

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: P193622

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193622
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-04-LED-E1-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 15508 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

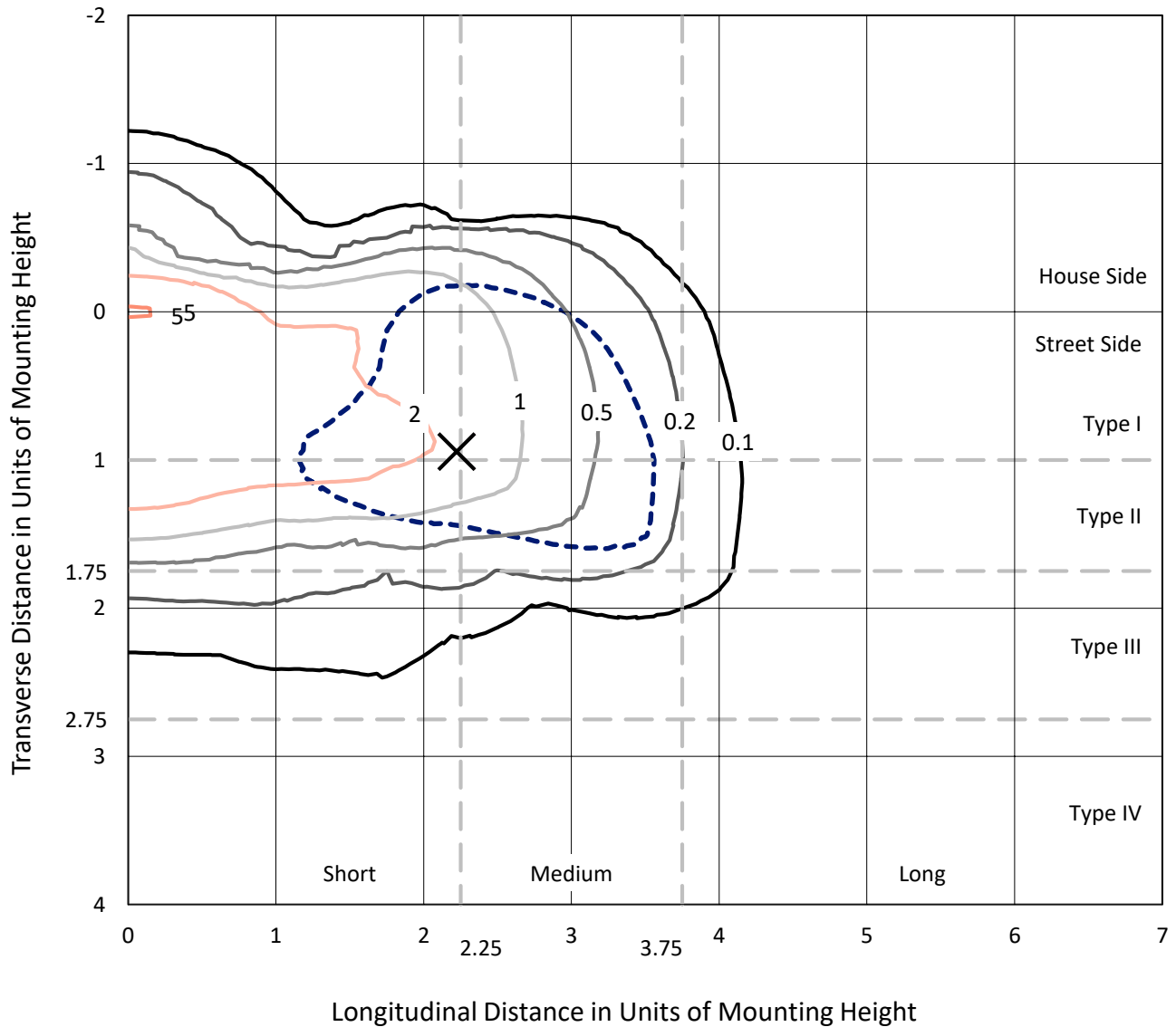


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Iso-Footcandle Lines of Horizontal Illumination

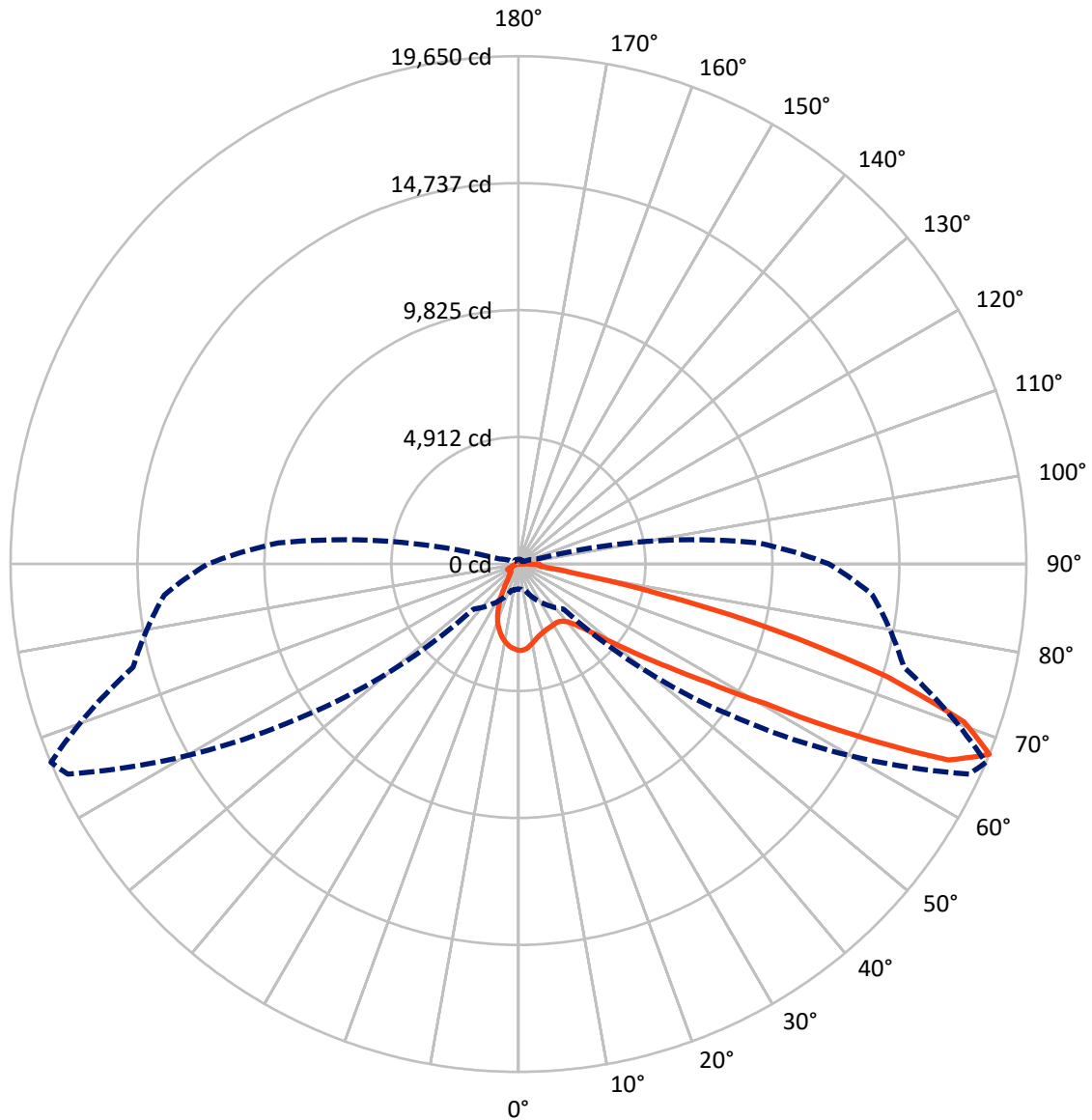
× Max cd
 - - - 1/2 Max cd



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	2569.5	0.0	2569.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	12938.5	0.0	12938.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	15508.0	0.0	15508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	1.8
10°-20°	660.3	4.3
20°-30°	895.1	5.8
30°-40°	1272.5	8.2
40°-50°	2128.9	13.7
50°-60°	3367.9	21.7
60°-70°	4290.3	27.7
70°-80°	2247.3	14.5
80°-90°	360.4	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°	15508.0	100.0
0°-180°	15508.0	100.0

Coefficient of Utilization



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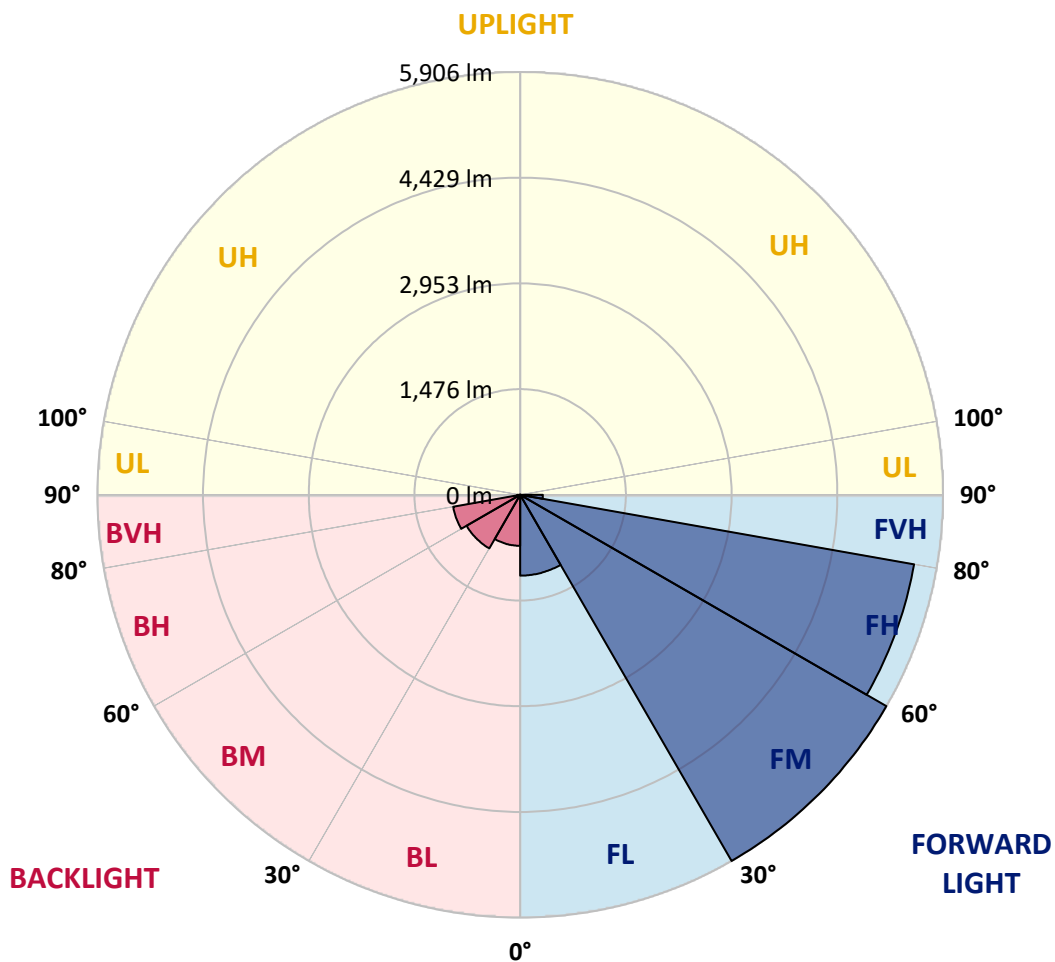
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.6	7.3			
FM (30°-60°)	5905.8	38.1			
FH (60°-80°)	5587.2	36.0			G3/7500
FVH (80°-90°)	316.9	2.0			G3/500
BL (0°-30°)	712.2	4.6	B2/1000		
BM (30°-60°)	863.4	5.6	B1/1000		
BH (60°-80°)	950.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	43.5	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°	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0
2.5°	3207.4	3212.7	3229.6	3240.3	3288.4	3309.1	3323.6	3338.2	3340.4	3347.3	3340.4
5°	2870.9	2882.4	2913.7	2948.9	3042.2	3115.6	3192.9	3273.2	3287.7	3339.7	3354.2
7.5°	2610.1	2607.0	2633.1	2675.1	2770.7	2872.4	3007.8	3167.6	3199.0	3316.0	3372.6
10°	2419.7	2417.4	2444.9	2488.5	2579.5	2675.9	2828.8	3047.5	3091.9	3278.5	3390.2
12.5°	2279.0	2279.7	2307.3	2355.4	2448.0	2545.1	2700.3	2931.3	2987.9	3234.9	3408.5
15°	2185.7	2191.8	2214.0	2265.2	2355.4	2452.6	2604.8	2844.1	2907.6	3200.5	3429.2
17.5°	2154.3	2164.3	2171.9	2209.4	2286.6	2383.7	2532.9	2779.9	2847.2	3176.8	3447.5
20°	2183.4	2194.8	2180.3	2193.3	2242.3	2327.9	2476.3	2729.4	2798.2	3150.0	3449.8
22.5°	2308.0	2318.7	2275.9	2238.4	2235.4	2287.4	2429.6	2689.6	2760.8	3130.1	3450.6
25°	2527.5	2534.4	2462.5	2375.3	2290.4	2272.9	2396.7	2662.1	2737.8	3112.6	3436.0
27.5°	2796.7	2802.1	2719.5	2591.0	2420.4	2307.3	2385.3	2646.1	2724.8	3097.3	3411.6
30°	3124.0	3149.3	3038.4	2876.2	2627.7	2409.0	2408.2	2637.6	2710.3	3071.3	3363.4
32.5°	3459.0	3469.7	3393.2	3228.8	2906.8	2587.9	2472.5	2643.8	2706.5	3039.9	3302.2
35°	3798.5	3812.3	3762.6	3630.3	3288.4	2850.2	2597.9	2679.7	2730.2	3029.2	3259.4
37.5°	4238.3	4256.6	4187.8	4034.8	3752.7	3205.9	2806.7	2769.9	2802.8	3059.8	3246.4
40°	4933.4	4925.0	4723.9	4496.0	4260.4	3660.9	3104.9	2922.9	2942.0	3158.4	3286.2
42.5°	5742.5	5721.9	5375.5	5017.6	4818.7	4211.5	3499.5	3188.3	3184.4	3352.7	3426.1
45°	6388.0	6371.2	6059.2	5617.9	5458.8	4838.6	4009.6	3583.6	3555.3	3660.9	3684.6
47.5°	6737.5	6738.3	6558.5	6198.3	6194.5	5635.5	4665.0	4155.7	4106.7	4156.4	4131.2
50°	6615.1	6631.2	6612.1	6497.4	6866.0	6680.1	5520.8	4953.3	4854.7	4903.6	4806.5
52.5°	6023.2	6043.9	6157.0	6332.9	7148.2	7942.7	6778.0	5944.4	5829.7	5812.1	5704.3
55°	4974.0	4999.2	5230.2	5708.1	6913.4	8790.9	8761.8	7207.8	7025.0	6859.1	6813.2
57.5°	3428.4	3470.5	3842.1	4551.8	6154.0	9047.0	11124.1	9008.8	8637.1	8057.5	8068.2
60°	1932.5	1981.5	2419.7	3064.4	4621.4	8768.7	12921.3	11736.7	10952.1	9460.8	9540.3
62.5°	1229.0	1281.7	1614.4	2129.1	2773.0	7269.8	13657.8	15529.1	14532.6	11190.7	11268.7
65°	994.9	1017.9	1174.7	1757.4	2013.6	4379.8	13098.7	18653.1	18281.5	13386.3	13022.2
67.5°	971.2	978.9	1060.0	1475.2	1931.0	2461.7	10448.1	19237.4	19649.6	15436.6	13752.6
70°	959.8	986.5	1194.5	1407.9	1849.2	2076.3	6278.6	17636.0	18286.8	15972.7	12780.6
72.5°	465.7	464.2	601.1	1273.3	2083.2	2153.5	3225.7	14269.6	14922.7	13838.2	10502.4
75°	375.5	343.4	328.1	466.5	2002.9	2223.9	2055.7	9818.7	10291.3	9278.0	6456.1
77.5°	356.4	318.1	291.4	292.1	846.6	2358.5	1741.3	5434.3	5572.0	4190.9	1768.9
80°	295.2	260.0	240.9	271.5	409.9	2246.1	1882.8	2459.5	2256.8	1029.4	588.9
82.5°	205.0	186.6	181.2	227.9	328.1	1600.6	2189.5	1321.5	1108.1	515.4	363.3
85°	130.8	111.7	123.9	166.0	255.4	738.8	2255.3	1030.1	819.1	327.3	205.0
87.5°	60.4	48.9	61.2	91.8	166.7	254.7	2145.9	1157.1	843.5	172.8	129.2
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°	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0	3345.0
2.5°	3346.6	3332.0	3320.6	3299.2	3275.4	3252.5	3231.9	3205.9	3198.2	3191.3	3202.0
5°	3357.3	3342.7	3300.7	3234.9	3162.3	3094.2	3026.1	2968.0	2932.1	2912.2	2923.7
7.5°	3373.3	3352.7	3265.5	3144.7	3013.9	2894.6	2771.5	2672.8	2600.2	2565.8	2575.7
10°	3387.9	3348.1	3205.9	3024.6	2833.4	2656.0	2461.7	2301.1	2181.8	2119.1	2134.4
12.5°	3394.0	3330.5	3122.5	2874.7	2612.4	2352.4	2066.4	1826.2	1654.9	1592.2	1579.2
15°	3400.1	3310.6	3030.7	2704.2	2345.5	1977.7	1576.9	1289.4	1147.1	1115.8	1108.9
17.5°	3401.6	3276.2	2926.7	2519.1	2032.7	1531.8	1078.3	895.5	896.3	946.8	952.9
20°	3385.6	3225.0	2800.5	2288.9	1658.0	1059.2	740.3	708.9	824.4	950.6	965.9
22.5°	3348.9	3156.9	2657.5	2020.5	1229.0	697.5	572.8	607.2	756.3	910.8	928.4
25°	3302.2	3074.3	2488.5	1709.2	813.7	498.6	480.3	522.3	623.3	726.5	736.5
27.5°	3238.7	2976.4	2298.9	1352.9	528.4	410.7	422.9	451.2	492.5	538.4	543.0
30°	3156.9	2859.4	2096.2	986.5	399.2	369.4	387.0	402.3	419.9	445.9	448.1
32.5°	3062.8	2747.0	1888.2	681.4	354.1	348.0	361.7	369.4	383.1	399.2	400.7
35°	2984.1	2639.9	1672.5	481.8	335.0	331.9	341.1	344.1	357.1	374.7	376.3
37.5°	2939.0	2552.8	1450.0	388.5	322.0	317.4	322.7	322.7	341.1	367.1	370.9
40°	2942.0	2504.6	1227.4	351.0	311.3	305.1	305.9	305.9	329.6	357.9	360.2
42.5°	3025.4	2516.8	1030.1	336.5	302.8	296.0	292.1	294.4	314.3	332.7	334.2
45°	3221.1	2603.2	845.1	327.3	294.4	292.1	283.7	283.0	290.6	299.0	299.0
47.5°	3542.3	2773.8	719.6	321.2	287.5	286.8	276.8	266.9	266.1	269.2	269.2
50°	4064.7	3067.4	635.5	314.3	283.0	276.8	265.4	250.1	244.7	247.0	247.0
52.5°	4847.8	3591.3	603.4	305.1	273.0	263.1	250.1	234.8	230.2	231.0	231.0
55°	5874.8	4395.8	598.8	294.4	262.3	246.3	235.5	224.1	218.7	220.2	220.2
57.5°	7129.8	5508.5	680.6	277.6	247.8	229.4	223.3	215.7	211.8	214.1	213.4
60°	8655.5	6964.6	1009.5	260.0	233.3	214.1	214.1	208.0	205.0	207.2	206.5
62.5°	10412.9	8637.1	1419.4	247.0	218.0	201.9	205.0	201.9	198.8	200.4	199.6
65°	11971.5	9726.9	1329.1	237.1	202.7	190.4	195.8	194.2	192.0	193.5	192.7
67.5°	12016.6	9323.1	746.4	226.4	188.1	179.0	186.6	185.8	184.3	185.8	185.1
70°	10724.2	7872.4	420.6	206.5	172.8	165.2	175.9	175.1	173.6	176.7	175.9
72.5°	8592.0	5712.7	307.4	182.0	157.5	150.7	162.9	162.1	162.1	166.7	164.4
75°	4944.1	2939.7	245.5	156.0	141.5	136.1	146.8	147.6	149.1	155.2	150.7
77.5°	1409.4	916.2	200.4	132.3	121.6	119.3	130.0	131.5	132.3	139.2	133.1
80°	523.9	422.1	165.2	110.9	99.4	100.2	110.1	112.4	113.2	120.1	112.4
82.5°	334.2	278.4	133.8	85.7	78.0	77.2	89.5	92.5	92.5	93.3	88.7
85°	195.0	166.7	100.9	61.9	55.1	52.8	66.5	71.9	69.6	68.1	65.0
87.5°	130.8	114.7	61.9	34.4	29.8	28.3	39.0	42.8	41.3	39.0	36.7
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)