

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: P192812

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192812
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-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 14989.3 lumens
Efficiency: N/A
Efficacy: 116.2 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): 129
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



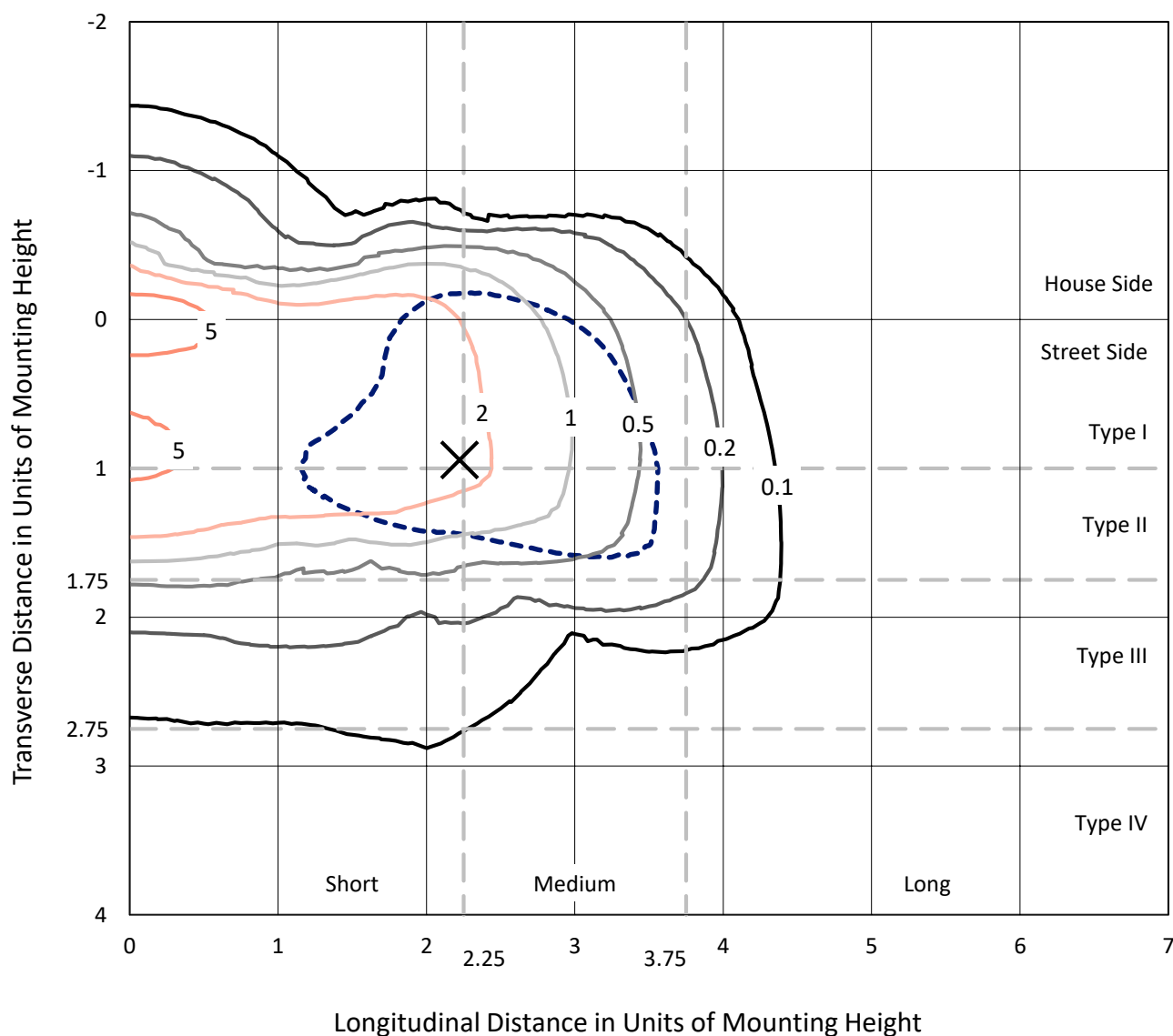
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

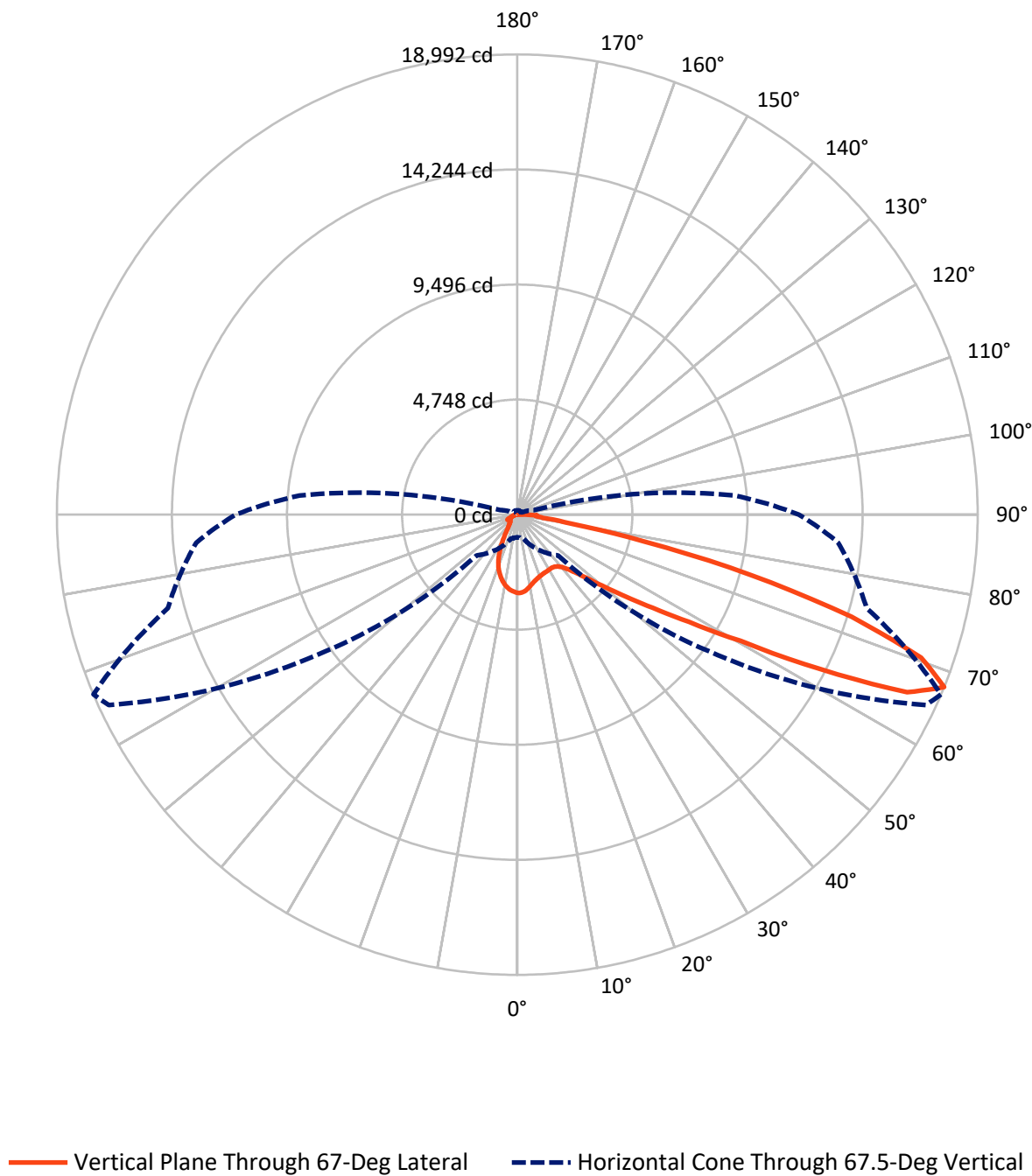


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.5	0.0	2483.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	12505.7	0.0	12505.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	14989.3	0.0	14989.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.8
10°-20°	638.2	4.3
20°-30°	865.2	5.8
30°-40°	1229.9	8.2
40°-50°	2057.7	13.7
50°-60°	3255.2	21.7
60°-70°	4146.8	27.7
70°-80°	2172.1	14.5
80°-90°	348.4	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°	14989.3	100.0
0°-180°	14989.3	100.0

Coefficient of Utilization



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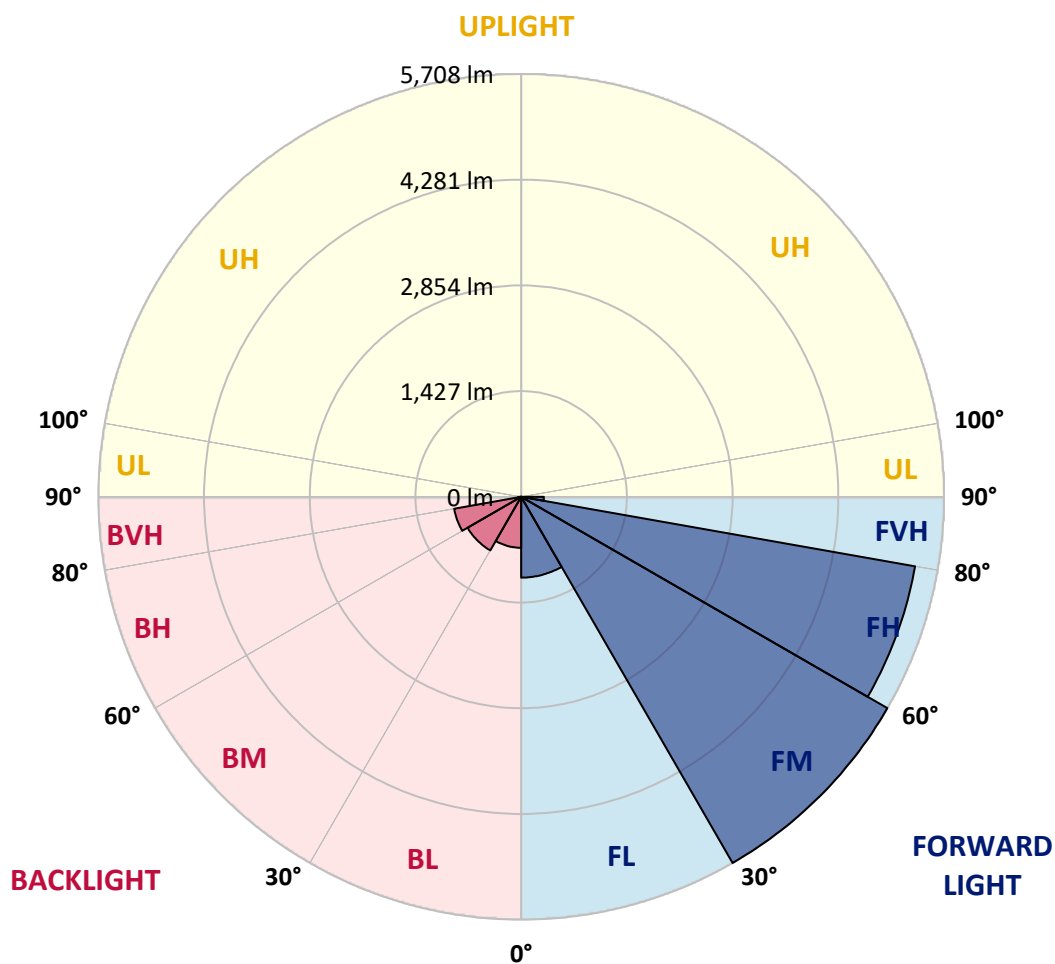
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.9	7.3			
FM	(30°-60°)	5708.2	38.1			
FH	(60°-80°)	5400.3	36.0			G3/7500
FVH	(80°-90°)	306.3	2.0			G3/500
BL	(0°-30°)	688.4	4.6	B2/1000		
BM	(30°-60°)	834.5	5.6	B1/1000		
BH	(60°-80°)	918.6	6.1	B2/1000		G2/1000
BVH	(80°-90°)	42.1	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°	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2
2.5°	3100.1	3105.2	3121.5	3131.9	3178.5	3198.4	3212.4	3226.5	3228.7	3235.3	3228.7
5°	2774.8	2786.0	2816.2	2850.2	2940.3	3011.4	3086.0	3163.7	3177.7	3227.9	3242.0
7.5°	2522.8	2519.8	2544.9	2585.6	2678.1	2776.4	2907.2	3061.7	3091.9	3205.0	3259.7
10°	2338.7	2336.5	2363.2	2405.3	2493.2	2586.3	2734.2	2945.6	2988.5	3168.8	3276.8
12.5°	2202.7	2203.4	2230.1	2276.6	2366.1	2460.0	2609.9	2833.3	2887.9	3126.7	3294.5
15°	2112.5	2118.4	2140.0	2189.4	2276.6	2370.5	2517.7	2749.0	2810.3	3093.4	3314.5
17.5°	2082.3	2091.9	2099.3	2135.5	2210.1	2304.1	2448.2	2686.9	2751.9	3070.5	3332.2
20°	2110.4	2121.4	2107.4	2119.9	2167.2	2250.0	2393.5	2638.1	2704.6	3044.6	3334.4
22.5°	2230.8	2241.1	2199.8	2163.6	2160.6	2210.9	2348.3	2599.8	2668.4	3025.4	3335.1
25°	2442.9	2449.6	2380.1	2295.9	2213.8	2196.8	2316.7	2573.0	2646.3	3008.5	3321.2
27.5°	2703.2	2708.3	2628.6	2504.3	2339.5	2230.1	2305.5	2557.5	2633.7	2993.7	3297.5
30°	3019.5	3044.0	2936.8	2780.0	2539.8	2328.5	2327.7	2549.4	2619.6	2968.6	3250.9
32.5°	3343.4	3353.6	3279.8	3120.8	2809.6	2501.4	2389.7	2555.3	2615.8	2938.2	3191.8
35°	3671.4	3684.8	3636.7	3508.9	3178.5	2754.9	2511.0	2590.1	2638.8	2927.8	3150.4
37.5°	4096.4	4114.2	4047.7	3899.9	3627.1	3098.6	2712.8	2677.3	2709.1	2957.4	3137.8
40°	4768.4	4760.3	4565.8	4345.6	4118.0	3538.5	3001.1	2825.1	2843.6	3052.8	3176.2
42.5°	5550.5	5530.4	5195.6	4849.7	4657.5	4070.7	3382.4	3081.6	3078.0	3240.5	3311.5
45°	6174.3	6158.1	5856.6	5429.9	5276.2	4676.8	3875.5	3463.7	3436.4	3538.5	3561.3
47.5°	6512.2	6512.8	6339.1	5991.0	5987.3	5447.0	4509.0	4016.7	3969.4	4017.5	3993.0
50°	6393.9	6409.3	6390.9	6280.0	6636.3	6456.6	5336.1	4787.6	4692.2	4739.5	4645.7
52.5°	5821.8	5841.6	5951.2	6121.1	6909.1	7677.1	6551.3	5745.6	5634.7	5617.7	5513.6
55°	4807.6	4832.0	5055.2	5517.1	6682.2	8496.8	8468.6	6966.7	6790.0	6629.7	6585.3
57.5°	3313.8	3354.4	3713.6	4399.6	5948.2	8744.4	10751.9	8707.5	8348.3	7788.0	7798.3
60°	1867.9	1915.2	2338.7	2961.9	4466.8	8475.4	12489.1	11344.1	10585.7	9144.4	9221.2
62.5°	1187.8	1238.9	1560.4	2057.9	2680.2	7026.6	13200.9	15009.7	14046.6	10816.3	10891.7
65°	961.7	983.9	1135.4	1698.7	1946.2	4233.2	12660.6	18029.2	17670.0	12938.5	12586.6
67.5°	938.7	946.1	1024.6	1425.9	1866.3	2379.4	10098.7	18594.0	18992.3	14920.2	13292.6
70°	927.6	953.5	1154.6	1360.9	1787.4	2006.9	6068.6	17046.1	17675.2	15438.5	12353.1
72.5°	450.1	448.7	581.0	1230.7	2013.5	2081.5	3117.8	13792.3	14423.6	13375.4	10151.1
75°	363.0	331.9	317.1	450.9	1935.8	2149.5	1986.9	9490.3	9947.1	8967.7	6240.2
77.5°	344.5	307.4	281.7	282.3	818.3	2279.5	1683.1	5252.5	5385.6	4050.7	1709.7
80°	285.2	251.3	232.8	262.4	396.2	2171.0	1819.8	2377.2	2181.3	995.0	569.1
82.5°	198.1	180.4	175.2	220.2	317.1	1547.1	2116.3	1277.2	1071.1	498.2	351.2
85°	126.4	107.9	119.7	160.4	246.9	714.0	2179.8	995.7	791.7	316.5	198.1
87.5°	58.4	47.3	59.1	88.7	161.1	246.2	2074.2	1118.4	815.3	167.0	124.9
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°	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2	3233.2
2.5°	3234.6	3220.6	3209.5	3188.8	3165.9	3143.7	3123.7	3098.6	3091.3	3084.6	3094.9
5°	3245.0	3230.9	3190.3	3126.7	3056.5	2990.8	2924.9	2868.7	2833.9	2814.7	2825.9
7.5°	3260.6	3240.5	3156.3	3039.5	2913.1	2797.8	2678.8	2583.4	2513.2	2479.9	2489.6
10°	3274.5	3236.2	3098.6	2923.4	2738.7	2567.1	2379.4	2224.2	2108.8	2048.3	2063.1
12.5°	3280.5	3219.1	3018.1	2778.6	2525.0	2273.6	1997.3	1765.2	1599.5	1538.9	1526.4
15°	3286.4	3199.8	2929.3	2613.7	2267.0	1911.5	1524.1	1246.2	1108.8	1078.5	1071.9
17.5°	3287.8	3166.7	2828.8	2434.9	1964.7	1480.6	1042.3	865.6	866.3	915.0	921.0
20°	3272.4	3117.0	2706.9	2212.4	1602.5	1023.8	715.5	685.2	796.8	918.8	933.6
22.5°	3236.8	3051.3	2568.6	1952.9	1187.8	674.1	553.6	586.9	731.1	880.4	897.3
25°	3191.8	2971.6	2405.3	1652.1	786.4	482.0	464.3	504.9	602.4	702.2	711.9
27.5°	3130.4	2876.9	2222.0	1307.7	510.8	396.9	408.7	436.2	476.1	520.4	524.8
30°	3051.3	2763.8	2026.1	953.5	385.9	357.1	374.0	388.9	405.8	430.9	433.1
32.5°	2960.4	2655.1	1825.0	658.7	342.2	336.3	349.6	357.1	370.3	385.9	387.4
35°	2884.2	2551.6	1616.6	465.7	323.7	320.7	329.6	332.5	345.2	362.2	363.8
37.5°	2840.6	2467.4	1401.5	375.6	311.2	306.8	311.9	311.9	329.6	354.8	358.5
40°	2843.6	2420.7	1186.3	339.2	300.8	294.9	295.6	295.6	318.6	346.0	348.1
42.5°	2924.3	2432.6	995.7	325.3	292.7	286.0	282.3	284.6	303.8	321.6	323.0
45°	3113.5	2516.1	816.8	316.5	284.6	282.3	274.2	273.4	280.9	289.0	289.0
47.5°	3423.8	2681.0	695.6	310.4	277.9	277.2	267.5	258.0	257.2	260.1	260.1
50°	3928.8	2964.9	614.2	303.8	273.4	267.5	256.5	241.7	236.5	238.7	238.7
52.5°	4685.6	3471.1	583.2	294.9	263.9	254.2	241.7	226.9	222.5	223.2	223.2
55°	5678.3	4248.8	578.7	284.6	253.6	237.9	227.7	216.6	211.4	212.8	212.8
57.5°	6891.3	5324.3	657.8	268.3	239.5	221.8	215.8	208.4	204.8	206.9	206.3
60°	8366.0	6731.7	975.6	251.3	225.4	206.9	206.9	201.0	198.1	200.3	199.6
62.5°	10064.6	8348.3	1371.9	238.7	210.7	195.1	198.1	195.1	192.2	193.7	193.0
65°	11571.0	9401.5	1284.7	229.1	195.9	184.1	189.2	187.7	185.5	187.1	186.3
67.5°	11614.7	9011.2	721.4	218.8	181.8	172.9	180.4	179.6	178.1	179.6	178.8
70°	10365.4	7609.1	406.6	199.6	167.0	159.6	170.0	169.3	167.8	170.8	170.0
72.5°	8304.6	5521.6	297.1	175.9	152.3	145.7	157.5	156.7	156.7	161.1	159.0
75°	4778.8	2841.4	237.3	150.8	136.8	131.5	141.9	142.7	144.1	150.0	145.7
77.5°	1362.4	885.5	193.7	127.9	117.6	115.3	125.6	127.2	127.9	134.5	128.6
80°	506.3	408.0	159.6	107.2	96.0	96.8	106.4	108.7	109.4	116.1	108.7
82.5°	323.0	269.1	129.4	82.8	75.4	74.7	86.6	89.5	89.5	90.1	85.8
85°	188.5	161.1	97.6	59.9	53.2	51.1	64.4	69.5	67.3	65.8	62.9
87.5°	126.4	110.9	59.9	33.3	28.9	27.4	37.7	41.4	39.9	37.7	35.5
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)