

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: P192892

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15301.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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



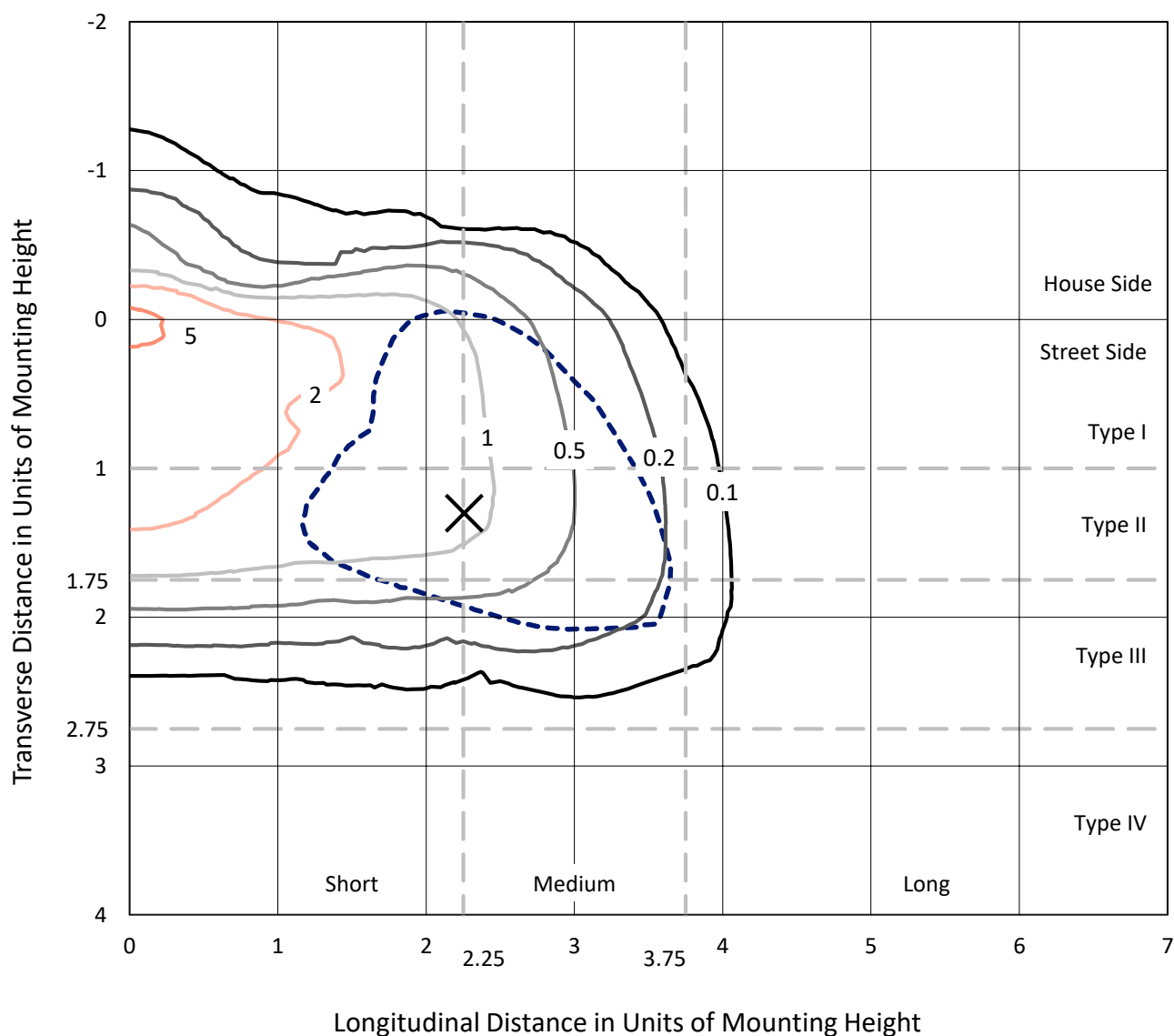
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

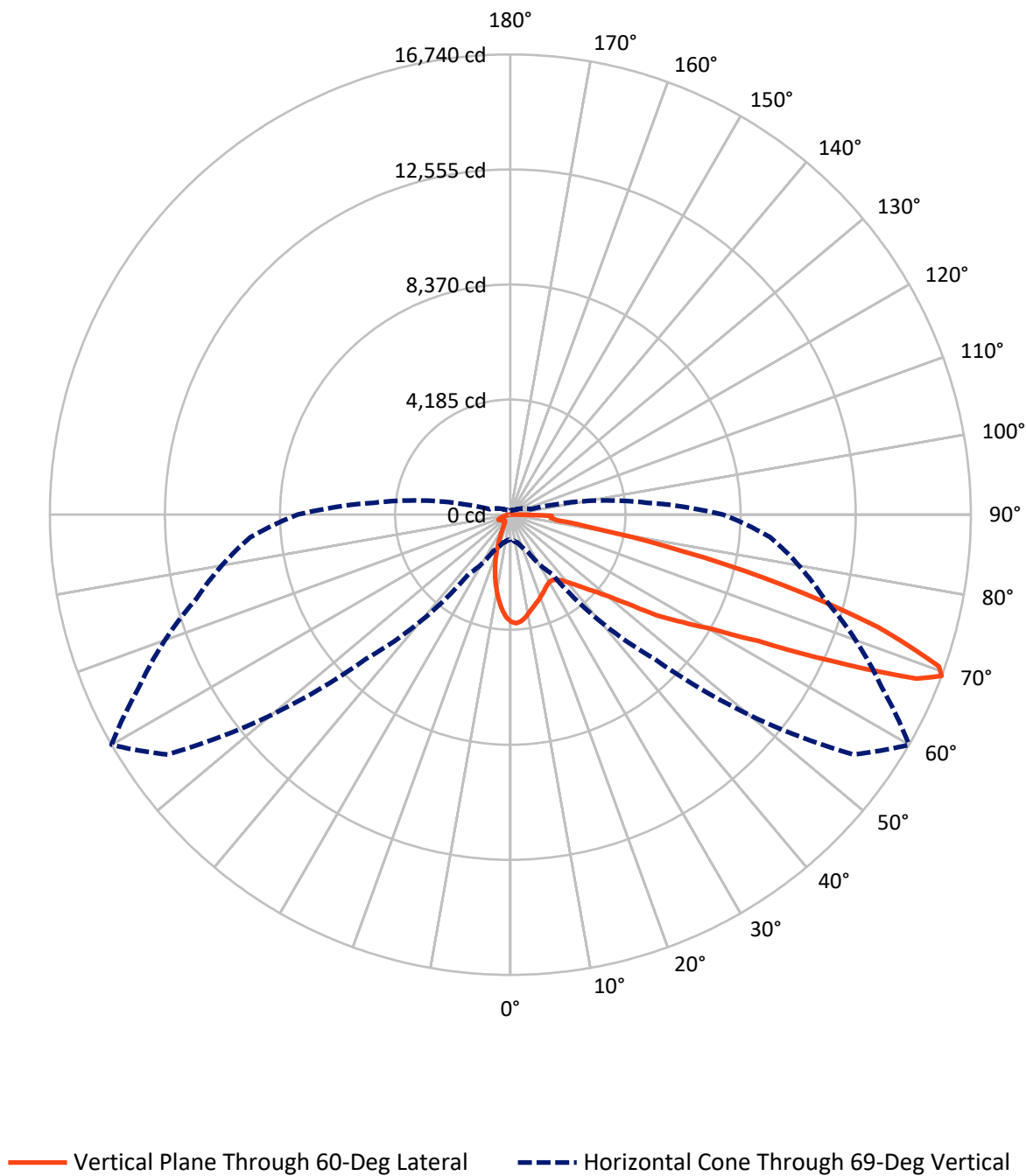


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2177.0	0.0	2177.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13124.8	0.0	13124.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	15301.8	0.0	15301.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	2.2
10°-20°	702.4	4.6
20°-30°	895.0	5.8
30°-40°	1230.4	8.0
40°-50°	1996.4	13.0
50°-60°	3201.8	20.9
60°-70°	4261.3	27.8
70°-80°	2300.8	15.0
80°-90°	383.9	2.5
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°	15301.8	100.0
0°-180°	15301.8	100.0

Coefficient of Utilization



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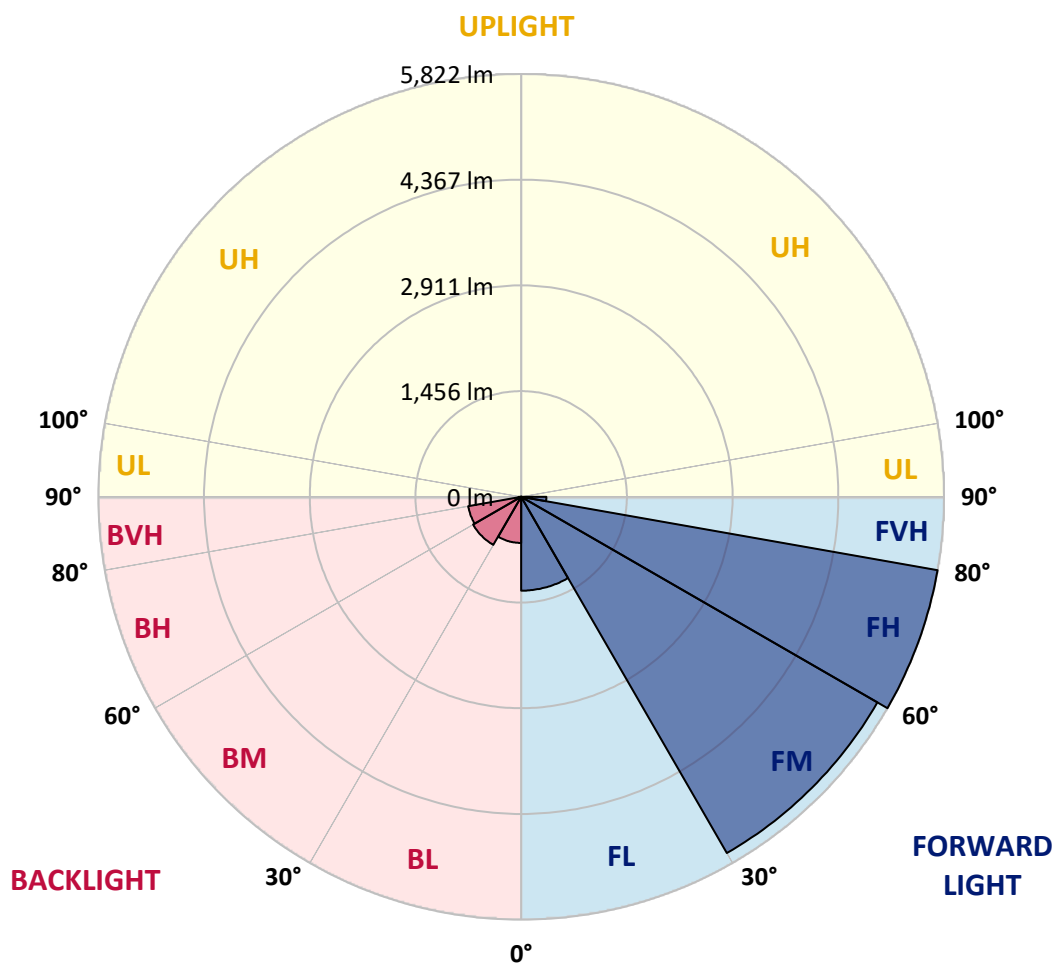
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.0	8.4			
FM	(30°-60°)	5663.8	37.0			
FH	(60°-80°)	5822.0	38.0			G3/7500
FVH	(80°-90°)	346.9	2.3			G3/500
BL	(0°-30°)	635.1	4.2	B2/1000		
BM	(30°-60°)	764.8	5.0	B1/1000		
BH	(60°-80°)	740.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	37.0	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1
2.5°	3979.0	3987.9	3984.1	3982.0	3988.5	3978.2	3956.9	3950.2	3939.8	3915.5	3874.0
5°	3829.6	3856.2	3854.7	3874.8	3907.9	3916.8	3907.2	3908.7	3889.5	3859.2	3790.4
7.5°	3571.6	3582.7	3588.6	3632.4	3692.9	3741.7	3783.1	3796.3	3787.5	3761.7	3673.0
10°	3305.5	3314.5	3328.5	3379.5	3456.3	3523.6	3602.0	3647.1	3666.3	3661.9	3562.8
12.5°	3077.2	3086.0	3104.5	3162.2	3253.8	3336.6	3450.4	3506.6	3552.4	3579.8	3473.4
15°	2872.4	2891.6	2909.3	2975.9	3078.6	3187.3	3315.9	3386.9	3457.8	3519.2	3394.2
17.5°	2712.8	2731.9	2742.3	2802.9	2912.3	3045.4	3196.2	3279.8	3368.4	3468.9	3315.9
20°	2620.4	2629.3	2624.9	2658.9	2757.1	2898.3	3077.2	3174.0	3281.2	3421.6	3237.6
22.5°	2594.5	2595.2	2578.9	2575.2	2638.8	2757.8	2950.0	3067.6	3199.1	3390.6	3170.2
25°	2657.3	2655.1	2610.8	2574.4	2581.1	2650.6	2827.3	2964.1	3130.4	3383.9	3118.6
27.5°	2797.0	2803.7	2737.9	2669.9	2602.7	2600.4	2734.2	2878.3	3074.2	3414.3	3096.4
30°	2992.9	3004.0	2933.7	2847.3	2720.9	2616.6	2697.9	2827.3	3039.5	3477.0	3092.7
32.5°	3207.3	3219.1	3165.9	3075.0	2909.3	2717.2	2723.1	2831.8	3038.0	3565.0	3117.8
35°	3435.6	3449.0	3421.6	3344.8	3160.7	2902.7	2819.2	2903.4	3086.0	3699.5	3185.1
37.5°	3690.7	3711.3	3718.7	3645.6	3449.0	3147.4	2976.7	3039.5	3194.7	3886.6	3308.5
40°	4058.0	4086.9	4084.6	3979.7	3779.4	3477.8	3219.9	3236.0	3364.0	4136.4	3505.9
42.5°	4761.7	4767.6	4583.7	4355.2	4143.0	3825.1	3506.6	3493.3	3597.6	4452.8	3796.3
45°	5656.9	5632.5	5222.9	4781.7	4523.0	4224.4	3879.9	3814.9	3894.0	4838.6	4160.0
47.5°	6399.8	6343.6	5826.1	5217.0	4925.1	4658.3	4318.3	4204.4	4248.0	5276.2	4630.2
50°	6657.7	6615.5	6186.8	5579.3	5305.7	5187.5	4857.7	4696.7	4708.5	5798.1	5180.8
52.5°	6602.3	6596.3	6310.3	5818.0	5662.1	5743.3	5622.2	5404.1	5288.8	6377.6	5775.1
55°	6471.4	6484.0	6380.5	6095.9	6069.4	6280.0	6620.8	6459.6	6101.1	6962.2	6389.4
57.5°	6016.8	6049.3	6277.1	6445.5	6725.0	7038.4	7424.9	7379.2	6975.5	7594.3	7119.7
60°	4847.5	4922.9	5533.4	6377.6	7399.8	8379.9	8553.0	8446.5	7877.4	8378.4	8084.3
62.5°	3396.5	3474.9	4200.7	5521.6	7288.9	9895.3	10569.4	10110.5	9172.4	9533.9	9332.7
65°	1818.4	1856.1	2410.5	3831.0	6153.6	10208.0	13516.5	12818.0	11222.8	10958.1	10400.8
67.5°	1003.0	1023.8	1235.9	1934.4	3941.2	8989.1	15394.0	15921.7	13785.6	11906.5	10206.5
69°	907.0	926.2	1065.2	1465.0	2637.4	7432.4	15210.6	16739.9	14909.1	11812.7	9488.0
70°	886.9	904.7	1029.7	1350.5	2134.7	6126.2	14596.4	16530.8	15176.6	11476.4	8861.2
72.5°	798.3	817.5	938.7	1213.0	1824.3	3054.3	11562.2	13977.0	13778.9	9950.7	6721.3
75°	744.4	762.1	967.6	1187.8	1746.6	1932.9	7622.4	10301.1	10128.9	6960.8	3624.1
77.5°	318.6	317.1	448.7	1005.3	1772.5	1871.6	4095.7	6435.3	5871.3	2975.1	1040.8
80°	212.8	209.2	212.8	295.6	1625.4	1881.9	2145.9	3266.5	2467.4	758.4	513.0
82.5°	183.3	180.4	187.1	180.4	571.4	2148.0	1824.3	1737.0	1173.1	430.9	254.2
85°	123.5	118.2	161.1	161.9	269.8	1908.5	2054.8	1467.3	949.1	255.7	125.6
87.5°	59.1	57.7	93.9	114.6	158.2	775.4	2305.5	1503.5	957.2	130.8	59.9
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°	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1	3899.1
2.5°	3861.4	3831.0	3801.5	3766.0	3729.1	3687.7	3667.1	3646.3	3641.2	3635.3	3614.6
5°	3755.0	3712.1	3638.3	3556.9	3471.1	3387.6	3324.0	3284.2	3253.8	3238.3	3210.9
7.5°	3617.5	3554.6	3425.3	3284.9	3140.7	3009.1	2895.4	2823.6	2755.6	2723.9	2687.7
10°	3486.7	3392.8	3191.7	2984.8	2777.8	2578.9	2391.9	2259.6	2142.1	2076.4	2029.7
12.5°	3374.4	3245.6	2967.1	2686.9	2403.0	2119.9	1839.8	1619.5	1435.4	1338.7	1289.1
15°	3264.8	3109.7	2753.5	2397.9	2033.5	1648.4	1280.2	1030.5	878.1	817.5	796.8
17.5°	3165.9	2967.1	2539.0	2106.6	1652.0	1186.3	860.4	722.9	664.6	644.5	637.8
20°	3058.7	2822.9	2316.6	1802.1	1254.4	829.4	672.0	611.3	587.6	581.7	578.7
22.5°	2955.3	2681.0	2103.7	1476.1	901.1	640.1	577.3	552.2	548.5	553.6	553.6
25°	2867.3	2553.8	1873.8	1135.3	661.6	538.8	516.7	510.8	524.8	544.0	547.7
27.5°	2801.4	2449.6	1629.2	838.2	527.0	468.6	467.8	477.5	512.2	549.2	556.5
30°	2756.4	2350.6	1367.5	604.6	442.1	412.5	424.3	445.0	496.0	548.5	562.4
32.5°	2733.4	2277.4	1094.7	467.8	378.5	362.2	382.2	407.3	457.6	506.3	524.8
35°	2751.1	2223.4	837.5	390.3	334.2	321.6	342.2	366.7	396.2	417.0	430.9
37.5°	2817.7	2202.0	631.9	349.6	303.8	291.9	308.2	322.4	334.2	340.1	346.7
40°	2961.2	2224.9	506.3	329.0	286.8	272.0	278.7	283.8	291.2	297.1	300.1
42.5°	3172.6	2293.7	453.9	320.7	277.9	256.5	255.0	257.2	266.8	277.9	280.1
45°	3468.2	2414.8	450.1	325.9	273.4	243.9	237.3	240.3	255.0	272.0	275.0
47.5°	3845.9	2599.6	479.7	341.6	277.2	237.3	226.1	229.9	248.3	271.3	275.0
50°	4303.4	2857.6	529.3	364.4	293.5	238.7	222.5	224.7	243.9	269.1	272.7
52.5°	4843.8	3223.4	583.2	386.6	310.4	248.3	225.4	220.2	237.9	260.1	264.6
55°	5444.7	3692.9	638.6	406.6	319.4	260.1	231.4	214.3	226.9	245.4	249.1
57.5°	6182.4	4349.3	734.8	425.8	325.3	268.3	237.3	208.4	212.8	226.1	229.1
60°	7181.1	5277.7	904.0	457.6	338.4	271.3	236.5	203.2	198.9	206.3	207.7
62.5°	8377.8	6285.9	1045.2	497.4	360.7	273.4	232.0	199.6	187.1	187.1	188.5
65°	9088.0	6555.7	966.8	530.7	379.2	271.3	226.9	195.9	178.1	170.0	170.8
67.5°	8485.6	5765.5	828.6	537.3	378.5	260.9	218.8	189.2	169.3	156.7	155.9
69°	7730.9	4974.6	766.6	519.6	360.7	247.6	208.4	181.8	162.6	149.3	148.6
70°	7122.6	4491.9	725.9	500.4	341.6	237.9	200.3	175.2	157.5	144.9	143.3
72.5°	5178.7	2943.3	620.1	430.2	281.7	199.6	172.9	153.7	140.4	133.1	131.5
75°	2587.8	1403.7	503.3	348.9	215.8	159.6	141.9	128.6	122.0	120.5	119.7
77.5°	850.0	643.1	360.0	260.1	160.4	124.9	114.6	105.0	103.5	107.9	106.4
80°	467.2	374.0	228.4	172.2	109.4	91.7	90.1	85.0	87.2	94.6	93.1
82.5°	237.9	194.4	141.2	103.5	74.0	65.8	71.7	68.8	71.7	78.3	77.6
85°	117.6	106.4	89.5	62.9	48.8	42.2	51.1	53.2	54.7	59.9	59.9
87.5°	68.0	62.9	47.3	29.6	24.4	22.2	29.6	28.9	34.0	36.9	36.2
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)