

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: P191081

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191081
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-SL2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 14713.1 lumens
Efficiency: N/A
Efficacy: 118.7 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

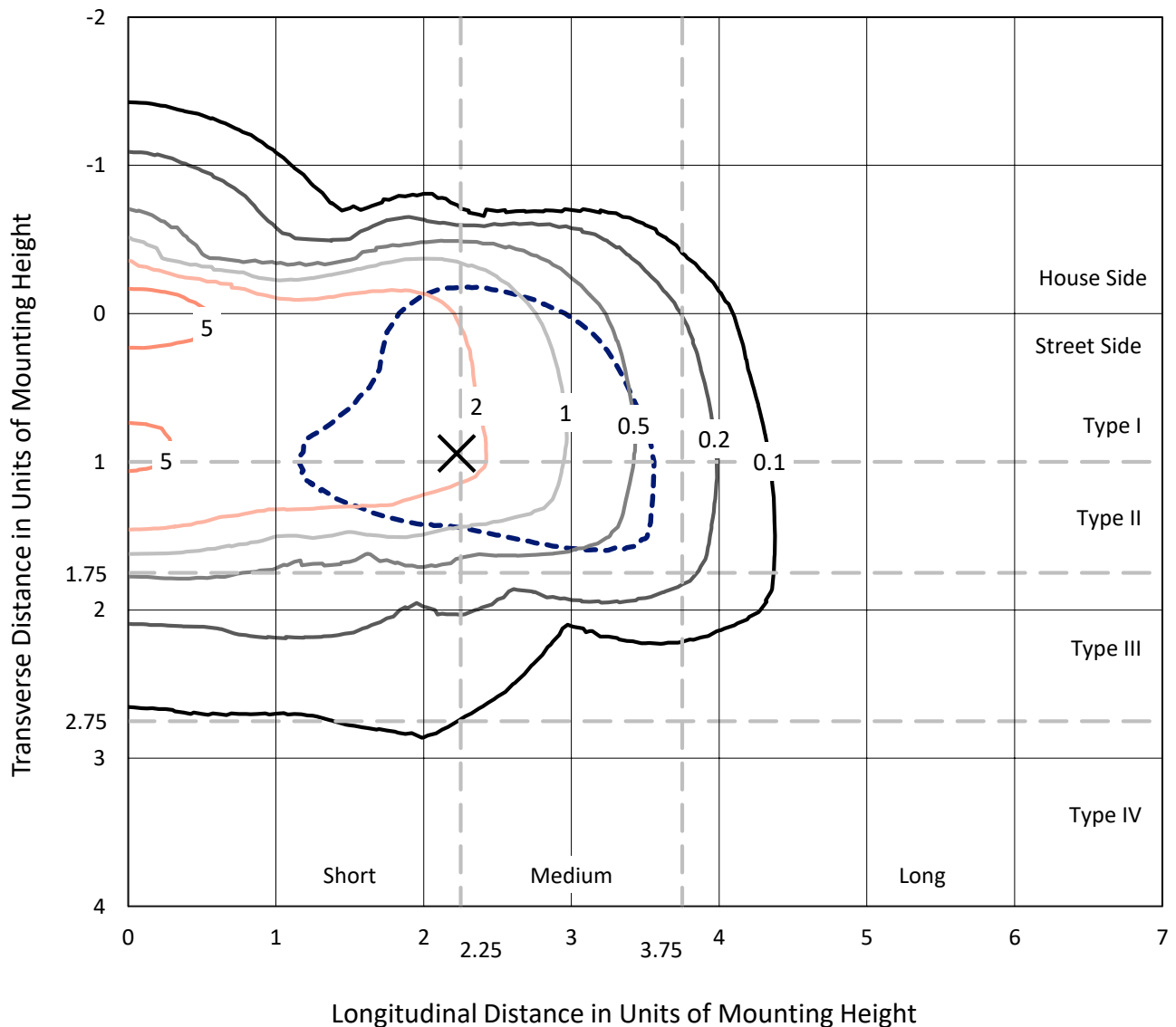
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

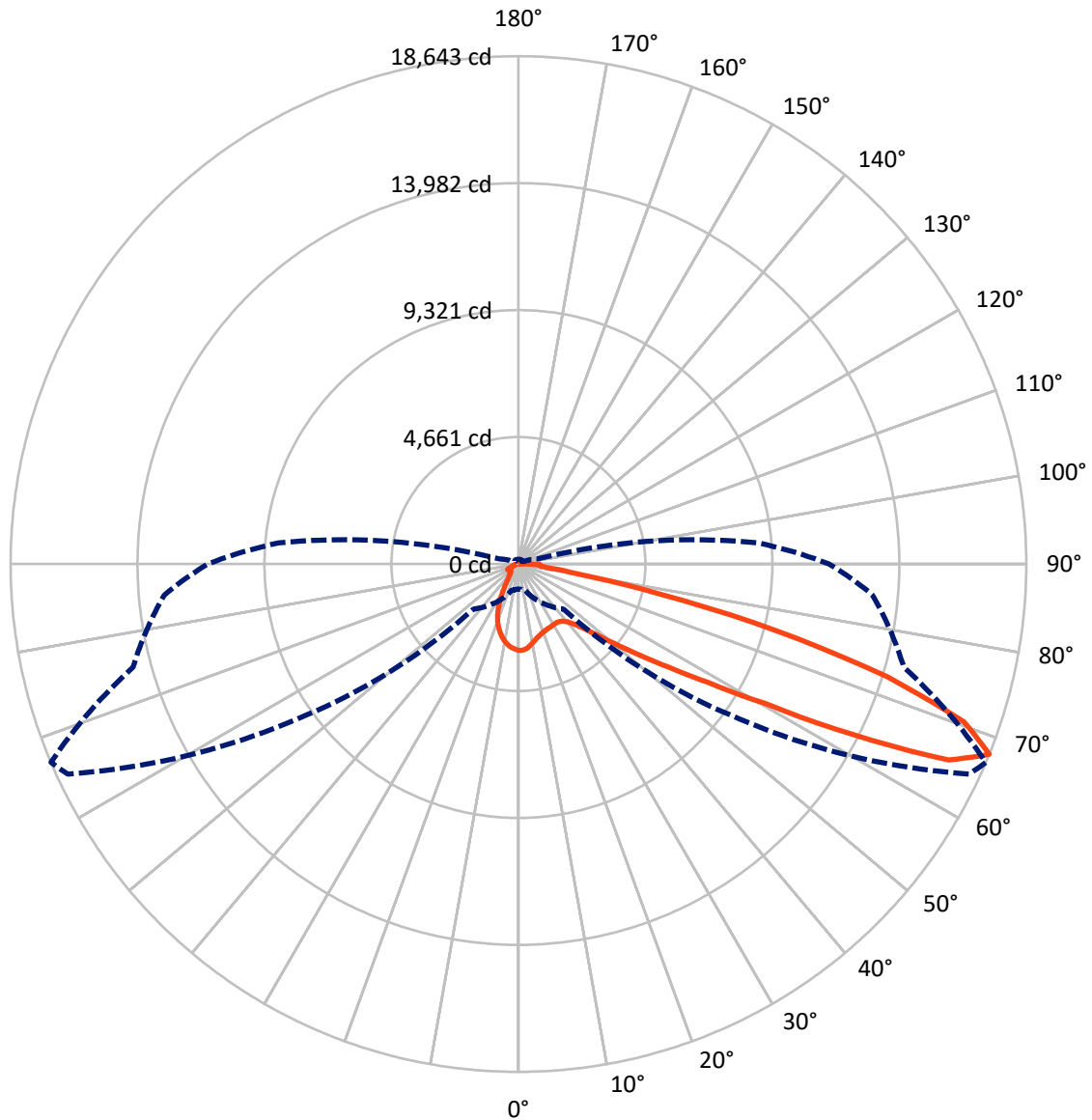
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2437.8	0.0	2437.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	12275.3	0.0	12275.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	14713.1	0.0	14713.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	1.8
10°-20°	626.5	4.3
20°-30°	849.2	5.8
30°-40°	1207.2	8.2
40°-50°	2019.8	13.7
50°-60°	3195.2	21.7
60°-70°	4070.4	27.7
70°-80°	2132.1	14.5
80°-90°	341.9	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°	14713.1	100.0
0°-180°	14713.1	100.0



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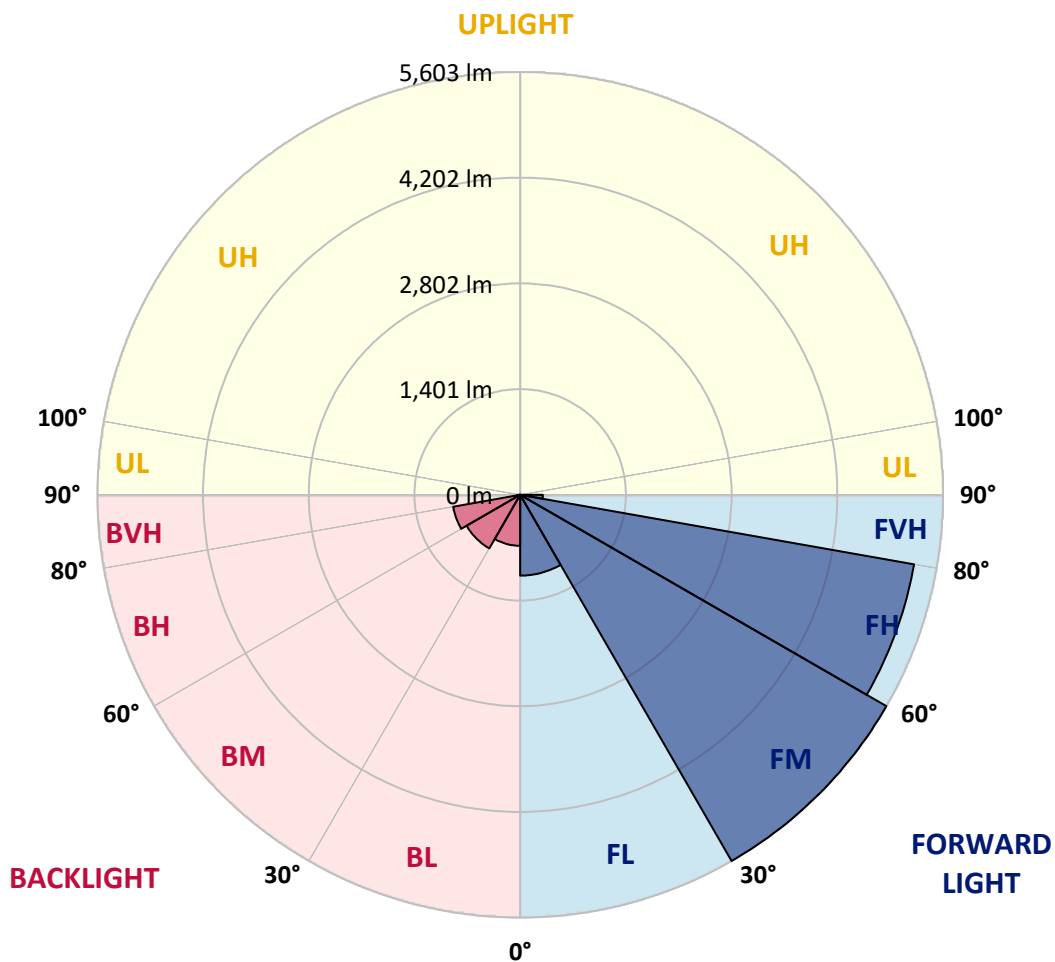
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.8	7.3			
FM (30°-60°)	5603.0	38.1			
FH (60°-80°)	5300.8	36.0			G3/7500
FVH (80°-90°)	300.7	2.0			G3/500
BL (0°-30°)	675.7	4.6	B2/1000		
BM (30°-60°)	819.2	5.6	B1/1000		
BH (60°-80°)	901.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	41.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6
2.5°	3043.0	3048.1	3064.0	3074.2	3119.9	3139.4	3153.2	3167.1	3169.2	3175.8	3169.2
5°	2723.7	2734.7	2764.3	2797.8	2886.3	2955.9	3029.2	3105.4	3119.2	3168.5	3182.3
7.5°	2476.4	2473.4	2498.0	2538.0	2628.7	2725.1	2853.6	3005.2	3035.0	3146.0	3199.7
10°	2295.7	2293.5	2319.6	2361.0	2447.3	2538.8	2683.8	2891.4	2933.4	3110.5	3216.4
12.5°	2162.1	2162.9	2189.0	2234.7	2322.5	2414.7	2562.0	2781.1	2834.7	3069.1	3233.8
15°	2073.6	2079.5	2100.5	2149.1	2234.7	2326.9	2471.2	2698.3	2758.6	3036.4	3253.4
17.5°	2043.9	2053.4	2060.5	2096.1	2169.4	2261.5	2403.0	2637.4	2701.2	3013.9	3270.8
20°	2071.5	2082.3	2068.5	2080.9	2127.3	2208.6	2349.3	2589.5	2654.8	2988.6	3272.9
22.5°	2189.7	2199.9	2159.2	2123.7	2120.8	2170.1	2305.1	2551.8	2619.3	2969.7	3273.7
25°	2398.0	2404.4	2336.3	2253.6	2173.1	2156.4	2273.9	2525.7	2597.5	2953.1	3259.9
27.5°	2653.3	2658.4	2580.1	2458.2	2296.4	2189.0	2263.0	2510.4	2585.2	2938.5	3236.7
30°	2963.9	2987.8	2882.7	2728.8	2493.0	2285.5	2284.8	2502.4	2571.4	2913.9	3191.0
32.5°	3281.7	3291.9	3219.3	3063.3	2757.9	2455.3	2345.7	2508.3	2567.7	2884.1	3133.0
35°	3603.9	3616.8	3569.7	3444.2	3119.9	2704.2	2464.7	2542.3	2590.2	2873.9	3092.3
37.5°	4021.0	4038.4	3973.1	3828.0	3560.3	3041.5	2662.7	2628.0	2659.2	2902.9	3080.0
40°	4680.5	4672.5	4481.8	4265.5	4042.1	3473.2	2945.8	2773.1	2791.2	2996.5	3117.7
42.5°	5448.2	5428.6	5099.9	4760.4	4571.8	3995.6	3320.2	3024.9	3021.2	3180.9	3250.5
45°	6060.6	6044.6	5748.6	5329.9	5179.0	4590.6	3804.0	3400.0	3373.1	3473.2	3495.7
47.5°	6392.1	6392.8	6222.4	5880.6	5877.0	5346.7	4425.9	3942.7	3896.2	3943.4	3919.4
50°	6276.0	6291.2	6273.1	6164.3	6514.0	6337.7	5237.8	4699.4	4605.8	4652.3	4560.1
52.5°	5714.5	5734.0	5841.5	6008.3	6781.8	7535.7	6430.6	5639.7	5530.9	5514.2	5411.9
55°	4719.0	4742.9	4962.0	5415.5	6559.1	8340.2	8312.7	6838.3	6664.9	6507.5	6463.9
57.5°	3252.7	3292.6	3645.2	4318.5	5838.6	8583.3	10553.9	8547.1	8194.4	7644.4	7654.6
60°	1833.4	1879.9	2295.7	2907.3	4384.6	8319.2	12258.9	11135.1	10390.7	8975.9	9051.3
62.5°	1166.0	1216.0	1531.7	2019.9	2630.8	6897.1	12957.7	14733.2	13787.7	10617.1	10691.1
65°	944.0	965.7	1114.4	1667.3	1910.4	4155.2	12427.3	17697.0	17344.4	12700.1	12354.8
67.5°	921.5	928.7	1005.7	1399.6	1832.0	2335.6	9912.5	18251.4	18642.5	14645.4	13047.6
70°	910.5	936.0	1133.3	1335.8	1754.4	1969.9	5956.8	16732.0	17349.5	15154.0	12125.4
72.5°	441.8	440.4	570.3	1208.0	1976.4	2043.1	3060.4	13538.1	14157.7	13129.0	9964.1
75°	356.3	325.8	311.3	442.6	1900.2	2109.9	1950.3	9315.4	9763.8	8802.4	6125.1
77.5°	338.1	301.9	276.4	277.1	803.2	2237.6	1652.1	5155.8	5286.4	3976.0	1678.3
80°	280.1	246.7	228.5	257.6	388.9	2130.9	1786.3	2333.4	2141.1	976.6	558.6
82.5°	194.5	177.1	172.0	216.3	311.3	1518.6	2077.3	1253.7	1051.3	489.1	344.6
85°	124.1	106.0	117.5	157.4	242.3	700.9	2139.7	977.3	777.0	310.6	194.5
87.5°	57.3	46.4	58.0	87.1	158.1	241.6	2035.9	1097.7	800.3	164.0	122.7
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°	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6	3173.6
2.5°	3175.0	3161.2	3150.4	3130.0	3107.5	3085.8	3066.2	3041.5	3034.3	3027.7	3037.9
5°	3185.2	3171.5	3131.5	3069.1	3000.2	2935.6	2871.0	2815.9	2781.8	2762.9	2773.8
7.5°	3200.4	3180.9	3098.1	2983.4	2859.5	2746.2	2629.4	2535.8	2466.8	2434.2	2443.6
10°	3214.2	3176.5	3041.5	2869.6	2688.2	2519.8	2335.6	2183.2	2070.0	2010.5	2025.0
12.5°	3220.0	3159.8	2962.5	2727.4	2478.5	2231.8	1960.5	1732.7	1570.1	1510.6	1498.3
15°	3225.8	3141.0	2875.4	2565.6	2225.3	1876.3	1496.1	1223.2	1088.3	1058.5	1052.1
17.5°	3227.3	3108.2	2776.7	2390.0	1928.6	1453.3	1023.1	849.7	850.4	898.3	904.1
20°	3212.1	3059.6	2657.0	2171.6	1573.0	1004.8	702.4	672.6	782.1	901.8	916.4
22.5°	3177.2	2995.1	2521.3	1916.9	1166.0	661.7	543.4	576.1	717.6	864.1	880.9
25°	3133.0	2916.7	2361.0	1621.6	772.0	473.0	455.6	495.5	591.4	689.3	698.7
27.5°	3072.7	2823.9	2181.0	1283.5	501.3	389.6	401.2	428.1	467.3	510.8	515.2
30°	2995.1	2712.9	1988.7	936.0	378.7	350.5	367.1	381.7	398.3	423.0	425.1
32.5°	2905.9	2606.2	1791.4	646.5	335.9	330.1	343.2	350.5	363.5	378.7	380.2
35°	2831.1	2504.6	1586.8	457.1	317.8	314.9	323.6	326.5	338.8	355.5	357.0
37.5°	2788.4	2421.9	1375.7	368.6	305.5	301.1	306.2	306.2	323.6	348.3	351.9
40°	2791.2	2376.2	1164.5	333.1	295.3	289.5	290.2	290.2	312.7	339.5	341.8
42.5°	2870.3	2387.8	977.3	319.3	287.3	280.8	277.1	279.4	298.2	315.6	317.1
45°	3056.1	2469.8	801.8	310.6	279.4	277.1	269.1	268.4	275.7	283.7	283.7
47.5°	3360.8	2631.5	682.7	304.7	272.8	272.1	262.7	253.2	252.5	255.4	255.4
50°	3856.3	2910.2	602.9	298.2	268.4	262.7	251.7	237.2	232.2	234.4	234.4
52.5°	4599.3	3407.2	572.4	289.5	259.0	249.6	237.2	222.7	218.4	219.1	219.1
55°	5573.8	4170.5	568.1	279.4	248.9	233.6	223.5	212.6	207.6	209.0	209.0
57.5°	6764.4	5226.2	645.8	263.4	235.1	217.7	211.9	204.6	201.0	203.2	202.4
60°	8211.8	6607.6	957.7	246.7	221.3	203.2	203.2	197.3	194.5	196.6	195.9
62.5°	9879.1	8194.4	1346.6	234.4	206.7	191.5	194.5	191.5	188.6	190.1	189.3
65°	11357.8	9228.3	1261.0	224.9	192.3	180.7	185.8	184.3	182.1	183.5	182.8
67.5°	11400.7	8845.3	708.2	214.7	178.5	169.8	177.1	176.4	174.8	176.4	175.5
70°	10174.5	7468.9	399.1	195.9	164.0	156.7	166.8	166.1	164.7	167.6	166.8
72.5°	8151.6	5419.9	291.6	172.7	149.5	142.9	154.6	153.9	153.9	158.1	156.0
75°	4690.7	2789.1	232.9	148.0	134.2	129.2	139.3	140.0	141.5	147.3	142.9
77.5°	1337.2	869.2	190.1	125.5	115.4	113.1	123.4	124.8	125.5	132.1	126.2
80°	497.1	400.5	156.7	105.2	94.3	95.0	104.4	106.7	107.4	114.0	106.7
82.5°	317.1	264.1	126.9	81.2	74.0	73.2	84.9	87.8	87.8	88.5	84.2
85°	185.1	158.1	95.7	58.8	52.3	50.0	63.1	68.2	66.0	64.5	61.7
87.5°	124.1	108.8	58.8	32.6	28.3	26.8	37.0	40.6	39.2	37.0	34.8
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)