

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: P193641

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193641
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-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA 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: 15936 lumens
Efficiency: N/A
Efficacy: 83.4 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): 191
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

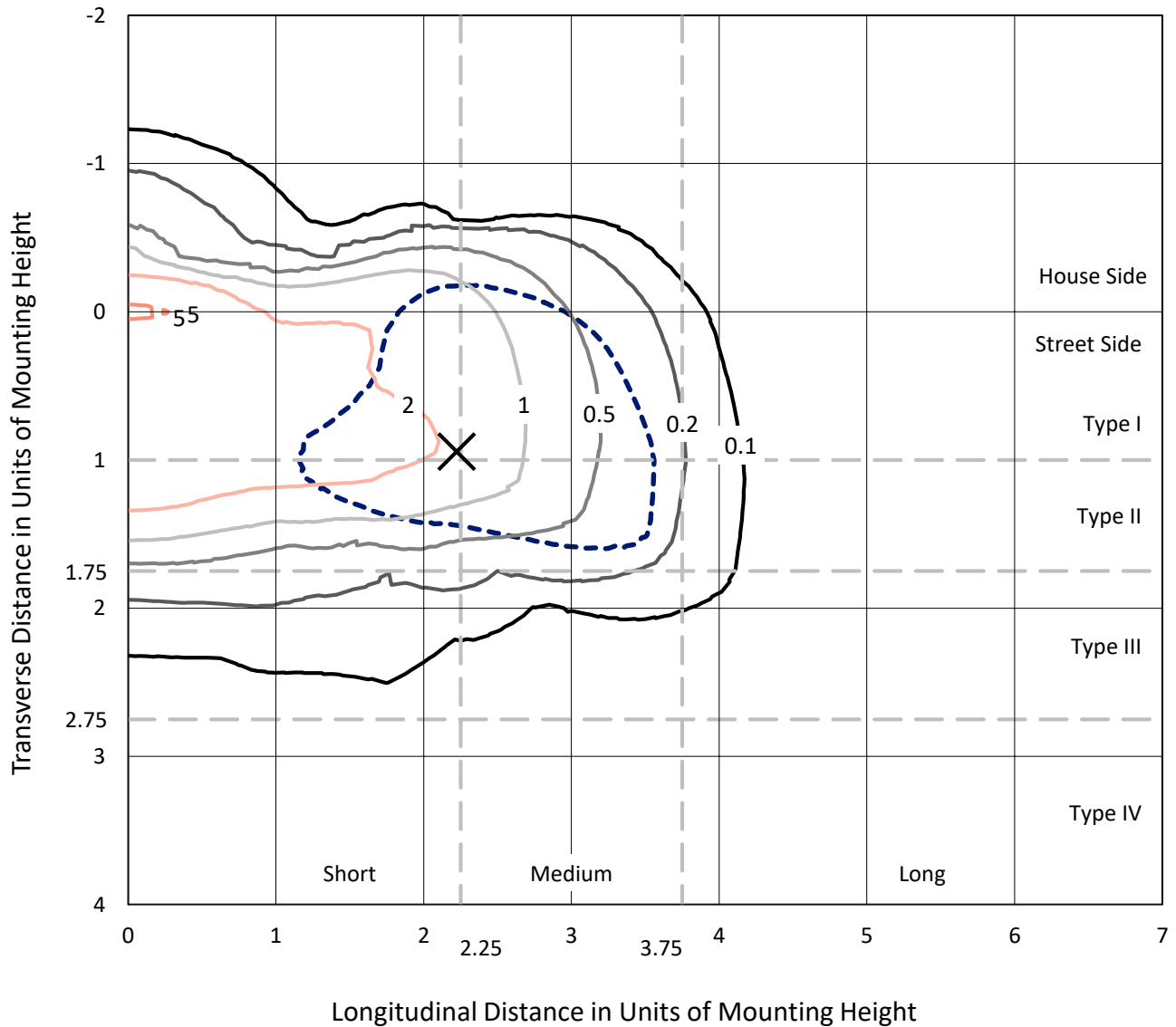


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

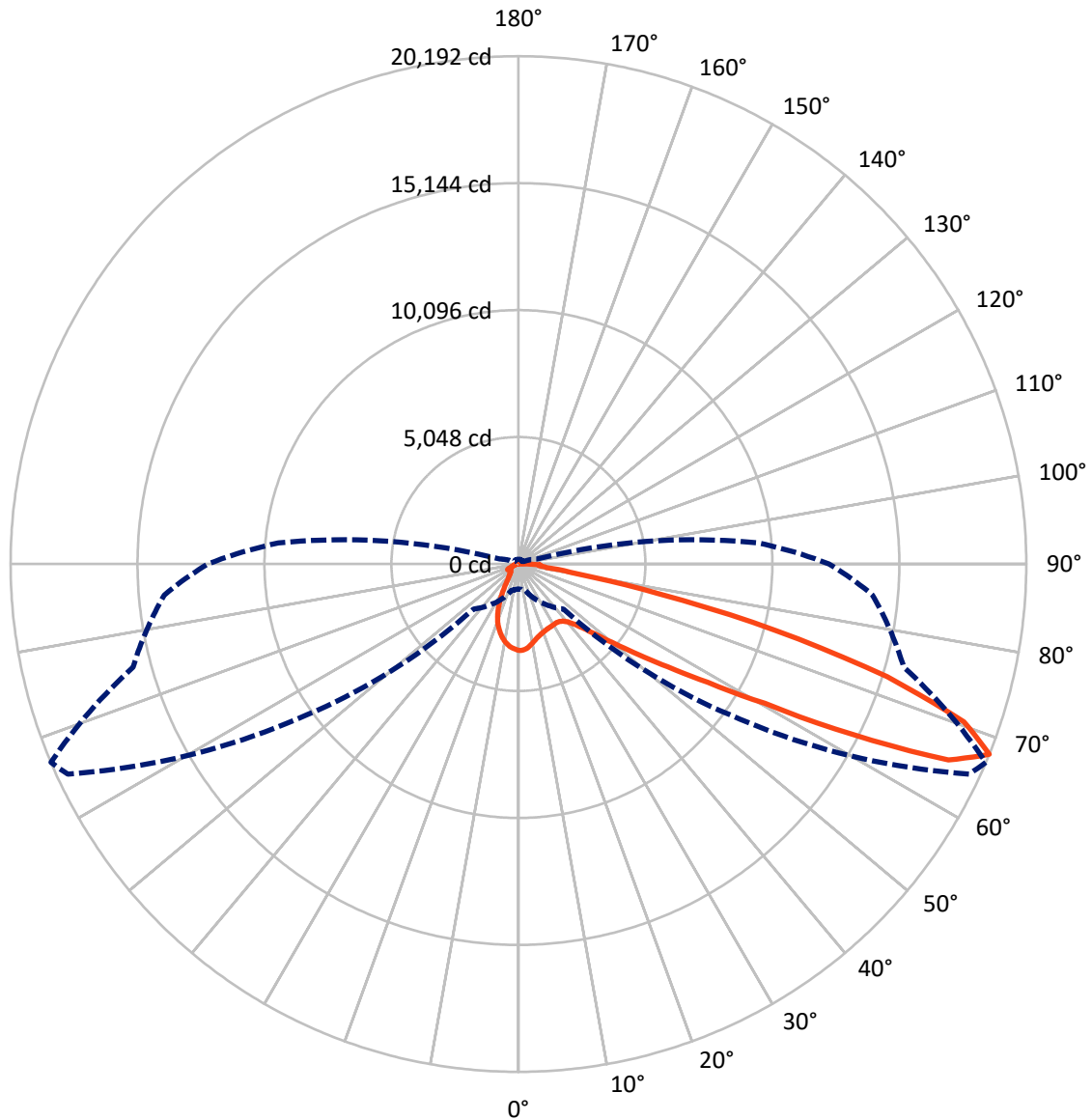


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Semi-Cutoff

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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	2640.4	0.0	2640.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	13295.6	0.0	13295.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	15936.0	0.0	15936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	1.8
10°-20°	678.6	4.3
20°-30°	919.8	5.8
30°-40°	1307.6	8.2
40°-50°	2187.6	13.7
50°-60°	3460.8	21.7
60°-70°	4408.7	27.7
70°-80°	2309.3	14.5
80°-90°	370.4	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°	15936.0	100.0
0°-180°	15936.0	100.0



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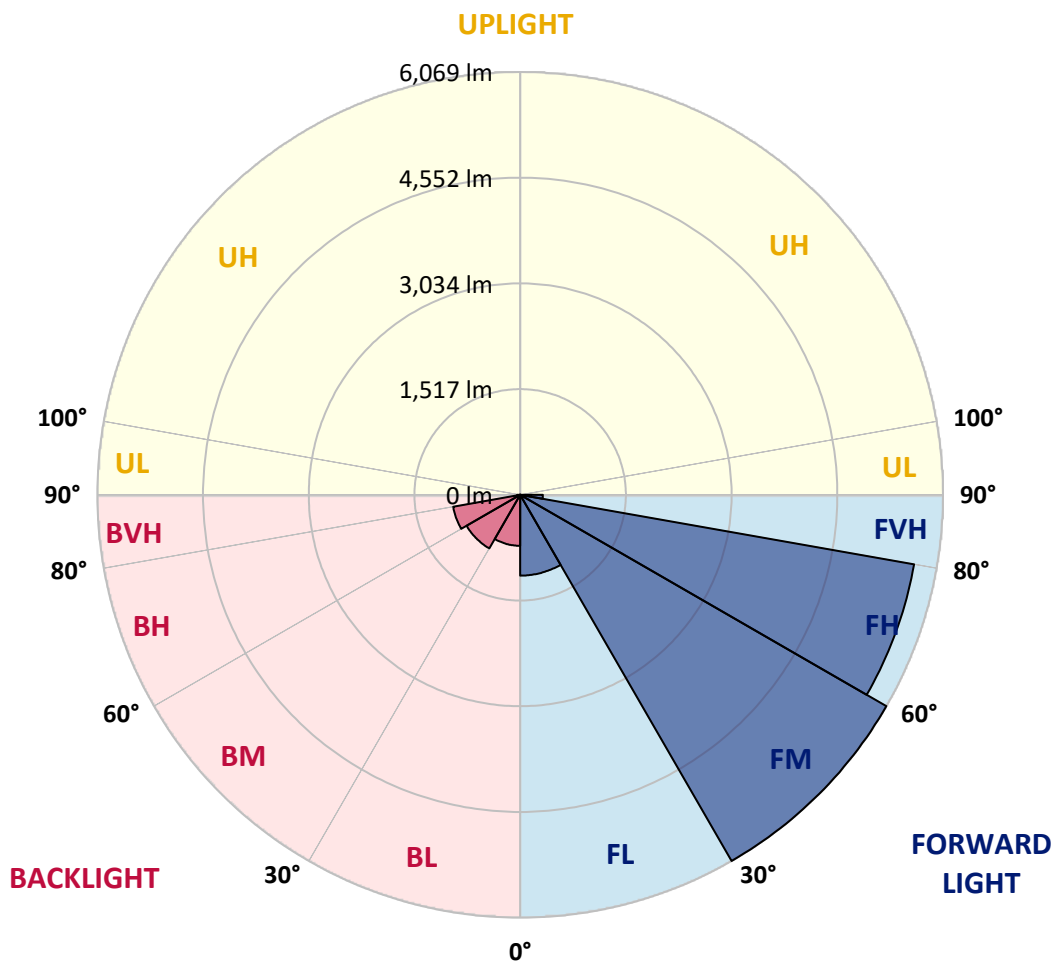
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.8	7.3			
FM	(30°-60°)	6068.8	38.1			
FH	(60°-80°)	5741.4	36.0			G3/7500
FVH	(80°-90°)	325.7	2.0			G3/500
BL	(0°-30°)	731.9	4.6	B2/1000		
BM	(30°-60°)	887.3	5.6	B1/1000		
BH	(60°-80°)	976.6	6.1	B2/1000		G2/1000
BVH	(80°-90°)	44.7	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°	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4
2.5°	3295.9	3301.4	3318.7	3329.7	3379.2	3400.4	3415.4	3430.3	3432.6	3439.7	3432.6
5°	2950.1	2961.9	2994.1	3030.3	3126.2	3201.6	3281.0	3363.5	3378.4	3431.9	3446.8
7.5°	2682.1	2679.0	2705.7	2748.9	2847.2	2951.7	3090.8	3255.0	3287.3	3407.5	3465.6
10°	2486.5	2484.1	2512.4	2557.2	2650.7	2749.7	2906.9	3131.7	3177.2	3369.0	3483.7
12.5°	2341.9	2342.7	2370.9	2420.5	2515.5	2615.3	2774.9	3012.2	3070.4	3324.2	3502.6
15°	2246.0	2252.3	2275.1	2327.7	2420.5	2520.3	2676.6	2922.6	2987.8	3288.8	3523.8
17.5°	2213.8	2224.0	2231.8	2270.4	2349.7	2449.5	2602.8	2856.6	2925.8	3264.5	3542.7
20°	2243.6	2255.4	2240.5	2253.8	2304.1	2392.2	2544.6	2804.7	2875.5	3237.0	3545.0
22.5°	2371.7	2382.7	2338.7	2300.2	2297.1	2350.5	2496.7	2763.9	2837.0	3216.5	3545.8
25°	2597.3	2604.3	2530.5	2440.9	2353.7	2335.6	2462.9	2735.6	2813.4	3198.5	3530.9
27.5°	2873.9	2879.4	2794.5	2662.5	2487.3	2370.9	2451.1	2719.1	2800.0	3182.7	3505.7
30°	3210.2	3236.2	3122.2	2955.6	2700.2	2475.5	2474.7	2710.4	2785.1	3156.0	3456.2
32.5°	3554.4	3565.5	3486.9	3317.9	2987.1	2659.4	2540.7	2716.7	2781.2	3123.8	3393.3
35°	3903.4	3917.5	3866.4	3730.5	3379.2	2928.9	2669.6	2753.7	2805.5	3112.8	3349.3
37.5°	4355.2	4374.1	4303.4	4146.2	3856.2	3294.3	2884.1	2846.4	2880.2	3144.2	3336.0
40°	5069.6	5060.9	4854.3	4620.1	4378.0	3761.9	3190.6	3003.6	3023.2	3245.6	3376.8
42.5°	5901.0	5879.8	5523.8	5156.0	4951.7	4327.7	3596.1	3276.3	3272.3	3445.2	3520.7
45°	6564.3	6547.0	6226.4	5772.9	5609.5	4972.1	4120.3	3682.5	3653.5	3761.9	3786.3
47.5°	6923.4	6924.2	6739.5	6369.4	6365.5	5791.0	4793.8	4270.4	4220.1	4271.2	4245.2
50°	6797.7	6814.2	6794.6	6676.7	7055.5	6864.5	5673.1	5090.0	4988.6	5038.9	4939.1
52.5°	6189.4	6210.7	6327.0	6507.7	7345.4	8162.0	6965.1	6108.5	5990.6	5972.5	5861.7
55°	5111.2	5137.2	5374.5	5865.7	7104.2	9033.5	9003.6	7406.7	7218.9	7048.4	7001.2
57.5°	3523.0	3566.2	3948.2	4677.4	6323.8	9296.7	11431.1	9257.4	8875.5	8279.8	8290.8
60°	1985.9	2036.2	2486.5	3148.9	4749.0	9010.7	13277.9	12060.6	11254.3	9721.9	9803.6
62.5°	1262.9	1317.1	1659.0	2187.8	2849.5	7470.4	14034.7	15957.7	14933.7	11499.5	11579.7
65°	1022.4	1046.0	1207.1	1805.9	2069.2	4500.6	13460.2	19167.9	18786.0	13755.7	13381.6
67.5°	998.0	1005.9	1089.2	1515.9	1984.3	2529.7	10736.4	19768.3	20191.9	15862.6	14132.1
70°	986.3	1013.8	1227.5	1446.8	1900.2	2133.6	6451.9	18122.7	18791.5	16413.5	13133.3
72.5°	478.6	477.0	617.7	1308.5	2140.7	2213.0	3314.8	14663.4	15334.5	14220.2	10792.2
75°	385.9	352.9	337.1	479.4	2058.2	2285.3	2112.4	10089.7	10575.3	9534.1	6634.2
77.5°	366.2	326.9	299.4	300.2	869.9	2423.6	1789.4	5584.3	5725.8	4306.5	1817.7
80°	303.3	267.2	247.5	279.0	421.2	2308.1	1934.8	2527.3	2319.1	1057.8	605.1
82.5°	210.6	191.8	186.2	234.2	337.1	1644.8	2249.9	1358.0	1138.7	529.7	373.3
85°	134.4	114.7	127.3	170.5	262.5	759.1	2317.5	1058.6	841.7	336.3	210.6
87.5°	62.1	50.3	62.9	94.3	171.3	261.7	2205.1	1189.0	866.8	177.6	132.8
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°	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4	3437.4
2.5°	3438.9	3424.0	3412.2	3390.2	3365.8	3342.3	3321.0	3294.3	3286.5	3279.4	3290.4
5°	3449.9	3435.0	3391.8	3324.2	3249.5	3179.6	3109.7	3049.9	3013.0	2992.6	3004.3
7.5°	3466.4	3445.2	3355.6	3231.5	3097.1	2974.5	2848.0	2746.6	2671.9	2636.6	2646.8
10°	3481.4	3440.5	3294.3	3108.1	2911.6	2729.3	2529.7	2364.7	2242.1	2177.6	2193.3
12.5°	3487.7	3422.4	3208.7	2954.1	2684.5	2417.3	2123.4	1876.6	1700.6	1636.2	1622.8
15°	3493.9	3402.0	3114.4	2778.8	2410.2	2032.2	1620.4	1325.0	1178.8	1146.6	1139.5
17.5°	3495.5	3366.6	3007.5	2588.6	2088.8	1574.1	1108.1	920.2	921.0	972.9	979.2
20°	3479.0	3314.0	2877.8	2352.1	1703.7	1088.4	760.7	728.5	847.2	976.8	992.5
22.5°	3441.3	3244.0	2730.9	2076.2	1262.9	716.7	588.6	624.0	777.2	936.0	954.0
25°	3393.3	3159.2	2557.2	1756.4	836.2	512.4	493.5	536.7	640.5	746.6	756.8
27.5°	3328.1	3058.6	2362.3	1390.2	543.0	422.0	434.6	463.7	506.1	553.2	558.0
30°	3244.0	2938.3	2154.0	1013.8	410.2	379.6	397.6	413.4	431.4	458.2	460.5
32.5°	3147.4	2822.8	1940.3	700.2	363.9	357.6	371.7	379.6	393.7	410.2	411.8
35°	3066.4	2712.8	1718.7	495.1	344.2	341.1	350.5	353.6	367.0	385.1	386.6
37.5°	3020.1	2623.2	1490.0	399.2	330.8	326.1	331.6	331.6	350.5	377.2	381.1
40°	3023.2	2573.7	1261.3	360.7	319.8	313.6	314.3	314.3	338.7	367.8	370.1
42.5°	3108.9	2586.3	1058.6	345.8	311.2	304.1	300.2	302.6	323.0	341.8	343.4
45°	3310.0	2675.1	868.4	336.3	302.6	300.2	291.6	290.8	298.6	307.3	307.3
47.5°	3640.1	2850.3	739.5	330.1	295.5	294.7	284.5	274.3	273.5	276.6	276.6
50°	4176.9	3152.1	653.1	323.0	290.8	284.5	272.7	257.0	251.5	253.8	253.8
52.5°	4981.6	3690.4	620.0	313.6	280.6	270.3	257.0	241.3	236.5	237.3	237.3
55°	6037.0	4517.1	615.3	302.6	269.6	253.0	242.0	230.3	224.8	226.3	226.3
57.5°	7326.6	5660.6	699.4	285.3	254.6	235.8	229.5	221.6	217.7	220.0	219.3
60°	8894.4	7156.8	1037.3	267.2	239.7	220.0	220.0	213.8	210.6	213.0	212.2
62.5°	10700.3	8875.5	1458.6	253.8	224.0	207.5	210.6	207.5	204.3	205.9	205.1
65°	12301.9	9995.4	1365.8	243.6	208.3	195.7	201.2	199.6	197.3	198.8	198.0
67.5°	12348.2	9580.4	767.0	232.6	193.3	183.9	191.8	191.0	189.4	191.0	190.2
70°	11020.1	8089.7	432.2	212.2	177.6	169.7	180.7	180.0	178.4	181.5	180.7
72.5°	8829.1	5870.4	315.9	187.0	161.9	154.8	167.4	166.6	166.6	171.3	169.0
75°	5080.6	3020.8	252.3	160.3	145.4	139.9	150.9	151.7	153.2	159.5	154.8
77.5°	1448.3	941.5	205.9	136.0	125.0	122.6	133.6	135.2	136.0	143.0	136.7
80°	538.3	433.8	169.7	113.9	102.2	102.9	113.2	115.5	116.3	123.4	115.5
82.5°	343.4	286.1	137.5	88.0	80.2	79.4	91.9	95.1	95.1	95.9	91.2
85°	200.4	171.3	103.7	63.7	56.6	54.2	68.4	73.9	71.5	69.9	66.8
87.5°	134.4	117.9	63.7	35.4	30.6	29.1	40.1	44.0	42.4	40.1	37.7
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)