

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: P194421

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194421
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-03-LED-E1-SL2-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 14383 lumens
Efficiency: N/A
Efficacy: 116.0 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): 124
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

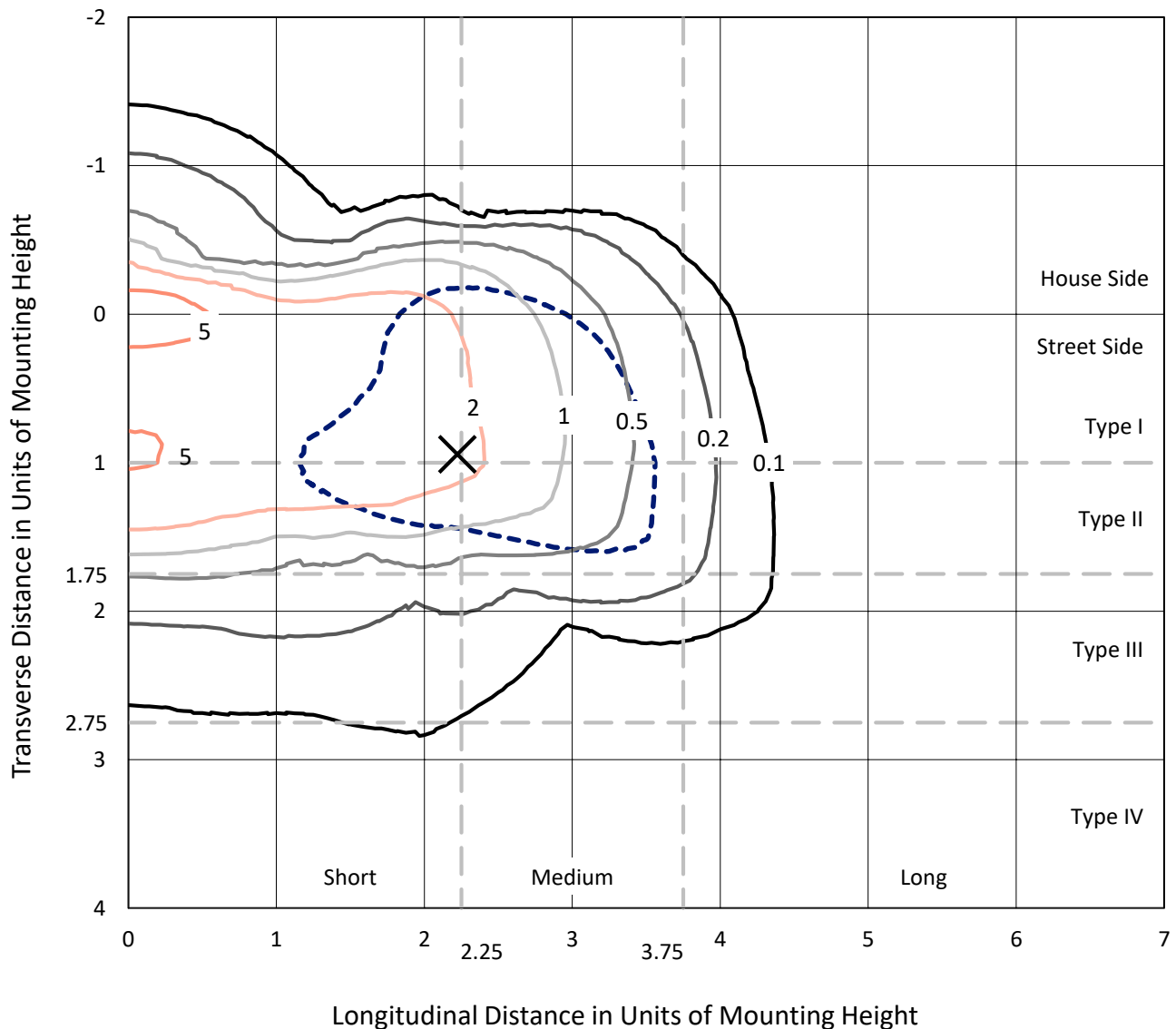


REPORT NUMBER: P194421

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7060-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

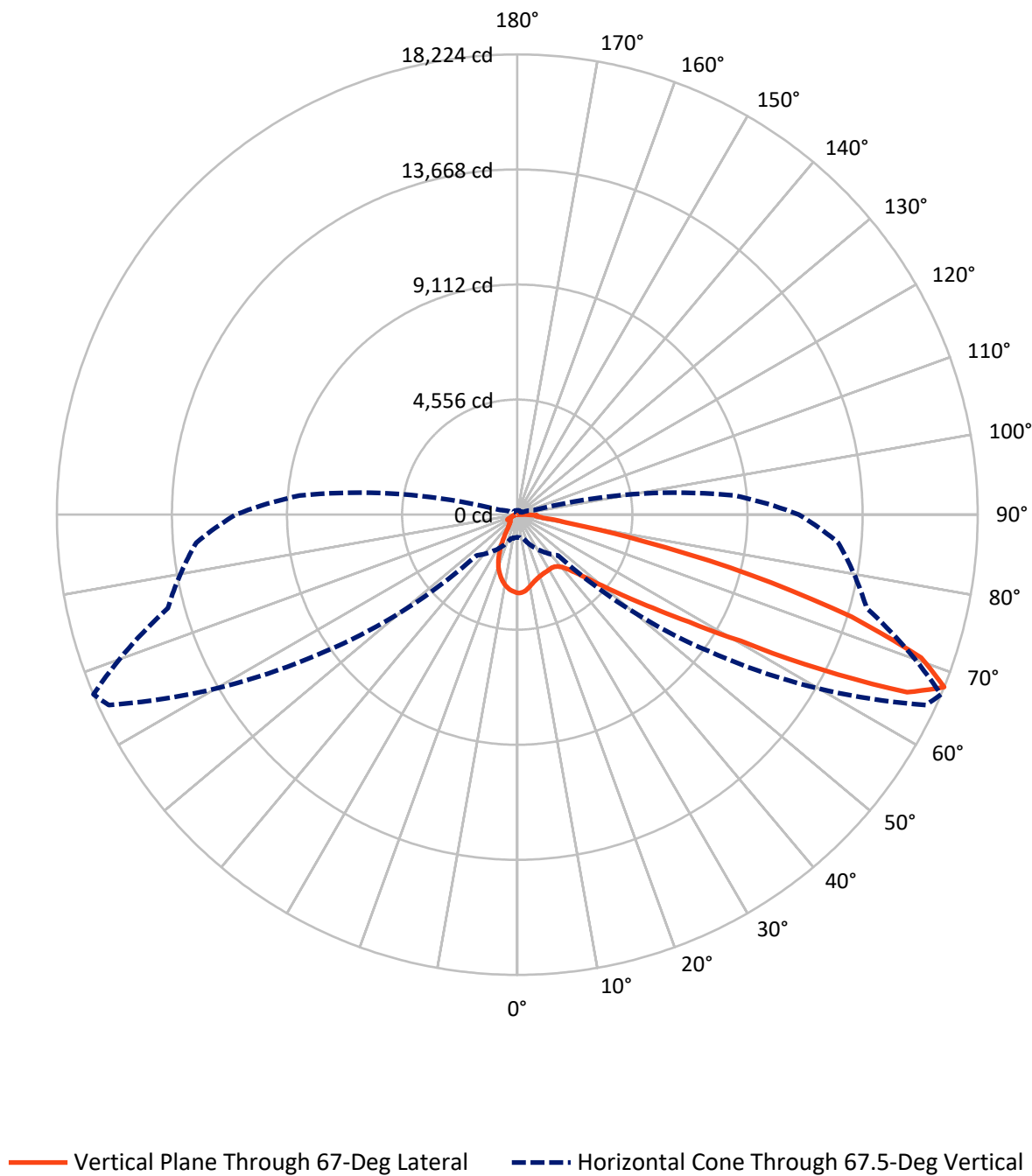


Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P194421

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7060-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.1	0.0	2383.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	11999.9	0.0	11999.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	14383.0	0.0	14383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.8
10°-20°	612.4	4.3
20°-30°	830.2	5.8
30°-40°	1180.1	8.2
40°-50°	1974.4	13.7
50°-60°	3123.5	21.7
60°-70°	3979.1	27.7
70°-80°	2084.2	14.5
80°-90°	334.3	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°	14383.0	100.0
0°-180°	14383.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194421

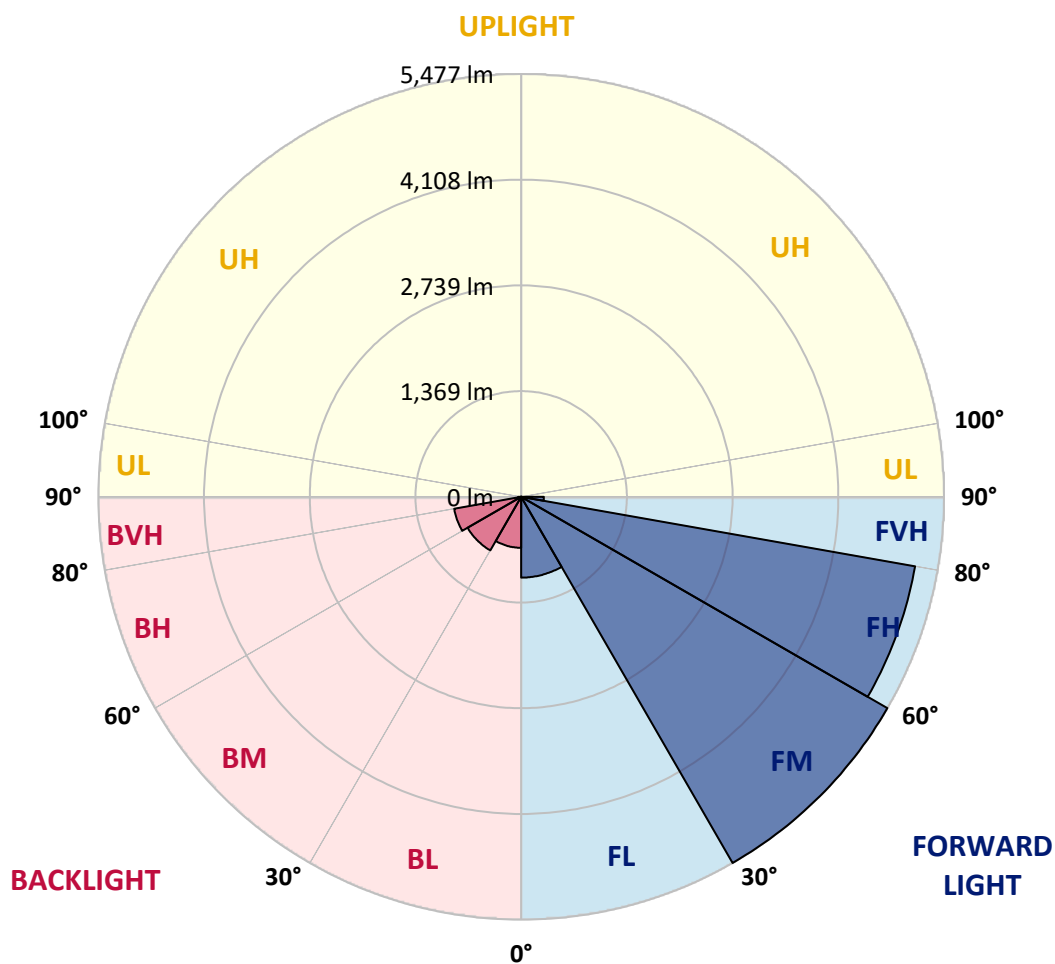
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.7	7.3			
FM	(30°-60°)	5477.3	38.1			
FH	(60°-80°)	5181.9	36.0			G3/7500
FVH	(80°-90°)	293.9	2.0			G3/500
BL	(0°-30°)	660.5	4.6	B2/1000		
BM	(30°-60°)	800.8	5.6	B1/1000		
BH	(60°-80°)	881.4	6.1	B2/1000		G2/1000
BVH	(80°-90°)	40.3	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



REPORT NUMBER: P194421

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4
2.5°	2974.7	2979.7	2995.3	3005.2	3049.9	3069.0	3082.5	3096.0	3098.1	3104.5	3098.1
5°	2662.6	2673.3	2702.3	2735.0	2821.5	2889.6	2961.2	3035.7	3049.2	3097.4	3110.9
7.5°	2420.8	2417.9	2442.0	2481.1	2569.7	2664.0	2789.6	2937.8	2966.9	3075.4	3127.9
10°	2244.2	2242.0	2267.6	2308.0	2392.4	2481.8	2623.6	2826.5	2867.6	3040.7	3144.2
12.5°	2113.6	2114.4	2139.9	2184.6	2270.4	2360.5	2504.5	2718.7	2771.1	3000.2	3161.2
15°	2027.1	2032.8	2053.4	2100.9	2184.6	2274.7	2415.8	2637.8	2696.7	2968.3	3180.4
17.5°	1998.0	2007.3	2014.3	2049.1	2120.7	2210.8	2349.1	2578.2	2640.6	2946.3	3197.4
20°	2025.0	2035.6	2022.1	2034.2	2079.6	2159.0	2296.6	2531.4	2595.2	2921.5	3199.5
22.5°	2140.6	2150.5	2110.8	2076.1	2073.2	2121.4	2253.4	2494.5	2560.5	2903.1	3200.3
25°	2344.2	2350.5	2283.9	2203.0	2124.3	2108.0	2222.9	2469.0	2539.2	2886.8	3186.8
27.5°	2593.8	2598.8	2522.2	2403.0	2244.9	2139.9	2212.2	2454.1	2527.2	2872.6	3164.1
30°	2897.4	2920.8	2818.0	2667.6	2437.1	2234.2	2233.5	2446.3	2513.7	2848.5	3119.4
32.5°	3208.1	3218.0	3147.1	2994.6	2696.0	2400.2	2293.1	2452.0	2510.1	2819.4	3062.7
35°	3523.0	3535.7	3489.6	3366.9	3049.9	2643.5	2409.4	2485.3	2532.1	2809.4	3022.9
37.5°	3930.8	3947.8	3884.0	3742.1	3480.4	2973.3	2603.0	2569.0	2599.5	2837.8	3010.9
40°	4575.5	4567.7	4381.2	4169.8	3951.4	3395.3	2879.7	2710.9	2728.6	2929.3	3047.8
42.5°	5326.0	5306.8	4985.5	4653.6	4469.2	3906.0	3245.7	2957.0	2953.4	3109.5	3177.6
45°	5924.6	5909.0	5619.6	5210.3	5062.8	4487.6	3718.7	3323.7	3297.4	3395.3	3417.3
47.5°	6248.7	6249.4	6082.8	5748.7	5745.1	5226.7	4326.6	3854.2	3808.8	3854.9	3831.5
50°	6135.2	6150.1	6132.4	6026.0	6367.9	6195.5	5120.3	4594.0	4502.5	4547.9	4457.8
52.5°	5586.3	5605.4	5710.4	5873.5	6629.6	7366.6	6286.3	5513.2	5406.8	5390.5	5290.5
55°	4613.1	4636.5	4850.7	5294.0	6411.9	8153.1	8126.2	6684.9	6515.4	6361.5	6318.9
57.5°	3179.7	3218.7	3563.4	4221.6	5707.6	8390.7	10317.1	8355.3	8010.6	7472.9	7482.9
60°	1792.3	1837.7	2244.2	2842.1	4286.2	8132.6	11983.9	10885.3	10157.6	8774.5	8848.2
62.5°	1139.8	1188.7	1497.3	1974.6	2571.8	6742.4	12667.0	14402.6	13478.4	10378.9	10451.2
65°	922.8	944.0	1089.4	1629.9	1867.5	4062.0	12148.5	17300.0	16955.3	12415.2	12077.6
67.5°	900.8	907.9	983.1	1368.2	1790.9	2283.2	9690.1	17841.9	18224.2	14316.8	12754.9
70°	890.1	915.0	1107.9	1305.8	1715.0	1925.7	5823.2	16356.6	16960.2	14814.0	11853.4
72.5°	431.9	430.5	557.5	1180.9	1932.1	1997.3	2991.7	13234.4	13840.1	12834.4	9740.5
75°	348.3	318.5	304.3	432.7	1857.6	2062.6	1906.5	9106.4	9544.7	8604.9	5987.7
77.5°	330.5	295.1	270.2	270.9	785.2	2187.4	1615.0	5040.1	5167.8	3886.8	1640.6
80°	273.8	241.2	223.4	251.8	380.2	2083.1	1746.2	2281.0	2093.1	954.7	546.1
82.5°	190.1	173.1	168.1	211.4	304.3	1484.5	2030.7	1225.6	1027.7	478.1	336.9
85°	121.3	103.6	114.9	153.9	236.9	685.2	2091.7	955.4	759.6	303.6	190.1
87.5°	56.0	45.4	56.7	85.1	154.6	236.2	1990.2	1073.1	782.3	160.3	119.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P194421

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL2-7060-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4	3102.4
2.5°	3103.8	3090.3	3079.7	3059.8	3037.8	3016.6	2997.4	2973.3	2966.2	2959.8	2969.7
5°	3113.7	3100.3	3061.2	3000.2	2932.9	2869.7	2806.6	2752.7	2719.4	2700.9	2711.6
7.5°	3128.6	3109.5	3028.6	2916.5	2795.3	2684.6	2570.4	2478.9	2411.5	2379.6	2388.8
10°	3142.1	3105.2	2973.3	2805.2	2627.9	2463.3	2283.2	2134.2	2023.6	1965.4	1979.6
12.5°	3147.8	3088.9	2896.0	2666.2	2422.9	2181.7	1916.5	1693.8	1534.9	1476.7	1464.7
15°	3153.4	3070.5	2810.9	2508.0	2175.4	1834.2	1462.5	1195.8	1063.9	1034.8	1028.5
17.5°	3154.9	3038.5	2714.4	2336.4	1885.3	1420.7	1000.1	830.6	831.3	878.1	883.8
20°	3140.0	2991.0	2597.4	2122.9	1537.7	982.3	686.6	657.5	764.6	881.6	895.8
22.5°	3105.9	2927.9	2464.7	1873.9	1139.8	646.9	531.2	563.2	701.5	844.7	861.1
25°	3062.7	2851.3	2308.0	1585.2	754.7	462.4	445.4	484.4	578.1	673.8	683.0
27.5°	3003.8	2760.5	2132.1	1254.7	490.1	380.9	392.2	418.5	456.8	499.3	503.6
30°	2927.9	2652.0	1944.1	915.0	370.2	342.6	358.9	373.1	389.4	413.5	415.6
32.5°	2840.7	2547.7	1751.2	632.0	328.4	322.7	335.5	342.6	355.3	370.2	371.7
35°	2767.6	2448.4	1551.2	446.8	310.7	307.8	316.3	319.2	331.2	347.5	349.0
37.5°	2725.8	2367.6	1344.8	360.3	298.6	294.3	299.3	299.3	316.3	340.5	344.0
40°	2728.6	2322.9	1138.4	325.6	288.7	283.0	283.7	283.7	305.7	331.9	334.1
42.5°	2805.9	2334.2	955.4	312.1	280.9	274.5	270.9	273.1	291.5	308.5	310.0
45°	2987.5	2414.4	783.8	303.6	273.1	270.9	263.1	262.4	269.5	277.3	277.3
47.5°	3285.4	2572.5	667.4	297.9	266.7	266.0	256.8	247.5	246.8	249.7	249.7
50°	3769.8	2844.9	589.4	291.5	262.4	256.8	246.1	231.9	227.0	229.1	229.1
52.5°	4496.1	3330.8	559.6	283.0	253.2	244.0	231.9	217.7	213.5	214.2	214.2
55°	5448.7	4076.9	555.4	273.1	243.3	228.4	218.5	207.8	202.9	204.3	204.3
57.5°	6612.6	5108.9	631.3	257.5	229.8	212.8	207.1	200.0	196.5	198.6	197.9
60°	8027.6	6459.4	936.2	241.2	216.3	198.6	198.6	192.9	190.1	192.2	191.5
62.5°	9657.5	8010.6	1316.4	229.1	202.1	187.2	190.1	187.2	184.4	185.8	185.1
65°	11103.0	9021.3	1232.7	219.9	188.0	176.6	181.6	180.2	178.0	179.4	178.7
67.5°	11144.9	8646.8	692.3	209.9	174.5	166.0	173.1	172.4	170.9	172.4	171.6
70°	9946.2	7301.3	390.1	191.5	160.3	153.2	163.1	162.4	161.0	163.8	163.1
72.5°	7968.7	5298.3	285.1	168.8	146.1	139.7	151.1	150.4	150.4	154.6	152.5
75°	4585.5	2726.5	227.7	144.7	131.2	126.3	136.2	136.9	138.3	144.0	139.7
77.5°	1307.2	849.7	185.8	122.7	112.8	110.6	120.6	122.0	122.7	129.1	123.4
80°	485.9	391.5	153.2	102.8	92.2	92.9	102.1	104.3	105.0	111.4	104.3
82.5°	310.0	258.2	124.1	79.4	72.3	71.6	83.0	85.8	85.8	86.5	82.3
85°	180.9	154.6	93.6	57.5	51.1	48.9	61.7	66.7	64.5	63.1	60.3
87.5°	121.3	106.4	57.5	31.9	27.7	26.2	36.2	39.7	38.3	36.2	34.0
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)