

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: P192821

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192821
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-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 13910.9 lumens
Efficiency: N/A
Efficacy: 112.2 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): 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



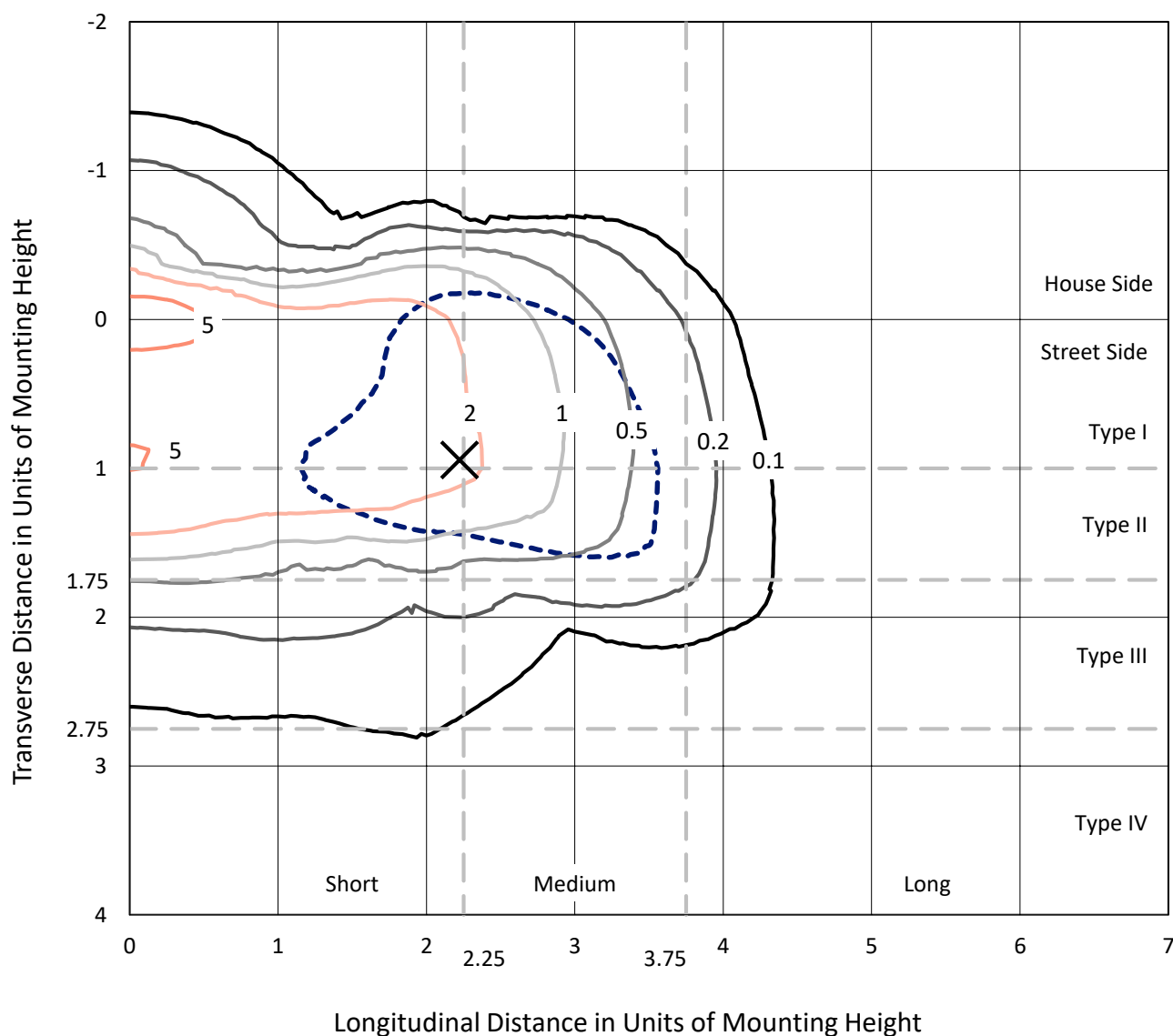
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

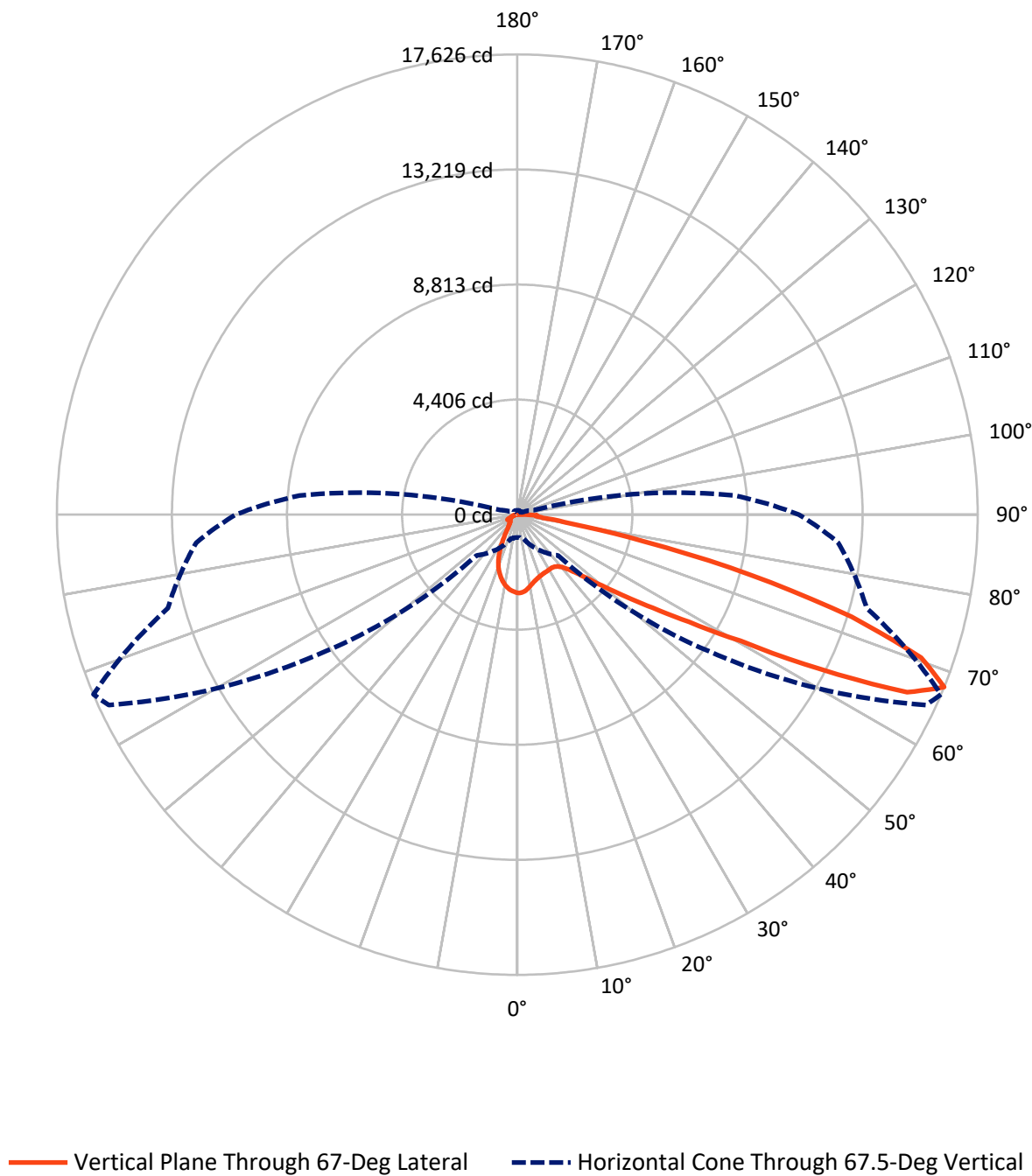


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2304.9	0.0	2304.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	11606.0	0.0	11606.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	13910.9	0.0	13910.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.8
10°-20°	592.3	4.3
20°-30°	802.9	5.8
30°-40°	1141.4	8.2
40°-50°	1909.6	13.7
50°-60°	3021.0	21.7
60°-70°	3848.5	27.7
70°-80°	2015.8	14.5
80°-90°	323.3	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°	13910.9	100.0
0°-180°	13910.9	100.0

Coefficient of Utilization



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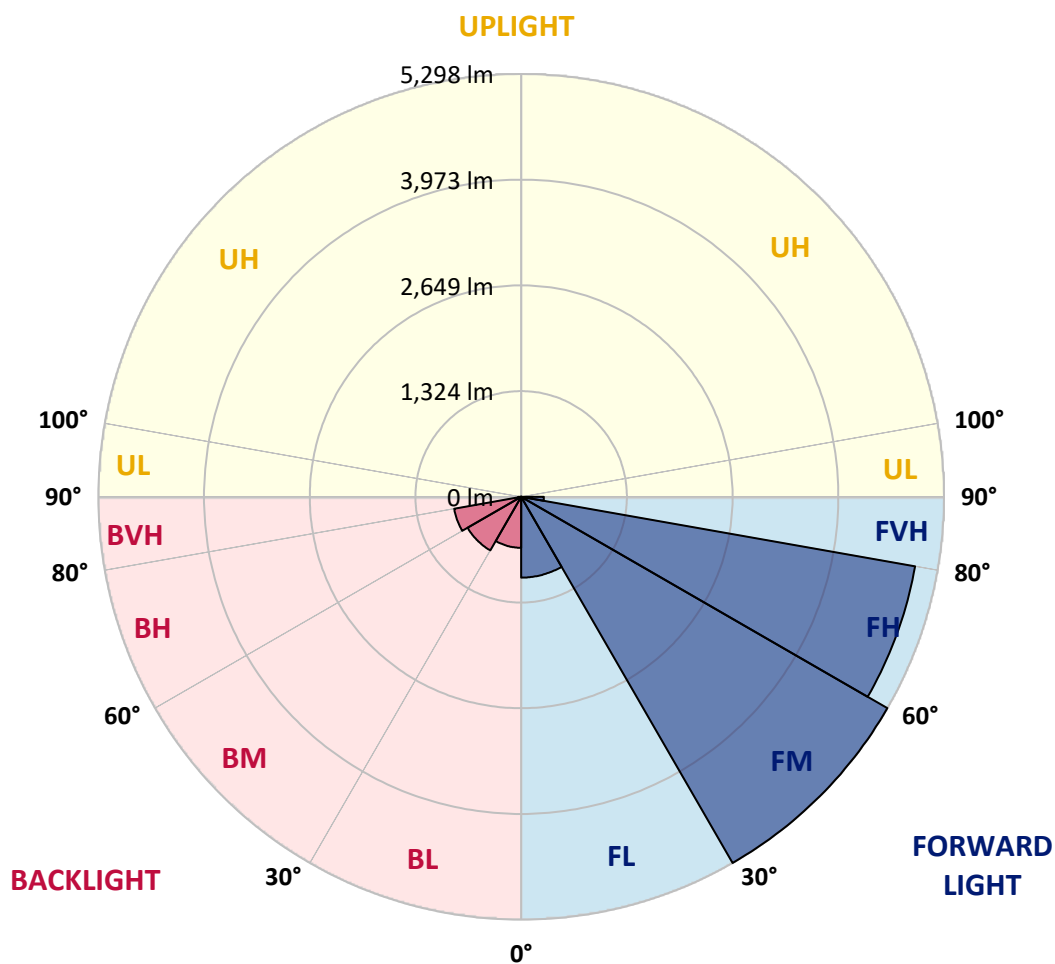
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.4	7.3			
FM	(30°-60°)	5297.6	38.1			
FH	(60°-80°)	5011.8	36.0			G3/7500
FVH	(80°-90°)	284.3	2.0			G3/500
BL	(0°-30°)	638.8	4.6	B2/1000		
BM	(30°-60°)	774.5	5.6	B1/1000		
BH	(60°-80°)	852.5	6.1	B2/1000		G2/1000
BVH	(80°-90°)	39.0	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°	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6
2.5°	2877.1	2881.8	2897.0	2906.6	2949.8	2968.3	2981.3	2994.4	2996.4	3002.6	2996.4
5°	2575.2	2585.5	2613.6	2645.1	2728.9	2794.8	2864.0	2936.1	2949.1	2995.8	3008.8
7.5°	2341.3	2338.5	2361.8	2399.7	2485.3	2576.6	2698.0	2841.4	2869.4	2974.5	3025.3
10°	2170.6	2168.5	2193.2	2232.2	2313.9	2400.3	2537.5	2733.6	2773.4	2940.8	3041.0
12.5°	2044.2	2045.0	2069.7	2112.8	2195.9	2283.0	2422.3	2629.5	2680.2	2901.7	3057.5
15°	1960.5	1966.0	1986.0	2031.9	2112.8	2199.9	2336.5	2551.2	2608.1	2870.9	3075.9
17.5°	1932.5	1941.3	1948.2	1981.9	2051.2	2138.2	2272.0	2493.7	2553.9	2849.6	3092.5
20°	1958.5	1968.9	1955.7	1967.4	2011.4	2088.2	2221.2	2448.3	2510.0	2825.7	3094.5
22.5°	2070.4	2080.0	2041.5	2007.8	2005.1	2051.8	2179.4	2412.7	2476.5	2807.8	3095.2
25°	2267.2	2273.3	2208.9	2130.7	2054.5	2038.8	2149.9	2388.0	2455.8	2792.0	3082.2
27.5°	2508.7	2513.5	2439.4	2324.2	2171.2	2069.7	2139.7	2373.5	2444.2	2778.3	3060.3
30°	2802.3	2824.9	2725.5	2580.0	2357.0	2160.9	2160.2	2366.0	2431.1	2755.0	3016.9
32.5°	3102.8	3112.4	3043.8	2896.3	2607.5	2321.4	2217.9	2371.5	2427.7	2726.8	2962.1
35°	3407.4	3419.7	3375.1	3256.5	2949.8	2556.6	2330.3	2403.7	2449.0	2717.3	2923.7
37.5°	3801.7	3818.3	3756.6	3619.3	3366.2	2875.7	2517.6	2484.7	2514.2	2744.7	2912.1
40°	4425.3	4417.8	4237.4	4033.0	3821.7	3283.9	2785.1	2621.9	2639.0	2833.2	2947.7
42.5°	5151.1	5132.7	4821.8	4500.8	4322.4	3777.7	3139.1	2859.9	2856.5	3007.4	3073.3
45°	5730.1	5715.1	5435.1	5039.4	4896.7	4340.4	3596.7	3214.6	3189.2	3283.9	3305.1
47.5°	6043.5	6044.3	5883.1	5559.9	5556.6	5055.1	4184.5	3727.7	3683.7	3728.4	3705.7
50°	5933.9	5948.3	5931.1	5828.2	6158.8	5992.3	4952.1	4443.2	4354.7	4398.6	4311.5
52.5°	5402.9	5421.5	5522.9	5680.7	6412.0	7124.8	6079.9	5332.3	5229.3	5213.6	5116.8
55°	4461.7	4484.3	4691.5	5120.2	6201.4	7885.6	7859.4	6465.5	6301.5	6152.7	6111.5
57.5°	3075.3	3113.1	3446.5	4083.0	5520.3	8115.3	9978.5	8081.1	7747.7	7227.6	7237.3
60°	1733.5	1777.4	2170.6	2748.8	4145.6	7865.6	11590.6	10528.0	9824.1	8486.5	8557.8
62.5°	1102.4	1149.7	1448.1	1909.9	2487.4	6521.0	12251.2	13929.8	13035.9	10038.2	10108.1
65°	892.4	913.1	1053.7	1576.4	1806.3	3928.8	11749.7	16732.1	16398.7	12007.7	11681.1
67.5°	871.3	878.1	950.8	1323.2	1732.1	2208.2	9372.0	17256.2	17625.9	13846.9	12336.3
70°	861.0	884.9	1071.5	1262.9	1658.8	1862.5	5632.0	15819.7	16403.5	14327.7	11464.3
72.5°	417.8	416.4	539.2	1142.2	1868.7	1931.8	2893.5	12799.9	13385.8	12413.1	9420.8
75°	336.8	308.0	294.4	418.5	1796.7	1994.8	1844.0	8807.5	9231.5	8322.5	5791.2
77.5°	319.7	285.3	261.3	262.0	759.4	2115.6	1562.0	4874.7	4998.2	3759.3	1586.7
80°	264.9	233.3	216.2	243.5	367.6	2014.7	1688.9	2206.2	2024.3	923.4	528.3
82.5°	183.9	167.3	162.6	204.5	294.4	1435.7	1964.1	1185.4	994.0	462.3	325.8
85°	117.4	100.2	111.1	148.8	229.1	662.6	2023.1	924.0	734.7	293.6	183.9
87.5°	54.2	43.9	54.8	82.3	149.5	228.5	1924.9	1038.0	756.6	155.0	116.0
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°	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6	3000.6
2.5°	3001.9	2988.9	2978.6	2959.4	2938.1	2917.5	2898.9	2875.7	2868.8	2862.7	2872.3
5°	3011.5	2998.5	2960.7	2901.7	2836.6	2775.5	2714.4	2662.3	2630.1	2612.3	2622.5
7.5°	3025.9	3007.4	2929.2	2820.8	2703.5	2596.5	2486.0	2397.5	2332.3	2301.5	2310.4
10°	3038.9	3003.3	2875.7	2713.1	2541.6	2382.5	2208.2	2064.1	1957.2	1900.9	1914.7
12.5°	3044.4	2987.4	2801.0	2578.6	2343.4	2110.2	1853.6	1638.2	1484.5	1428.2	1416.5
15°	3050.0	2969.6	2718.6	2425.7	2103.9	1774.0	1414.5	1156.6	1029.0	1000.9	994.7
17.5°	3051.3	2938.8	2625.3	2259.7	1823.4	1374.1	967.3	803.3	804.0	849.3	854.7
20°	3036.9	2892.8	2512.1	2053.2	1487.2	950.1	664.1	635.9	739.4	852.7	866.4
22.5°	3004.0	2831.8	2383.8	1812.4	1102.4	625.6	513.8	544.6	678.5	817.0	832.8
25°	2962.1	2757.7	2232.2	1533.2	729.9	447.3	430.8	468.5	559.1	651.7	660.6
27.5°	2905.2	2669.9	2062.0	1213.6	474.0	368.4	379.3	404.7	441.7	482.9	487.1
30°	2831.8	2565.0	1880.4	884.9	358.1	331.4	347.1	360.9	376.6	399.9	402.0
32.5°	2747.5	2464.2	1693.7	611.2	317.6	312.2	324.5	331.4	343.7	358.1	359.5
35°	2676.8	2368.0	1500.2	432.2	300.5	297.7	305.9	308.6	320.3	336.2	337.5
37.5°	2636.3	2289.8	1300.6	348.5	288.8	284.7	289.5	289.5	305.9	329.3	332.7
40°	2639.0	2246.6	1101.0	314.8	279.1	273.7	274.3	274.3	295.6	321.0	323.1
42.5°	2713.8	2257.7	924.0	301.9	271.6	265.5	262.0	264.1	282.0	298.4	299.8
45°	2889.4	2335.1	758.0	293.6	264.1	262.0	254.5	253.8	260.7	268.2	268.2
47.5°	3177.5	2488.1	645.5	288.1	258.0	257.2	248.3	239.4	238.7	241.5	241.5
50°	3646.1	2751.4	570.2	282.0	253.8	248.3	238.0	224.3	219.5	221.6	221.6
52.5°	4348.5	3221.4	541.3	273.7	244.8	236.0	224.3	210.7	206.5	207.1	207.1
55°	5269.8	3943.0	537.1	264.1	235.4	220.9	211.3	201.0	196.2	197.5	197.5
57.5°	6395.5	4941.2	610.5	249.0	222.3	205.9	200.3	193.5	190.0	192.1	191.4
60°	7764.1	6247.3	905.5	233.3	209.2	192.1	192.1	186.7	183.9	186.0	185.2
62.5°	9340.5	7747.7	1273.2	221.6	195.5	181.2	183.9	181.2	178.3	179.7	179.0
65°	10738.5	8725.2	1192.2	212.6	181.8	170.8	175.6	174.3	172.2	173.5	172.8
67.5°	10779.1	8362.9	669.5	203.0	168.8	160.5	167.3	166.7	165.3	166.7	166.0
70°	9619.7	7061.7	377.3	185.2	155.0	148.1	157.8	157.2	155.7	158.4	157.8
72.5°	7707.1	5124.4	275.8	163.3	141.3	135.2	146.1	145.5	145.5	149.5	147.5
75°	4435.0	2637.0	220.1	140.0	127.0	122.2	131.6	132.4	133.8	139.3	135.2
77.5°	1264.2	821.8	179.7	118.6	109.0	107.0	116.6	118.0	118.6	124.9	119.3
80°	470.0	378.7	148.1	99.4	89.1	89.8	98.8	100.8	101.5	107.7	100.8
82.5°	299.8	249.6	120.0	76.8	69.9	69.3	80.3	83.0	83.0	83.7	79.5
85°	175.0	149.5	90.5	55.6	49.3	47.3	59.6	64.5	62.4	61.0	58.4
87.5°	117.4	102.9	55.6	30.9	26.8	25.3	35.0	38.5	37.0	35.0	32.9
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)