

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: P194412

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194412
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-SL2-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 15498 lumens
Efficiency: N/A
Efficacy: 120.1 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



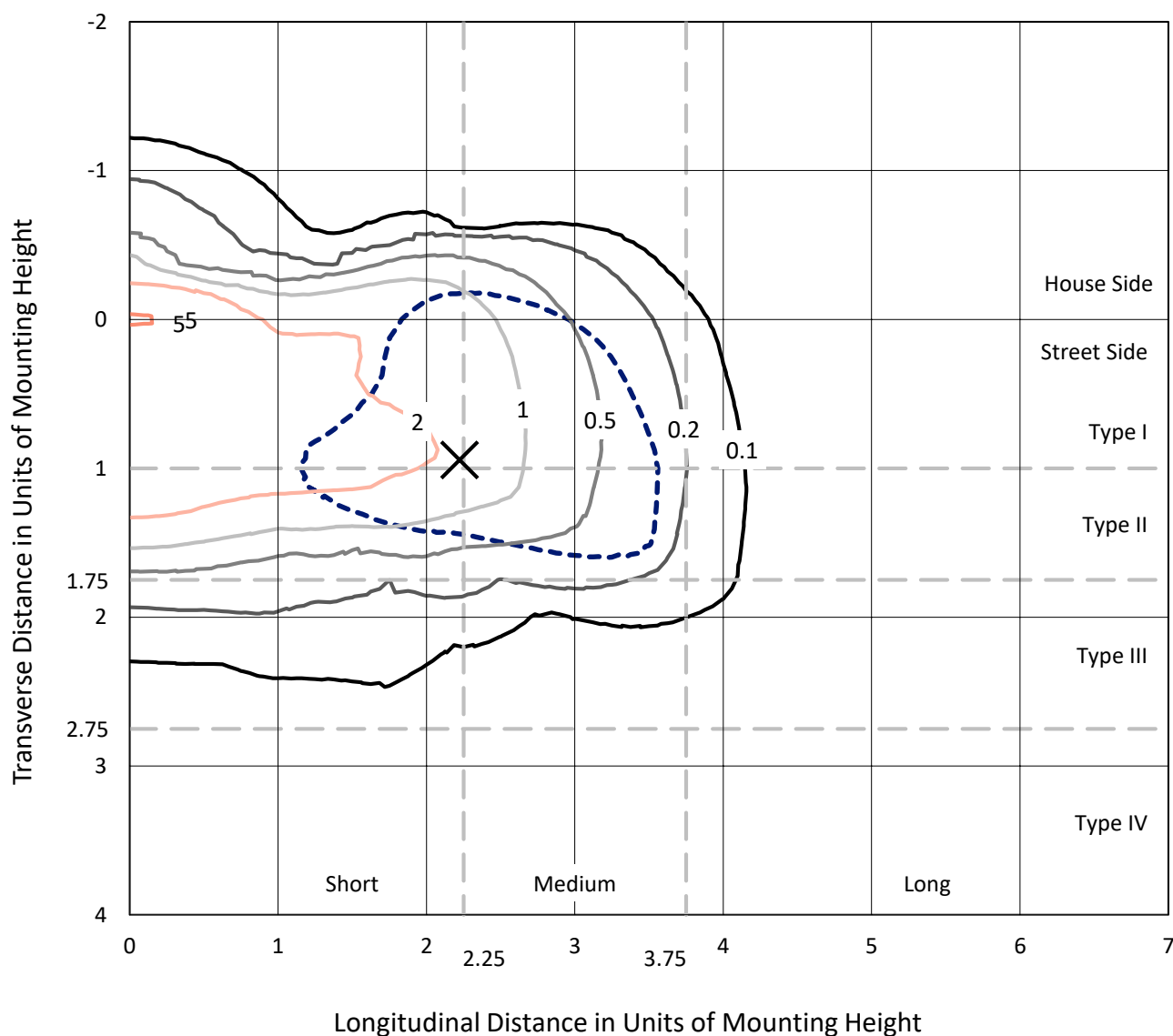
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

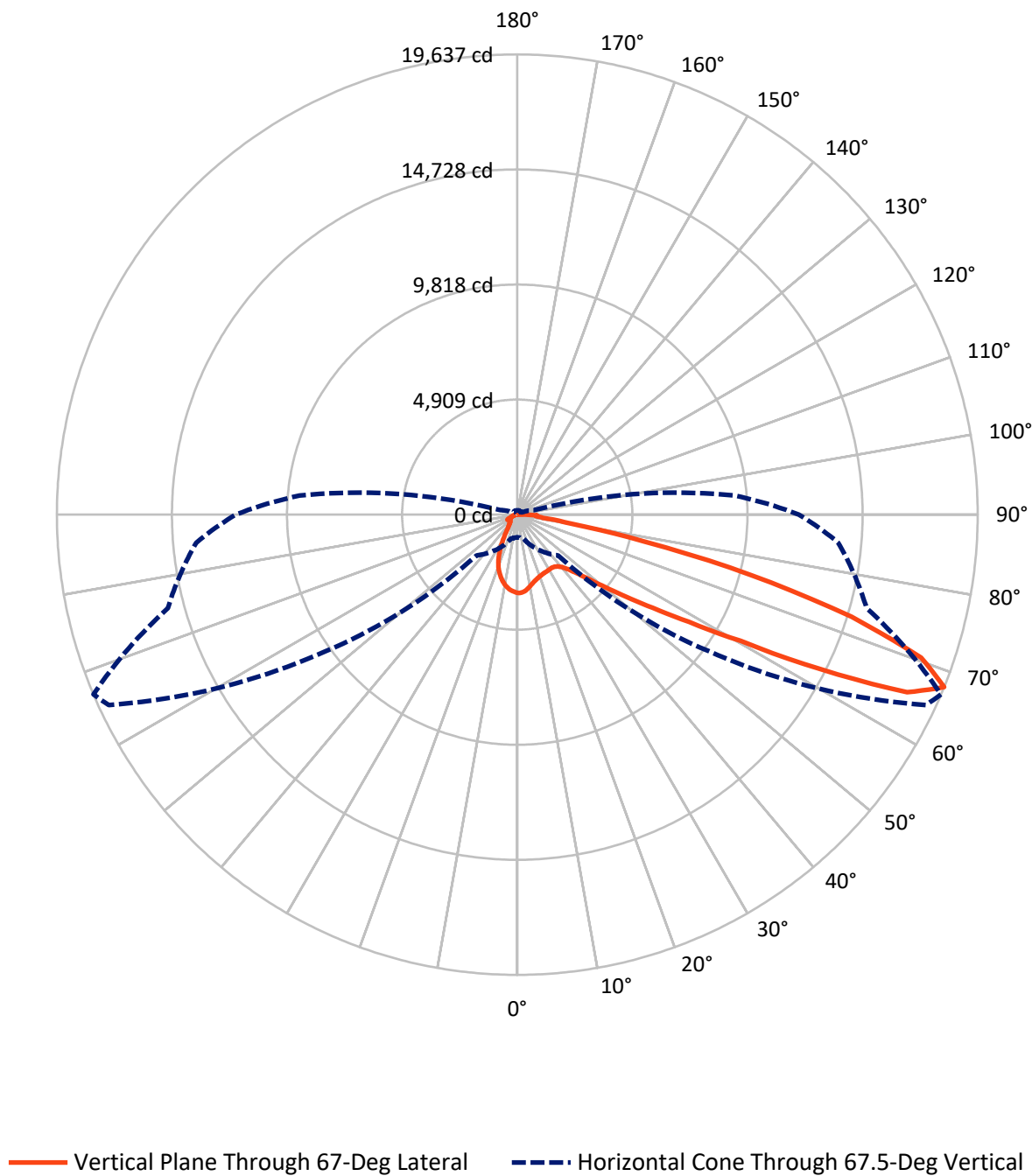


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2567.8	0.0	2567.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	12930.1	0.0	12930.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	15498.0	0.0	15498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.8
10°-20°	659.9	4.3
20°-30°	894.5	5.8
30°-40°	1271.6	8.2
40°-50°	2127.5	13.7
50°-60°	3365.7	21.7
60°-70°	4287.6	27.7
70°-80°	2245.8	14.5
80°-90°	360.2	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°	15498.0	100.0
0°-180°	15498.0	100.0

Coefficient of Utilization



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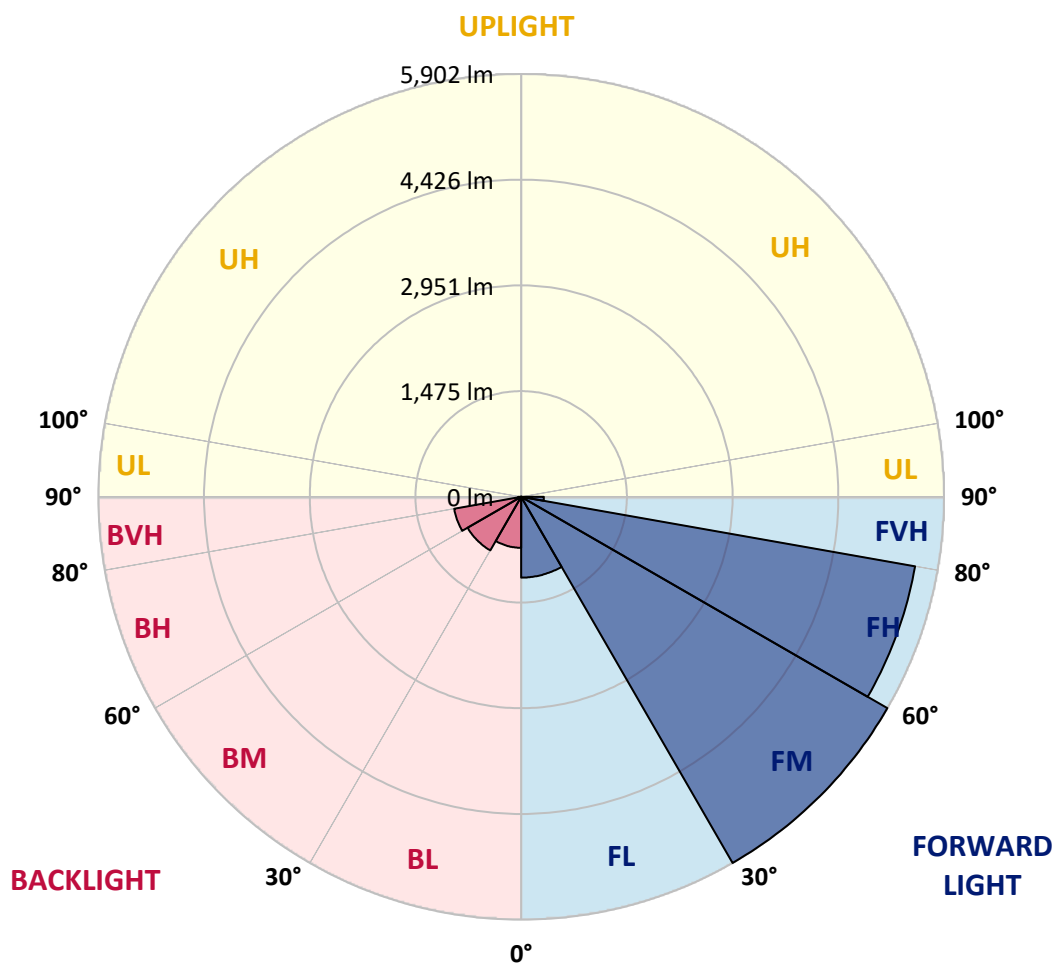
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1127.9	7.3			
FM	(30°-60°)	5902.0	38.1			
FH	(60°-80°)	5583.6	36.0			G3/7500
FVH	(80°-90°)	316.7	2.0			G3/500
BL	(0°-30°)	711.7	4.6	B2/1000		
BM	(30°-60°)	862.9	5.6	B1/1000		
BH	(60°-80°)	949.8	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°	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9
2.5°	3205.3	3210.7	3227.5	3238.2	3286.3	3307.0	3321.5	3336.0	3338.3	3345.2	3338.3
5°	2869.0	2880.5	2911.8	2947.0	3040.2	3113.6	3190.8	3271.0	3285.6	3337.5	3352.1
7.5°	2608.4	2605.4	2631.4	2673.4	2768.9	2870.6	3005.8	3165.6	3196.9	3313.8	3370.4
10°	2418.1	2415.8	2443.3	2486.9	2577.9	2674.2	2827.0	3045.6	3089.9	3276.4	3388.0
12.5°	2277.5	2278.3	2305.8	2353.9	2446.4	2543.5	2698.6	2929.4	2986.0	3232.8	3406.3
15°	2184.3	2190.4	2212.5	2263.7	2353.9	2451.0	2603.1	2842.3	2905.7	3198.4	3426.9
17.5°	2152.9	2162.9	2170.5	2208.0	2285.1	2382.2	2531.2	2778.1	2845.3	3174.7	3445.3
20°	2182.0	2193.4	2178.9	2191.9	2240.8	2326.4	2474.7	2727.6	2796.4	3148.0	3447.6
22.5°	2306.5	2317.2	2274.4	2237.0	2233.9	2285.9	2428.1	2687.9	2759.0	3128.1	3448.3
25°	2525.9	2532.8	2460.9	2373.8	2289.0	2271.4	2395.2	2660.4	2736.1	3110.5	3433.8
27.5°	2794.9	2800.3	2717.7	2589.3	2418.9	2305.8	2383.7	2644.3	2723.1	3095.3	3409.4
30°	3122.0	3147.2	3036.4	2874.4	2626.0	2407.4	2406.7	2635.9	2708.5	3069.3	3361.2
32.5°	3456.8	3467.5	3391.0	3226.7	2905.0	2586.3	2470.9	2642.1	2704.7	3037.9	3300.1
35°	3796.1	3809.8	3760.2	3628.0	3286.3	2848.4	2596.2	2678.0	2728.4	3027.2	3257.3
37.5°	4235.5	4253.9	4185.1	4032.2	3750.2	3203.8	2804.8	2768.2	2801.0	3057.8	3244.3
40°	4930.3	4921.8	4720.8	4493.1	4257.7	3658.5	3102.9	2921.0	2940.1	3156.4	3284.0
42.5°	5738.8	5718.2	5372.0	5014.3	4815.6	4208.8	3497.3	3186.2	3182.4	3350.5	3423.9
45°	6383.9	6367.1	6055.2	5614.3	5455.3	4835.5	4007.0	3581.3	3553.1	3658.5	3682.2
47.5°	6733.1	6733.9	6554.3	6194.3	6190.5	5631.8	4662.0	4153.0	4104.1	4153.8	4128.5
50°	6610.9	6626.9	6607.8	6493.2	6861.5	6675.8	5517.2	4950.1	4851.5	4900.4	4803.4
52.5°	6019.3	6040.0	6153.1	6328.9	7143.6	7937.6	6773.7	5940.6	5826.0	5808.4	5700.6
55°	4970.8	4996.0	5226.8	5704.4	6908.9	8785.2	8756.1	7203.2	7020.5	6854.7	6808.8
57.5°	3426.2	3468.2	3839.7	4548.9	6150.0	9041.2	11117.0	9003.0	8631.6	8052.3	8063.0
60°	1931.3	1980.2	2418.1	3062.4	4618.4	8763.0	12913.0	11729.1	10945.0	9454.7	9534.2
62.5°	1228.2	1280.9	1613.4	2127.7	2771.2	7265.1	13648.9	15519.1	14523.3	11183.4	11261.4
65°	994.3	1017.2	1173.9	1756.3	2012.3	4376.9	13090.3	18641.1	18269.7	13377.6	13013.8
67.5°	970.6	978.3	1059.3	1474.3	1929.8	2460.2	10441.3	19225.0	19636.9	15426.6	13743.7
70°	959.1	985.9	1193.8	1407.0	1848.0	2075.0	6274.6	17624.6	18275.0	15962.4	12772.3
72.5°	465.4	463.9	600.7	1272.5	2081.8	2152.2	3223.7	14260.4	14913.0	13829.3	10495.6
75°	375.3	343.2	327.9	466.2	2001.6	2222.5	2054.3	9812.4	10284.7	9272.0	6451.9
77.5°	356.1	317.9	291.2	291.9	846.0	2357.0	1740.2	5430.8	5568.4	4188.2	1767.7
80°	295.0	259.8	240.7	271.3	409.6	2244.6	1881.6	2457.9	2255.3	1028.7	588.5
82.5°	204.8	186.5	181.1	227.7	327.9	1599.6	2188.1	1320.6	1107.4	515.1	363.0
85°	130.7	111.6	123.8	165.8	255.3	738.3	2253.8	1029.5	818.5	327.1	204.8
87.5°	60.4	48.9	61.1	91.7	166.6	254.5	2144.5	1156.3	843.0	172.7	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°	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9	3342.9
2.5°	3344.4	3329.9	3318.4	3297.0	3273.3	3250.4	3229.8	3203.8	3196.1	3189.3	3200.0
5°	3355.1	3340.6	3298.6	3232.8	3160.2	3092.2	3024.2	2966.1	2930.2	2910.3	2921.8
7.5°	3371.2	3350.5	3263.4	3142.6	3012.0	2892.7	2769.7	2671.1	2598.5	2564.1	2574.0
10°	3385.7	3345.9	3203.8	3022.7	2831.6	2654.3	2460.2	2299.7	2180.4	2117.8	2133.1
12.5°	3391.8	3328.4	3120.5	2872.9	2610.7	2350.9	2065.0	1825.1	1653.9	1591.2	1578.2
15°	3397.9	3308.5	3028.8	2702.4	2344.0	1976.4	1575.9	1288.5	1146.4	1115.1	1108.2
17.5°	3399.4	3274.1	2924.8	2517.5	2031.4	1530.8	1077.6	895.0	895.7	946.2	952.3
20°	3383.4	3222.9	2798.7	2287.4	1656.9	1058.5	739.8	708.5	823.9	950.0	965.3
22.5°	3346.7	3154.9	2655.8	2019.2	1228.2	697.0	572.4	606.8	755.9	910.2	927.8
25°	3300.1	3072.3	2486.9	1708.1	813.2	498.3	480.0	522.0	622.9	726.0	736.0
27.5°	3236.6	2974.5	2297.4	1352.0	528.1	410.4	422.6	450.9	492.2	538.0	542.6
30°	3154.9	2857.6	2094.8	985.9	398.9	369.1	386.7	402.0	419.6	445.6	447.9
32.5°	3060.9	2745.2	1887.0	681.0	353.9	347.7	361.5	369.1	382.9	398.9	400.5
35°	2982.1	2638.2	1671.4	481.5	334.7	331.7	340.9	343.9	356.9	374.5	376.0
37.5°	2937.1	2551.1	1449.0	388.2	321.8	317.2	322.5	322.5	340.9	366.8	370.7
40°	2940.1	2503.0	1226.6	350.8	311.1	304.9	305.7	305.7	329.4	357.7	360.0
42.5°	3023.4	2515.2	1029.5	336.3	302.6	295.8	291.9	294.2	314.1	332.5	334.0
45°	3219.1	2601.5	844.5	327.1	294.2	291.9	283.5	282.8	290.4	298.8	298.8
47.5°	3540.1	2772.0	719.2	321.0	287.4	286.6	276.7	266.7	266.0	269.0	269.0
50°	4062.1	3065.5	635.1	314.1	282.8	276.7	265.2	249.9	244.6	246.9	246.9
52.5°	4844.7	3589.0	603.0	304.9	272.8	262.9	249.9	234.6	230.0	230.8	230.8
55°	5871.1	4393.0	598.4	294.2	262.1	246.1	235.4	223.9	218.6	220.1	220.1
57.5°	7125.2	5505.0	680.2	277.4	247.6	229.3	223.2	215.5	211.7	214.0	213.2
60°	8649.9	6960.1	1008.8	259.8	233.1	214.0	214.0	207.9	204.8	207.1	206.4
62.5°	10406.2	8631.6	1418.5	246.9	217.8	201.8	204.8	201.8	198.7	200.2	199.5
65°	11963.8	9720.6	1328.3	236.9	202.5	190.3	195.7	194.1	191.8	193.4	192.6
67.5°	12008.8	9317.1	745.9	226.2	188.0	178.8	186.5	185.7	184.2	185.7	185.0
70°	10717.2	7867.3	420.3	206.4	172.7	165.1	175.8	175.0	173.5	176.5	175.8
72.5°	8586.5	5709.0	307.2	181.9	157.4	150.6	162.8	162.0	162.0	166.6	164.3
75°	4941.0	2937.8	245.3	155.9	141.4	136.0	146.7	147.5	149.0	155.1	150.6
77.5°	1408.5	915.6	200.2	132.2	121.5	119.2	129.9	131.5	132.2	139.1	133.0
80°	523.5	421.9	165.1	110.8	99.4	100.1	110.1	112.3	113.1	120.0	112.3
82.5°	334.0	278.2	133.7	85.6	78.0	77.2	89.4	92.5	92.5	93.2	88.7
85°	194.9	166.6	100.9	61.9	55.0	52.7	66.5	71.8	69.5	68.0	65.0
87.5°	130.7	114.6	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)