	2535.0	2237.2	1584.0	972.1	507.6	289.5	242.1	236.0	236.0	238.7	238.7
20°	2453.3	2110.3	1364.5	697.7	319.7	229.8	218.8	217.4	218.8	222.3	222.3
22.5°	2383.3	1995.0	1159.4	478.9	237.4	207.1	201.7	199.6	200.3	202.3	203.8
25°	2331.1	1897.7	966.0	324.5	204.5	188.7	182.5	179.0	176.4	176.4	177.6
27.5°	2298.3	1815.3	778.7	236.0	183.9	171.5	161.9	156.5	150.2	146.9	148.1
30°	2274.2	1737.0	603.0	192.8	164.7	152.3	140.0	131.0	122.2	118.0	119.4
32.5°	2265.3	1674.0	450.7	170.1	147.5	133.8	118.6	107.1	97.5	94.0	94.7
35°	2289.3	1623.8	330.0	153.6	133.8	116.6	99.4	86.5	78.8	76.8	77.6
37.5°	2352.5	1597.1	246.9	140.0	121.4	102.2	83.0	70.7	65.9	65.9	66.5
40°	2471.8	1596.4	198.3	130.3	110.5	88.5	68.7	59.6	57.0	58.4	59.0
42.5°	2646.0	1632.8	172.8	121.4	100.8	75.5	57.0	50.8	50.0	51.5	52.1
45°	2884.1	1699.3	159.2	113.8	90.5	63.2	48.1	43.9	43.9	46.0	46.7
47.5°	3175.6	1796.8	147.5	106.3	80.3	52.8	41.2	38.5	39.2	41.2	41.8
50°	3526.9	1919.5	135.8	98.2	72.7	43.9	35.7	33.7	34.3	37.0	37.7
52.5°	3926.9	2084.8	126.2	90.5	63.2	36.4	30.1	28.9	30.1	32.9	33.7
55°	4269.9	2233.0	114.6	84.3	50.8	30.1	24.7	24.7	26.1	29.5	30.1
57.5°	4600.0	2388.1	104.3	72.7	39.8	24.0	20.5	21.3	23.3	26.8	27.5
60°	5084.3	2650.8	91.9	61.0	30.1	19.2	17.2	17.8	20.5	24.0	24.7
62.5°	5906.8	3050.8	79.5	50.8	23.3	15.1	13.7	15.1	18.6	22.6	23.3
65°	6649.1	3213.5	65.2	42.5	17.8	11.7	11.7	13.7	17.8	22.0	22.6
67.5°	6235.4	2705.0	50.8	33.7	13.7	9.0	9.7	13.0	17.2	22.0	22.6
69°	5514.4	2211.7	43.2	26.8	11.7	8.2	9.0	13.0	17.2	21.3	22.0
70°	4952.5	1867.4	38.5	22.6	10.3	8.2	9.0	12.3	17.2	21.3	22.0
72.5°	3317.0	1008.5	30.9	16.5	9.7	7.5	7.5	12.3	16.5	20.5	21.3
75°	1425.7	278.5	24.7	11.7	8.2	6.9	6.9	11.7	15.8	19.8	21.3
77.5°	260.7	70.7	19.8	10.3	8.2	6.9	6.2	10.9	15.1	19.2	19.8
80°	103.6	35.0	15.8	9.0	7.5	6.2	5.5	10.3	14.4	18.6	19.2
82.5°	62.4	19.8	13.0	8.2	7.5	5.5	4.8	9.0	13.7	17.8	18.6
85°	50.8	13.7	10.3	8.2	6.9	5.5	4.2	8.2	12.3	17.2	17.8
87.5°	24.7	9.7	9.7	7.5	6.9	5.5	4.2	7.5	11.7	16.5	17.2
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)