

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: P191873

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191873
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-05-LED-E1-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA 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: 19202 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

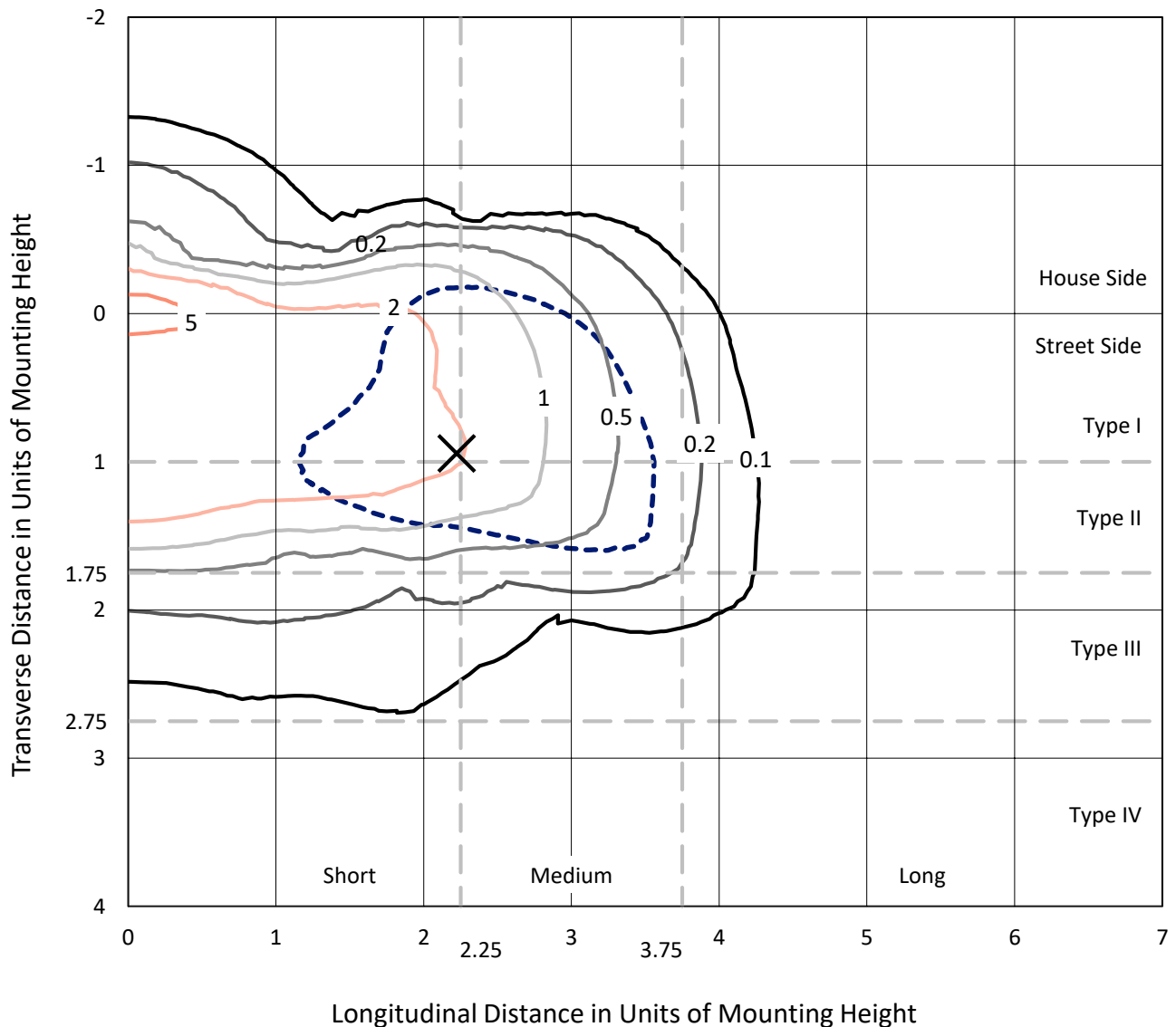
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

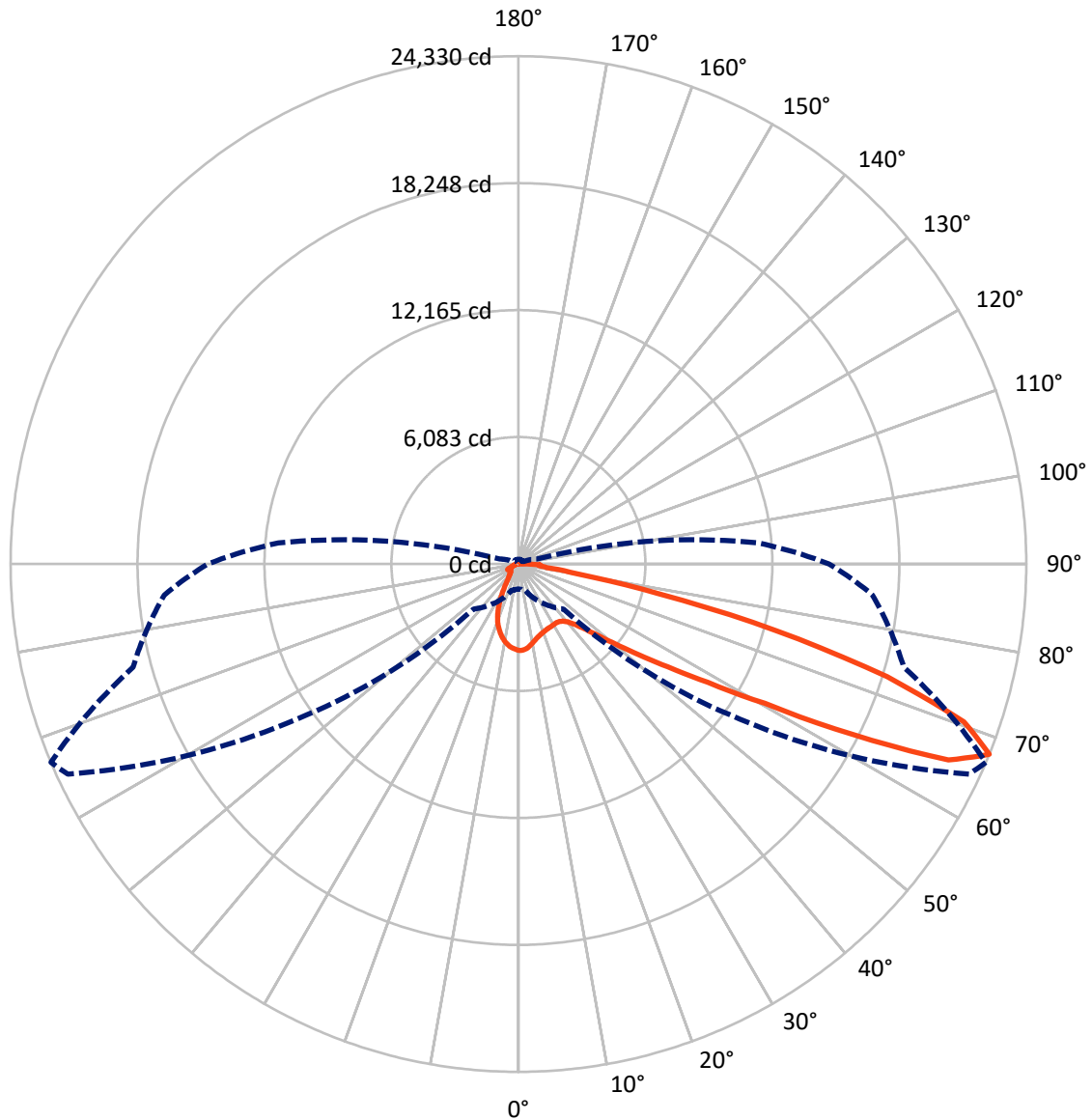
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3181.6	0.0	3181.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	16020.4	0.0	16020.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	19202.0	0.0	19202.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.4	1.8
10°-20°	817.6	4.3
20°-30°	1108.3	5.8
30°-40°	1575.6	8.2
40°-50°	2636.0	13.7
50°-60°	4170.1	21.7
60°-70°	5312.3	27.7
70°-80°	2782.6	14.5
80°-90°	446.3	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°	19202.0	100.0
0°-180°	19202.0	100.0



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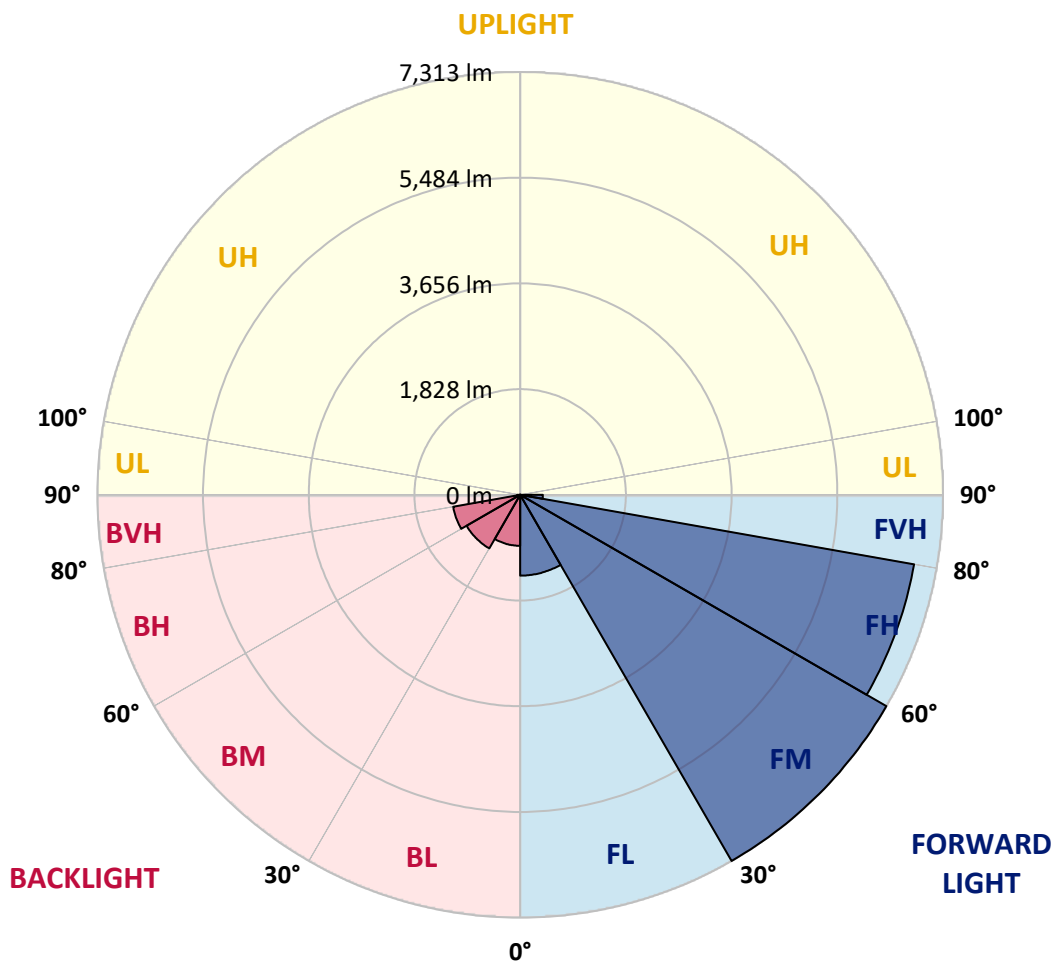
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.4	7.3			
FM (30°-60°)	7312.5	38.1			
FH (60°-80°)	6918.1	36.0			G3/7500
FVH (80°-90°)	392.4	2.0			G3/500
BL (0°-30°)	881.8	4.6	B2/1000		
BM (30°-60°)	1069.1	5.6	B2/2500		
BH (60°-80°)	1176.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	53.9	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°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	3971.4	3978.0	3998.8	4012.1	4071.8	4097.3	4115.3	4133.3	4136.1	4144.7	4136.1
5°	3554.7	3568.9	3607.8	3651.3	3766.8	3857.7	3953.4	4052.8	4070.8	4135.2	4153.2
7.5°	3231.8	3228.0	3260.2	3312.3	3430.7	3556.6	3724.2	3922.1	3961.0	4105.8	4175.9
10°	2996.1	2993.2	3027.3	3081.3	3194.0	3313.3	3502.7	3773.5	3828.4	4059.4	4197.7
12.5°	2821.8	2822.8	2856.9	2916.5	3031.1	3151.3	3343.6	3629.5	3699.6	4005.5	4220.4
15°	2706.3	2713.9	2741.3	2804.8	2916.5	3036.8	3225.2	3521.6	3600.2	3962.9	4246.0
17.5°	2667.5	2679.8	2689.3	2735.6	2831.3	2951.5	3136.2	3442.1	3525.4	3933.5	4268.7
20°	2703.5	2717.7	2699.7	2715.8	2776.4	2882.4	3066.1	3379.6	3464.8	3900.4	4271.6
22.5°	2857.8	2871.1	2818.0	2771.6	2767.8	2832.2	3008.4	3330.3	3418.4	3875.7	4272.5
25°	3129.6	3138.1	3049.1	2941.1	2836.0	2814.2	2967.6	3296.2	3390.0	3854.0	4254.5
27.5°	3462.9	3469.5	3367.2	3208.2	2997.0	2856.9	2953.4	3276.3	3373.9	3835.0	4224.2
30°	3868.2	3899.4	3762.1	3561.4	3253.6	2982.8	2981.8	3265.9	3355.9	3802.8	4164.6
32.5°	4282.9	4296.2	4201.5	3997.9	3599.2	3204.4	3061.4	3273.5	3351.1	3764.0	4088.8
35°	4703.3	4720.4	4658.8	4495.0	4071.8	3529.2	3216.7	3318.0	3380.5	3750.7	4035.8
37.5°	5247.8	5270.6	5185.3	4995.9	4646.5	3969.5	3475.2	3429.7	3470.5	3788.6	4019.7
40°	6108.6	6098.2	5849.1	5566.9	5275.3	4532.9	3844.5	3619.1	3642.8	3910.8	4068.9
42.5°	7110.4	7084.8	6655.9	6212.7	5966.5	5214.7	4333.1	3947.7	3943.0	4151.3	4242.2
45°	7909.6	7888.8	7502.4	6956.1	6759.1	5991.2	4964.7	4437.3	4402.2	4532.9	4562.3
47.5°	8342.4	8343.3	8120.8	7674.8	7670.0	6977.8	5776.2	5145.6	5085.0	5146.5	5115.3
50°	8190.9	8210.7	8187.1	8045.0	8501.4	8271.3	6835.8	6133.2	6011.0	6071.6	5951.4
52.5°	7457.9	7483.5	7623.6	7841.4	8850.9	9834.7	8392.5	7360.4	7218.4	7196.6	7063.1
55°	6158.8	6190.0	6476.0	7067.8	8560.1	10884.8	10848.9	8924.7	8698.4	8492.9	8436.1
57.5°	4245.0	4297.1	4757.3	5636.1	7619.9	11202.1	13773.9	11154.7	10694.5	9976.7	9990.0
60°	2392.9	2453.5	2996.1	3794.3	5722.2	10857.4	15999.1	14532.4	13560.8	11714.3	11812.8
62.5°	1521.7	1587.0	1998.9	2636.2	3433.5	9001.4	16911.0	19228.1	17994.3	13856.3	13952.9
65°	1231.9	1260.3	1454.5	2176.0	2493.2	5423.0	16218.8	23096.3	22636.1	16574.9	16124.1
67.5°	1202.6	1212.1	1312.4	1826.6	2391.0	3048.1	12936.8	23819.8	24330.1	19113.6	17028.4
70°	1188.4	1221.5	1479.1	1743.3	2289.7	2570.9	7774.2	21836.9	22642.7	19777.4	15824.9
72.5°	576.7	574.8	744.3	1576.6	2579.4	2666.5	3994.1	17668.6	18477.2	17134.5	13004.0
75°	464.9	425.2	406.2	577.6	2480.0	2753.6	2545.3	12157.5	12742.7	11488.0	7993.9
77.5°	441.3	393.9	360.8	361.7	1048.2	2920.3	2156.1	6728.8	6899.3	5189.1	2190.2
80°	365.5	322.0	298.3	336.2	507.5	2781.1	2331.3	3045.3	2794.4	1274.6	729.1
82.5°	253.8	231.0	224.4	282.2	406.2	1981.9	2711.0	1636.3	1372.1	638.2	449.8
85°	161.9	138.3	153.4	205.5	316.3	914.7	2792.5	1275.5	1014.2	405.3	253.8
87.5°	74.8	60.6	75.8	113.6	206.4	315.3	2657.1	1432.7	1044.5	214.0	160.0
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°	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8	4141.8
2.5°	4143.7	4125.7	4111.5	4085.0	4055.7	4027.2	4001.7	3969.5	3960.0	3951.5	3964.8
5°	4157.0	4139.0	4086.9	4005.5	3915.5	3831.2	3747.0	3675.0	3630.5	3605.9	3620.1
7.5°	4176.9	4151.3	4043.3	3893.7	3731.8	3584.1	3431.6	3309.5	3219.5	3176.9	3189.2
10°	4194.9	4145.6	3969.5	3745.1	3508.3	3288.7	3048.1	2849.3	2701.6	2623.9	2642.9
12.5°	4202.4	4123.8	3866.3	3559.5	3234.7	2912.7	2558.6	2261.2	2049.1	1971.5	1955.4
15°	4210.0	4099.2	3752.6	3348.3	2904.2	2448.7	1952.5	1596.5	1420.4	1381.6	1373.0
17.5°	4211.9	4056.6	3623.9	3119.2	2516.9	1896.7	1335.2	1108.8	1109.8	1172.3	1179.9
20°	4192.0	3993.2	3467.6	2834.1	2052.9	1311.5	916.6	877.8	1020.8	1177.0	1196.0
22.5°	4146.6	3908.9	3290.5	2501.8	1521.7	863.6	709.2	751.9	936.5	1127.8	1149.6
25°	4088.8	3806.6	3081.3	2116.4	1007.5	617.4	594.7	646.7	771.7	899.6	911.9
27.5°	4010.2	3685.4	2846.4	1675.1	654.3	508.5	523.6	558.7	609.8	666.6	672.3
30°	3908.9	3540.5	2595.5	1221.5	494.3	457.4	479.1	498.1	519.9	552.1	554.9
32.5°	3792.4	3401.3	2337.9	843.7	438.4	430.8	447.9	457.4	474.4	494.3	496.2
35°	3694.9	3268.8	2070.9	596.6	414.8	411.0	422.3	426.1	442.2	464.0	465.9
37.5°	3639.0	3160.8	1795.4	481.0	398.7	393.0	399.6	399.6	422.3	454.5	459.3
40°	3642.8	3101.2	1519.8	434.6	385.4	377.8	378.8	378.8	408.1	443.2	446.0
42.5°	3746.0	3116.3	1275.5	416.6	375.0	366.5	361.7	364.6	389.2	411.9	413.8
45°	3988.4	3223.3	1046.3	405.3	364.6	361.7	351.3	350.4	359.8	370.2	370.2
47.5°	4386.1	3434.5	891.1	397.7	356.0	355.1	342.8	330.5	329.5	333.3	333.3
50°	5032.9	3798.1	786.9	389.2	350.4	342.8	328.6	309.6	303.0	305.9	305.9
52.5°	6002.5	4446.7	747.1	377.8	338.1	325.7	309.6	290.7	285.0	286.0	286.0
55°	7274.2	5442.9	741.4	364.6	324.8	304.9	291.7	277.4	270.8	272.7	272.7
57.5°	8828.1	6820.7	842.8	343.7	306.8	284.1	276.5	267.0	262.3	265.1	264.2
60°	10717.2	8623.6	1249.9	322.0	288.8	265.1	265.1	257.6	253.8	256.6	255.7
62.5°	12893.3	10694.5	1757.5	305.9	269.9	250.0	253.8	250.0	246.2	248.1	247.1
65°	14823.1	12043.9	1645.7	293.5	250.9	235.8	242.4	240.5	237.7	239.6	238.6
67.5°	14878.9	11543.9	924.2	280.3	232.9	221.6	231.0	230.1	228.2	230.1	229.2
70°	13278.6	9747.6	520.8	255.7	214.0	204.5	217.8	216.8	215.0	218.7	217.8
72.5°	10638.6	7073.5	380.7	225.4	195.1	186.5	201.7	200.7	200.7	206.4	203.6
75°	6121.8	3640.0	304.0	193.2	175.2	168.6	181.8	182.8	184.6	192.2	186.5
77.5°	1745.2	1134.4	248.1	163.8	150.6	147.7	161.0	162.9	163.8	172.3	164.8
80°	648.6	522.7	204.5	137.3	123.1	124.0	136.4	139.2	140.1	148.7	139.2
82.5°	413.8	344.7	165.7	106.1	96.6	95.6	110.8	114.6	114.6	115.5	109.8
85°	241.5	206.4	125.0	76.7	68.2	65.3	82.4	89.0	86.2	84.3	80.5
87.5°	161.9	142.0	76.7	42.6	36.9	35.0	48.3	53.0	51.1	48.3	45.5
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)