

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: P193613

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15669 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

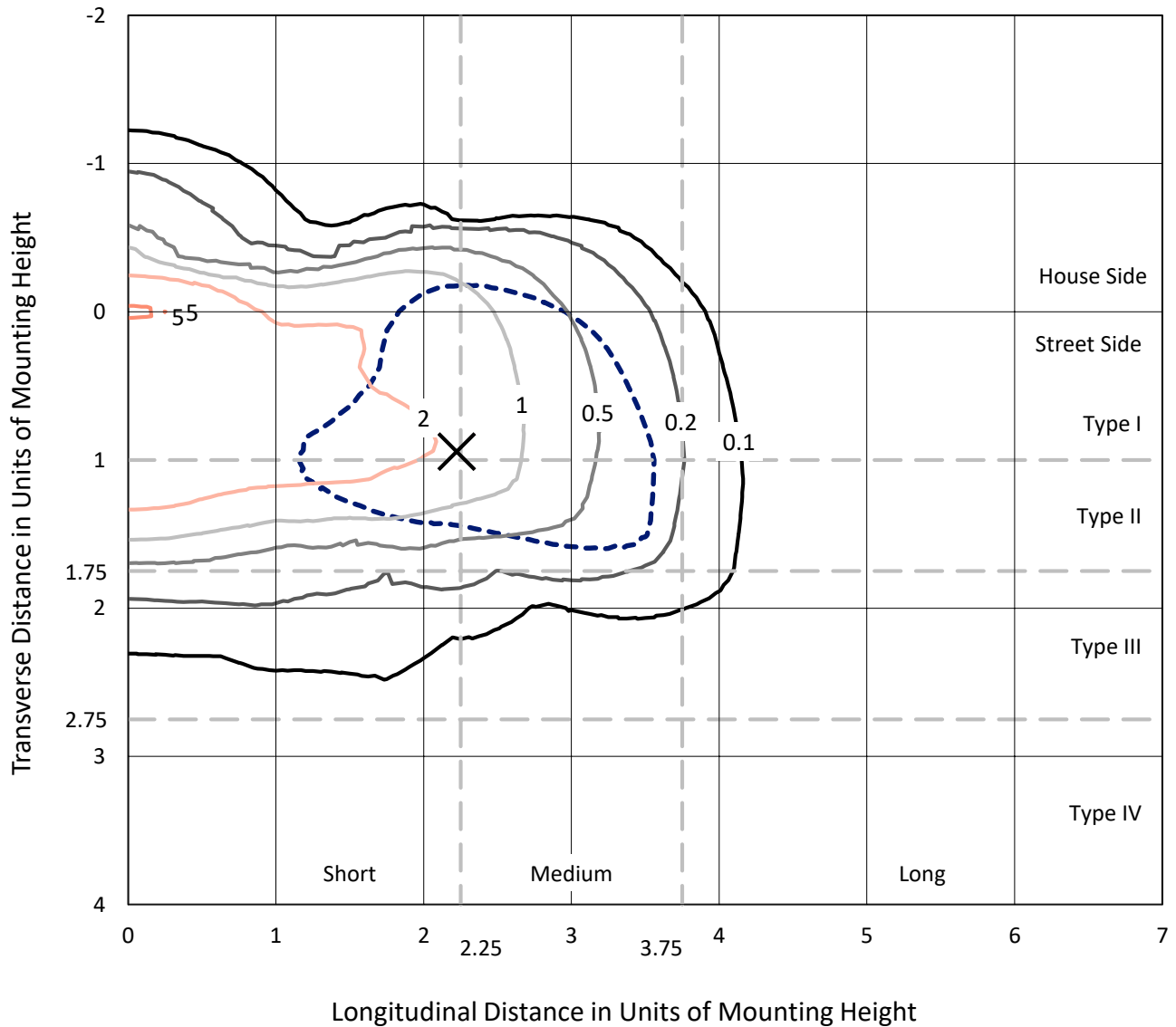


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Iso-Footcandle Lines of Horizontal Illumination

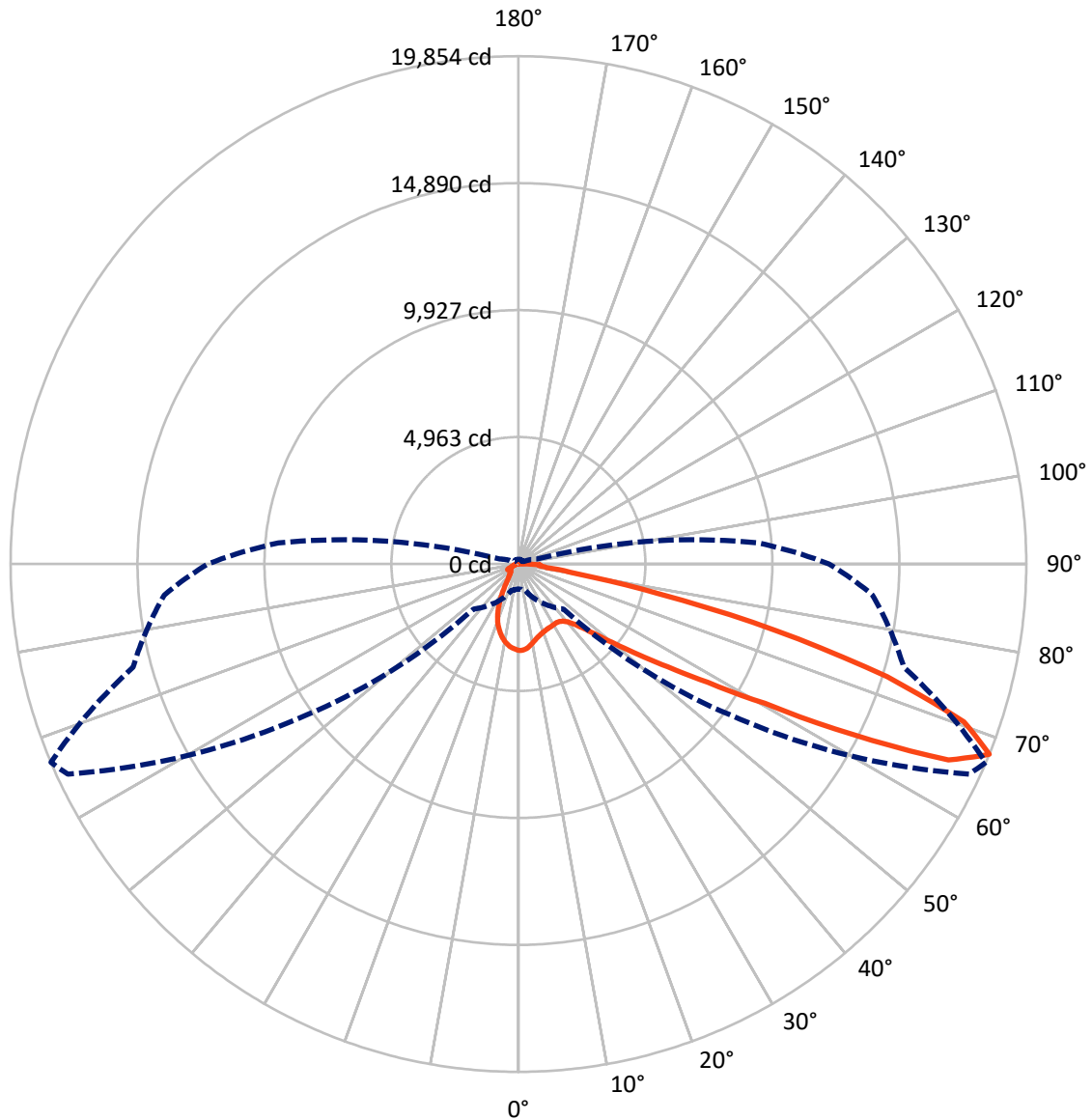
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.2	0.0	2596.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	13072.8	0.0	13072.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	15669.0	0.0	15669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	1.8
10°-20°	667.2	4.3
20°-30°	904.4	5.8
30°-40°	1285.7	8.2
40°-50°	2151.0	13.7
50°-60°	3402.8	21.7
60°-70°	4334.9	27.7
70°-80°	2270.6	14.5
80°-90°	364.2	2.3
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°	15669.0	100.0
0°-180°	15669.0	100.0

Coefficient of Utilization



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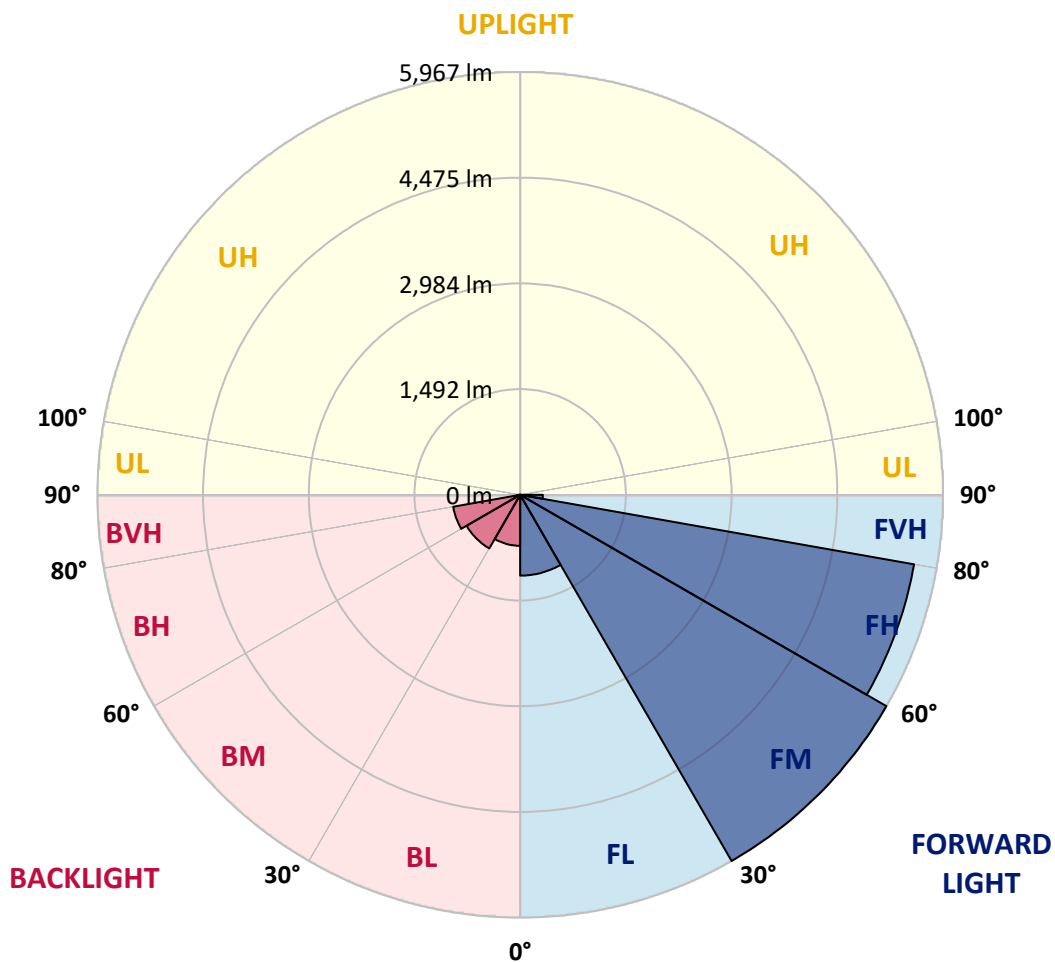
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1140.3	7.3			
FM	(30°-60°)	5967.1	38.1			
FH	(60°-80°)	5645.2	36.0			G3/7500
FVH	(80°-90°)	320.2	2.0			G3/500
BL	(0°-30°)	719.6	4.6	B2/1000		
BM	(30°-60°)	872.4	5.6	B1/1000		
BH	(60°-80°)	960.2	6.1	B2/1000		G2/1000
BVH	(80°-90°)	44.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8
2.5°	3240.7	3246.1	3263.1	3273.9	3322.6	3343.4	3358.1	3372.8	3375.1	3382.1	3375.1
5°	2900.7	2912.3	2944.0	2979.5	3073.8	3148.0	3226.0	3307.1	3321.8	3374.4	3389.0
7.5°	2637.2	2634.1	2660.4	2702.9	2799.5	2902.2	3039.0	3200.5	3232.2	3350.4	3407.6
10°	2444.8	2442.5	2470.3	2514.3	2606.3	2703.7	2858.2	3079.2	3124.0	3312.5	3425.4
12.5°	2302.6	2303.4	2331.2	2379.9	2473.4	2571.5	2728.4	2961.7	3018.9	3268.5	3443.9
15°	2208.4	2214.5	2237.0	2288.7	2379.9	2478.0	2631.8	2873.7	2937.8	3233.7	3464.8
17.5°	2176.7	2186.7	2194.5	2232.3	2310.4	2408.5	2559.2	2808.7	2876.7	3209.8	3483.3
20°	2206.0	2217.6	2203.0	2216.1	2265.5	2352.1	2502.0	2757.7	2827.3	3182.7	3485.6
22.5°	2332.0	2342.8	2299.5	2261.7	2258.6	2311.1	2454.8	2717.6	2789.4	3162.6	3486.4
25°	2553.8	2560.7	2488.1	2400.0	2314.2	2296.4	2421.6	2689.7	2766.2	3144.9	3471.7
27.5°	2825.7	2831.2	2747.7	2617.9	2445.6	2331.2	2410.0	2673.5	2753.1	3129.4	3447.0
30°	3156.5	3182.0	3069.9	2906.1	2655.0	2434.0	2433.2	2665.0	2738.4	3103.1	3398.3
32.5°	3494.9	3505.7	3428.4	3262.3	2937.0	2614.8	2498.1	2671.2	2734.6	3071.5	3336.5
35°	3838.0	3851.9	3801.7	3668.0	3322.6	2879.8	2624.8	2707.5	2758.5	3060.6	3293.2
37.5°	4282.3	4300.8	4231.3	4076.7	3791.6	3239.1	2835.8	2798.7	2831.9	3091.5	3280.1
40°	4984.7	4976.2	4772.9	4542.7	4304.7	3698.9	3137.1	2953.2	2972.6	3191.2	3320.3
42.5°	5802.2	5781.3	5431.3	5069.6	4868.7	4255.2	3535.8	3221.4	3217.5	3387.5	3461.7
45°	6454.3	6437.3	6122.1	5676.2	5515.5	4888.8	4051.2	3620.8	3592.3	3698.9	3722.8
47.5°	6807.4	6808.2	6626.6	6262.7	6258.8	5694.0	4713.4	4198.8	4149.4	4199.6	4174.1
50°	6683.8	6700.0	6680.7	6564.8	6937.2	6749.5	5578.1	5004.7	4905.1	4954.5	4856.4
52.5°	6085.7	6106.6	6221.0	6398.7	7222.4	8025.2	6848.4	6006.2	5890.2	5872.5	5763.5
55°	5025.6	5051.1	5284.5	5767.4	6985.2	8882.1	8852.8	7282.6	7098.0	6930.3	6883.9
57.5°	3464.0	3506.5	3882.0	4599.1	6217.9	9141.0	11239.6	9102.3	8726.8	8141.1	8151.9
60°	1952.6	2002.1	2444.8	3096.2	4669.4	8859.7	13055.4	11858.5	11065.8	9559.0	9639.4
62.5°	1241.7	1295.0	1631.2	2151.2	2801.8	7345.2	13799.5	15690.3	14683.5	11306.8	11385.7
65°	1005.3	1028.5	1186.9	1775.7	2034.5	4425.2	13234.7	18846.8	18471.3	13525.2	13157.4
67.5°	981.3	989.0	1071.0	1490.5	1951.1	2487.3	10556.5	19437.1	19853.6	15596.8	13895.4
70°	969.7	996.8	1206.9	1422.5	1868.4	2097.9	6343.8	17819.1	18476.7	16138.5	12913.3
72.5°	470.6	469.0	607.3	1286.5	2104.8	2175.9	3259.2	14417.7	15077.6	13981.9	10611.4
75°	379.4	346.9	331.5	471.3	2023.7	2247.0	2077.0	9920.6	10398.1	9374.3	6523.1
77.5°	360.1	321.4	294.4	295.2	855.4	2383.0	1759.4	5490.8	5629.9	4234.4	1787.2
80°	298.3	262.7	243.4	274.3	414.2	2269.4	1902.4	2485.0	2280.2	1040.0	595.0
82.5°	207.1	188.5	183.1	230.3	331.5	1617.2	2212.2	1335.2	1119.6	520.8	367.0
85°	132.1	112.8	125.2	167.7	258.1	746.4	2278.7	1040.8	827.6	330.7	207.1
87.5°	61.0	49.5	61.8	92.7	168.4	257.3	2168.2	1169.1	852.3	174.6	130.6
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°	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8	3379.8
2.5°	3381.3	3366.6	3355.0	3333.4	3309.4	3286.3	3265.4	3239.1	3231.4	3224.5	3235.3
5°	3392.1	3377.4	3334.9	3268.5	3195.1	3126.3	3057.6	2998.8	2962.5	2942.4	2954.0
7.5°	3408.4	3387.5	3299.4	3177.3	3045.2	2924.6	2800.2	2700.6	2627.2	2592.4	2602.4
10°	3423.0	3382.9	3239.1	3056.0	2862.8	2683.6	2487.3	2325.0	2204.5	2141.1	2156.6
12.5°	3429.2	3365.1	3154.9	2904.6	2639.5	2376.8	2087.8	1845.2	1672.1	1608.7	1595.6
15°	3435.4	3345.0	3062.2	2732.2	2369.9	1998.2	1593.3	1302.8	1159.0	1127.4	1120.4
17.5°	3436.9	3310.2	2957.1	2545.3	2053.8	1547.7	1089.5	904.8	905.6	956.6	962.8
20°	3420.7	3258.5	2829.6	2312.7	1675.2	1070.2	748.0	716.3	833.0	960.5	975.9
22.5°	3383.6	3189.7	2685.1	2041.5	1241.7	704.7	578.7	613.5	764.2	920.3	938.1
25°	3336.5	3106.2	2514.3	1727.0	822.1	503.8	485.3	527.8	629.7	734.1	744.1
27.5°	3272.4	3007.3	2322.7	1366.9	533.9	414.9	427.3	455.9	497.6	544.0	548.6
30°	3189.7	2889.1	2118.0	996.8	403.3	373.2	391.0	406.4	424.2	450.5	452.8
32.5°	3094.6	2775.5	1907.8	688.5	357.8	351.6	365.5	373.2	387.1	403.3	404.9
35°	3015.1	2667.3	1689.9	486.8	338.4	335.3	344.6	347.7	360.8	378.6	380.2
37.5°	2969.5	2579.3	1465.0	392.5	325.3	320.7	326.1	326.1	344.6	370.9	374.8
40°	2972.6	2530.6	1240.2	354.7	314.5	308.3	309.1	309.1	333.0	361.6	363.9
42.5°	3056.8	2542.9	1040.8	340.0	306.0	299.0	295.2	297.5	317.6	336.1	337.7
45°	3254.6	2630.3	853.8	330.7	297.5	295.2	286.7	285.9	293.6	302.1	302.1
47.5°	3579.1	2802.6	727.1	324.5	290.5	289.8	279.7	269.7	268.9	272.0	272.0
50°	4106.9	3099.3	642.1	317.6	285.9	279.7	268.1	252.7	247.3	249.6	249.6
52.5°	4898.1	3628.6	609.7	308.3	275.9	265.8	252.7	237.2	232.6	233.4	233.4
55°	5935.8	4441.4	605.0	297.5	265.0	248.8	238.0	226.4	221.0	222.5	222.5
57.5°	7203.8	5565.7	687.7	280.5	250.4	231.8	225.6	217.9	214.0	216.4	215.6
60°	8745.4	7036.9	1020.0	262.7	235.7	216.4	216.4	210.2	207.1	209.4	208.6
62.5°	10521.0	8726.8	1434.1	249.6	220.2	204.0	207.1	204.0	200.9	202.4	201.7
65°	12095.8	9827.9	1342.9	239.5	204.8	192.4	197.8	196.3	193.9	195.5	194.7
67.5°	12141.3	9419.9	754.1	228.7	190.1	180.8	188.5	187.8	186.2	187.8	187.0
70°	10835.5	7954.1	425.0	208.6	174.6	166.9	177.7	176.9	175.4	178.5	177.7
72.5°	8681.2	5772.0	310.6	183.9	159.2	152.2	164.6	163.8	163.8	168.4	166.1
75°	4995.5	2970.2	248.0	157.6	142.9	137.5	148.4	149.1	150.7	156.9	152.2
77.5°	1424.1	925.7	202.4	133.7	122.9	120.5	131.4	132.9	133.7	140.6	134.4
80°	529.3	426.5	166.9	112.0	100.5	101.2	111.3	113.6	114.4	121.3	113.6
82.5°	337.7	281.3	135.2	86.5	78.8	78.0	90.4	93.5	93.5	94.3	89.6
85°	197.0	168.4	102.0	62.6	55.6	53.3	67.2	72.6	70.3	68.8	65.7
87.5°	132.1	115.9	62.6	34.8	30.1	28.6	39.4	43.3	41.7	39.4	37.1
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)