

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: P191082

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191082
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-04-LED-E1-SL2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 19441.2 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

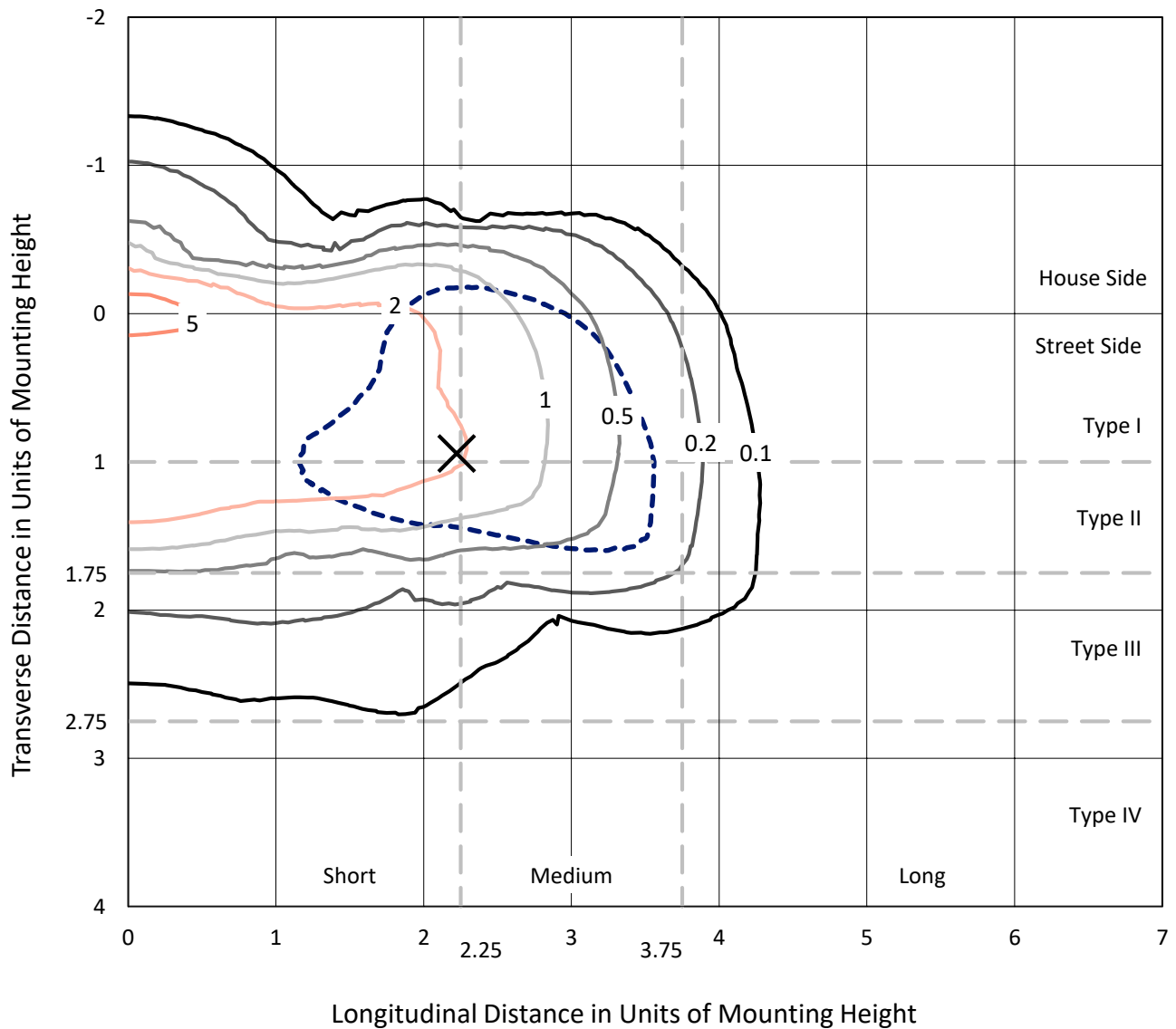
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

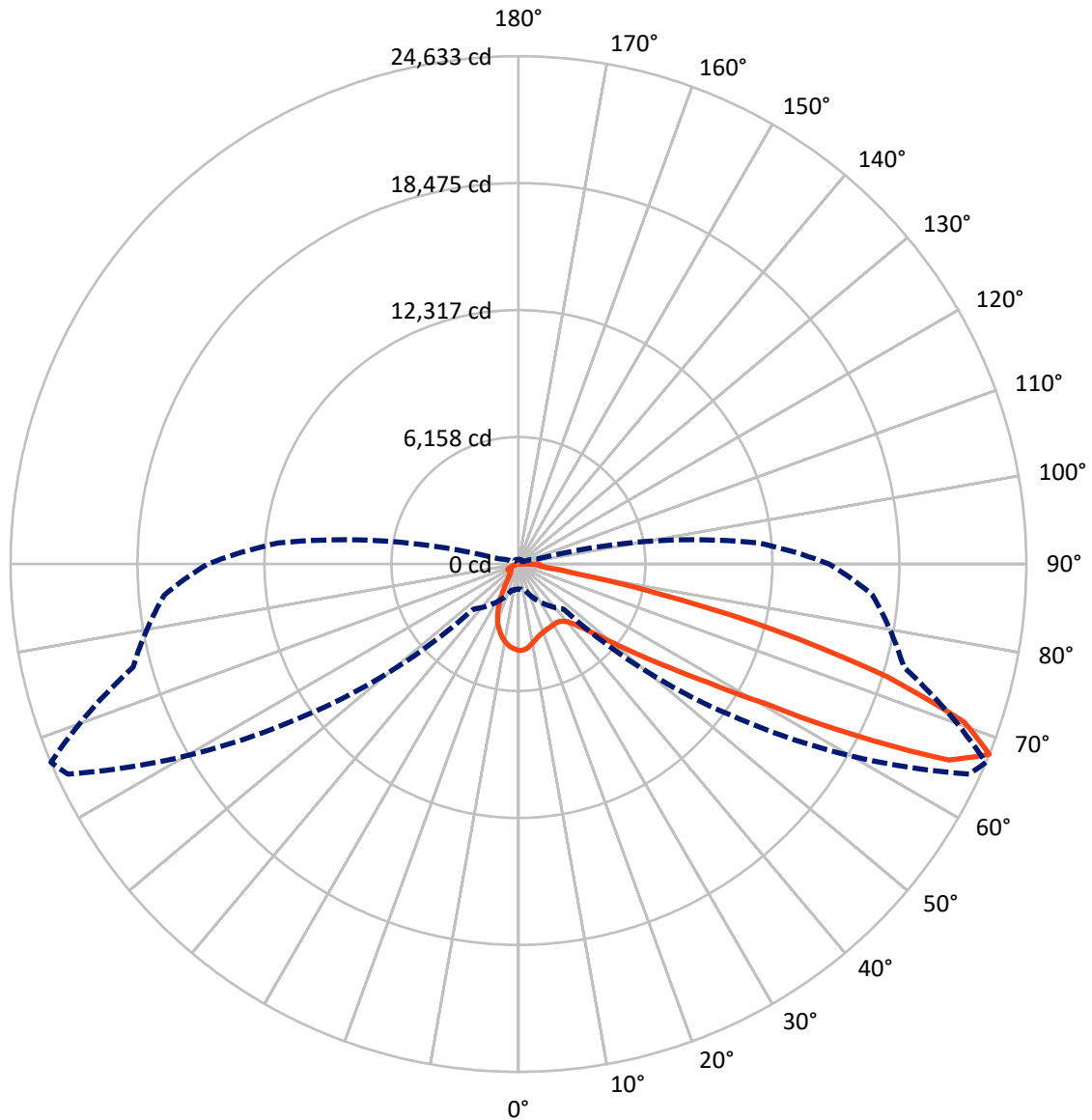
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3221.2	0.0	3221.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	16220.0	0.0	16220.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	19441.2	0.0	19441.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.8
10°-20°	827.8	4.3
20°-30°	1122.1	5.8
30°-40°	1595.2	8.2
40°-50°	2668.8	13.7
50°-60°	4222.0	21.7
60°-70°	5378.4	27.7
70°-80°	2817.2	14.5
80°-90°	451.8	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°	19441.2	100.0
0°-180°	19441.2	100.0



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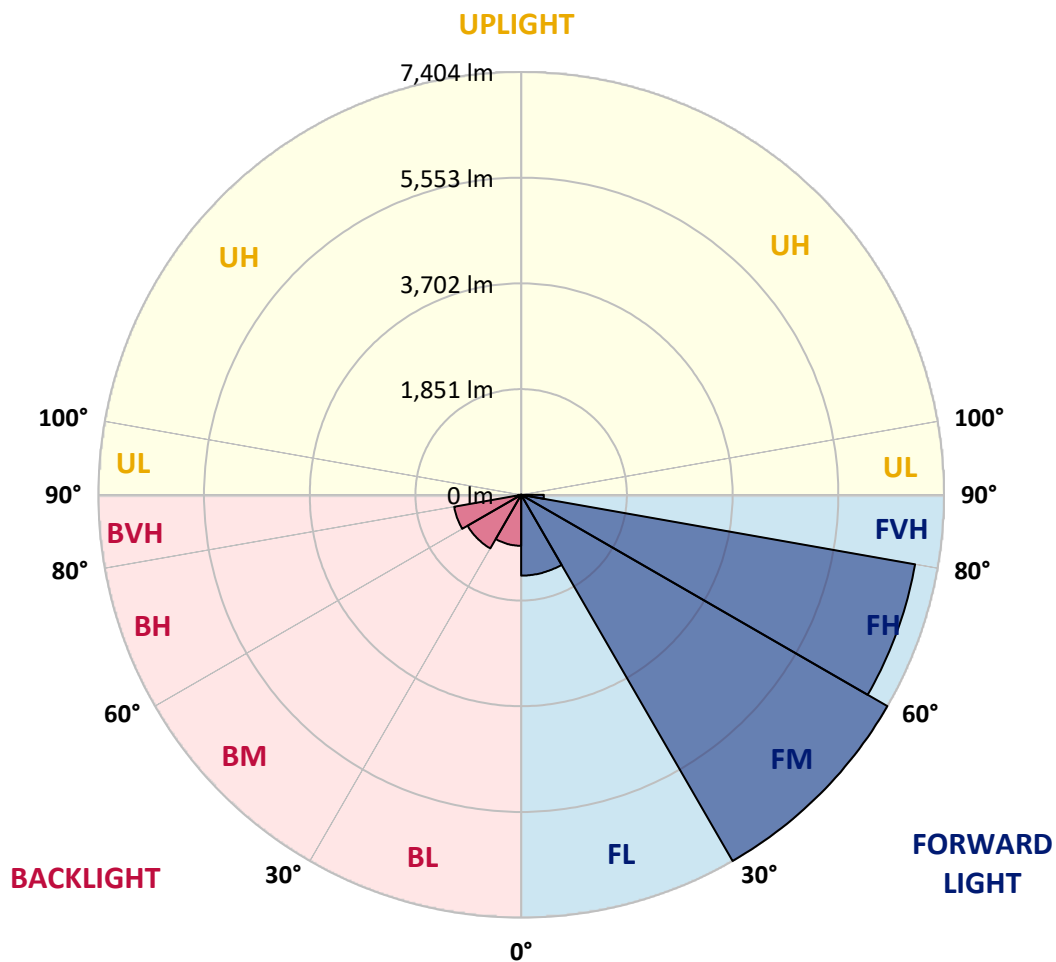
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1414.8	7.3			
FM	(30°-60°)	7403.6	38.1			
FH	(60°-80°)	7004.3	36.0			G3/7500
FVH	(80°-90°)	397.3	2.0			G3/500
BL	(0°-30°)	892.8	4.6	B2/1000		
BM	(30°-60°)	1082.4	5.6	B2/2500		
BH	(60°-80°)	1191.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	54.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4
2.5°	4020.8	4027.6	4048.6	4062.0	4122.5	4148.4	4166.6	4184.8	4187.7	4196.2	4187.7
5°	3599.0	3613.4	3652.7	3696.8	3813.8	3905.8	4002.6	4103.3	4121.5	4186.7	4204.9
7.5°	3272.1	3268.2	3300.9	3353.5	3473.4	3600.9	3770.6	3971.0	4010.3	4157.0	4228.0
10°	3033.4	3030.5	3065.0	3119.7	3233.8	3354.6	3546.3	3820.5	3876.1	4110.0	4250.0
12.5°	2857.0	2857.9	2892.4	2952.8	3068.9	3190.6	3385.3	3674.7	3745.7	4055.4	4273.0
15°	2740.0	2747.6	2775.5	2839.7	2952.8	3074.6	3265.4	3565.5	3645.1	4012.2	4298.8
17.5°	2700.7	2713.2	2722.8	2769.7	2866.5	2988.3	3175.2	3484.9	3569.3	3982.4	4321.9
20°	2737.1	2751.5	2733.3	2749.6	2811.0	2918.4	3104.3	3421.7	3507.9	3948.9	4324.7
22.5°	2893.4	2906.8	2853.1	2806.2	2802.3	2867.5	3045.8	3371.7	3460.9	3924.0	4325.8
25°	3168.6	3177.2	3087.1	2977.8	2871.3	2849.3	3004.6	3337.3	3432.2	3901.9	4307.5
27.5°	3506.1	3512.7	3409.2	3248.1	3034.4	2892.4	2990.2	3317.1	3415.9	3882.8	4276.9
30°	3916.4	3948.0	3809.0	3605.7	3294.1	3020.0	3019.0	3306.6	3397.7	3850.2	4216.4
32.5°	4336.3	4349.7	4253.8	4047.7	3644.1	3244.3	3099.5	3314.3	3392.9	3810.9	4139.7
35°	4761.9	4779.2	4716.8	4551.0	4122.5	3573.2	3256.8	3359.4	3422.6	3797.5	4086.1
37.5°	5313.2	5336.2	5249.9	5058.2	4704.4	4019.0	3518.4	3472.5	3513.7	3835.9	4069.7
40°	6184.7	6174.1	5922.0	5636.3	5341.0	4589.4	3892.3	3664.2	3688.1	3959.5	4119.6
42.5°	7199.0	7173.1	6738.8	6290.1	6040.8	5279.7	4387.0	3996.9	3992.1	4203.0	4295.1
45°	8008.2	7987.0	7595.9	7042.7	6843.3	6065.8	5026.6	4492.5	4457.1	4589.4	4619.1
47.5°	8446.3	8447.2	8222.0	7770.3	7765.6	7064.8	5848.1	5209.7	5148.3	5210.6	5179.0
50°	8292.9	8313.0	8289.1	8145.2	8607.3	8374.4	6921.0	6209.6	6085.9	6147.3	6025.5
52.5°	7550.8	7576.7	7718.6	7939.1	8961.0	9957.2	8497.0	7452.1	7308.3	7286.3	7151.0
55°	6235.5	6267.1	6556.6	7155.8	8666.7	11020.5	10984.0	9035.9	8806.8	8598.7	8541.2
57.5°	4297.9	4350.6	4816.6	5706.2	7714.8	11341.6	13945.5	11293.7	10827.7	10101.0	10114.4
60°	2422.7	2484.0	3033.4	3841.6	5793.5	10992.6	16198.4	14713.4	13729.7	11860.3	11959.9
62.5°	1540.7	1606.9	2023.8	2669.1	3476.3	9113.6	17121.6	19467.7	18218.4	14028.8	14126.6
65°	1247.3	1276.0	1472.5	2203.1	2524.3	5490.6	16420.8	23384.0	22918.1	16781.3	16325.0
67.5°	1217.5	1227.1	1328.8	1849.4	2420.7	3086.1	13098.0	24116.5	24633.2	19351.7	17240.5
70°	1203.2	1236.7	1497.5	1765.0	2318.2	2602.9	7871.0	22108.9	22924.7	20023.8	16022.1
72.5°	583.9	582.0	753.5	1596.2	2611.5	2699.8	4043.8	17888.6	18707.4	17347.9	13166.0
75°	470.8	430.5	411.3	584.8	2510.8	2788.0	2577.0	12309.0	12901.5	11631.2	8093.5
77.5°	446.7	398.8	365.3	366.2	1061.3	2956.6	2183.0	6812.6	6985.2	5253.8	2217.6
80°	370.1	325.9	302.0	340.3	513.8	2815.8	2360.4	3083.2	2829.2	1290.5	738.2
82.5°	257.0	233.9	227.2	285.7	411.3	2006.6	2744.8	1656.7	1389.2	646.2	455.4
85°	164.0	139.9	155.3	208.1	320.2	926.1	2827.2	1291.4	1026.7	410.3	257.0
87.5°	75.7	61.4	76.7	115.1	209.0	319.3	2690.2	1450.5	1057.4	216.7	162.0
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°	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4	4193.4
2.5°	4195.3	4177.1	4162.7	4135.9	4106.1	4077.4	4051.5	4019.0	4009.4	4000.8	4014.2
5°	4208.7	4190.5	4137.8	4055.4	3964.2	3878.9	3793.6	3720.8	3675.7	3650.8	3665.1
7.5°	4228.9	4203.0	4093.7	3942.2	3778.3	3628.7	3474.4	3350.7	3259.6	3216.5	3228.9
10°	4247.1	4197.3	4019.0	3791.7	3552.0	3329.6	3086.1	2884.7	2735.2	2656.6	2675.7
12.5°	4254.8	4175.2	3914.4	3603.9	3275.0	2949.0	2590.4	2289.4	2074.6	1996.1	1979.7
15°	4262.4	4150.3	3799.3	3390.1	2940.4	2479.2	1976.9	1616.4	1438.1	1398.8	1390.1
17.5°	4264.4	4107.1	3669.0	3158.1	2548.3	1920.3	1351.8	1122.7	1123.6	1186.9	1194.6
20°	4244.2	4042.9	3510.8	2869.5	2078.5	1327.8	928.0	888.7	1033.5	1191.6	1210.9
22.5°	4198.2	3957.6	3331.5	2532.9	1540.7	874.3	718.1	761.2	948.2	1141.8	1163.9
25°	4139.7	3854.1	3119.7	2142.8	1020.1	625.1	602.1	654.8	781.3	910.7	923.2
27.5°	4060.2	3731.3	2881.9	1696.0	662.5	514.9	530.2	565.7	617.5	674.9	680.7
30°	3957.6	3584.6	2627.9	1236.7	500.4	463.1	485.1	504.3	526.3	558.9	561.8
32.5°	3839.6	3443.7	2367.1	854.2	443.9	436.2	453.5	463.1	480.3	500.4	502.4
35°	3740.9	3309.5	2096.7	604.0	419.9	416.0	427.6	431.4	447.7	469.7	471.7
37.5°	3684.4	3200.2	1817.7	487.0	403.7	397.8	404.6	404.6	427.6	460.2	464.9
40°	3688.1	3139.7	1538.7	440.1	390.2	382.5	383.5	383.5	413.2	448.7	451.5
42.5°	3792.7	3155.1	1291.4	421.9	379.6	371.0	366.2	369.1	394.0	417.1	419.0
45°	4038.1	3263.4	1059.4	410.3	369.1	366.2	355.7	354.8	364.3	374.8	374.8
47.5°	4440.7	3477.2	902.1	402.6	360.5	359.6	347.1	334.6	333.6	337.5	337.5
50°	5095.5	3845.4	796.7	394.0	354.8	347.1	332.7	313.5	306.8	309.6	309.6
52.5°	6077.2	4502.1	756.5	382.5	342.3	329.8	313.5	294.3	288.6	289.5	289.5
55°	7364.8	5510.7	750.6	369.1	328.9	308.7	295.3	280.9	274.2	276.1	276.1
57.5°	8938.1	6905.6	853.2	348.0	310.7	287.7	280.0	270.4	265.6	268.4	267.5
60°	10850.7	8731.0	1265.5	325.9	292.4	268.4	268.4	260.8	257.0	259.8	258.8
62.5°	13053.9	10827.7	1779.4	309.6	273.2	253.1	257.0	253.1	249.3	251.1	250.2
65°	15007.7	12193.9	1666.3	297.2	254.1	238.8	245.4	243.5	240.6	242.5	241.6
67.5°	15064.3	11687.7	935.7	283.8	235.9	224.3	233.9	232.9	231.1	232.9	232.0
70°	13444.0	9869.0	527.3	258.8	216.7	207.0	220.5	219.5	217.6	221.5	220.5
72.5°	10771.2	7161.6	385.4	228.2	197.5	188.8	204.2	203.3	203.3	209.0	206.1
75°	6198.1	3685.3	307.7	195.6	177.4	170.6	184.0	185.1	187.0	194.7	188.8
77.5°	1766.9	1148.6	251.1	165.8	152.4	149.6	163.0	164.9	165.8	174.5	166.8
80°	656.7	529.2	207.0	139.0	124.6	125.6	138.1	141.0	141.9	150.5	141.0
82.5°	419.0	348.9	167.8	107.4	97.8	96.9	112.2	116.0	116.0	116.9	111.2
85°	244.5	209.0	126.5	77.6	69.0	66.2	83.4	90.1	87.3	85.3	81.5
87.5°	164.0	143.8	77.6	43.2	37.4	35.5	48.9	53.7	51.8	48.9	46.0
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)