

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: P193623

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193623  
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-SL2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 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: 19214 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

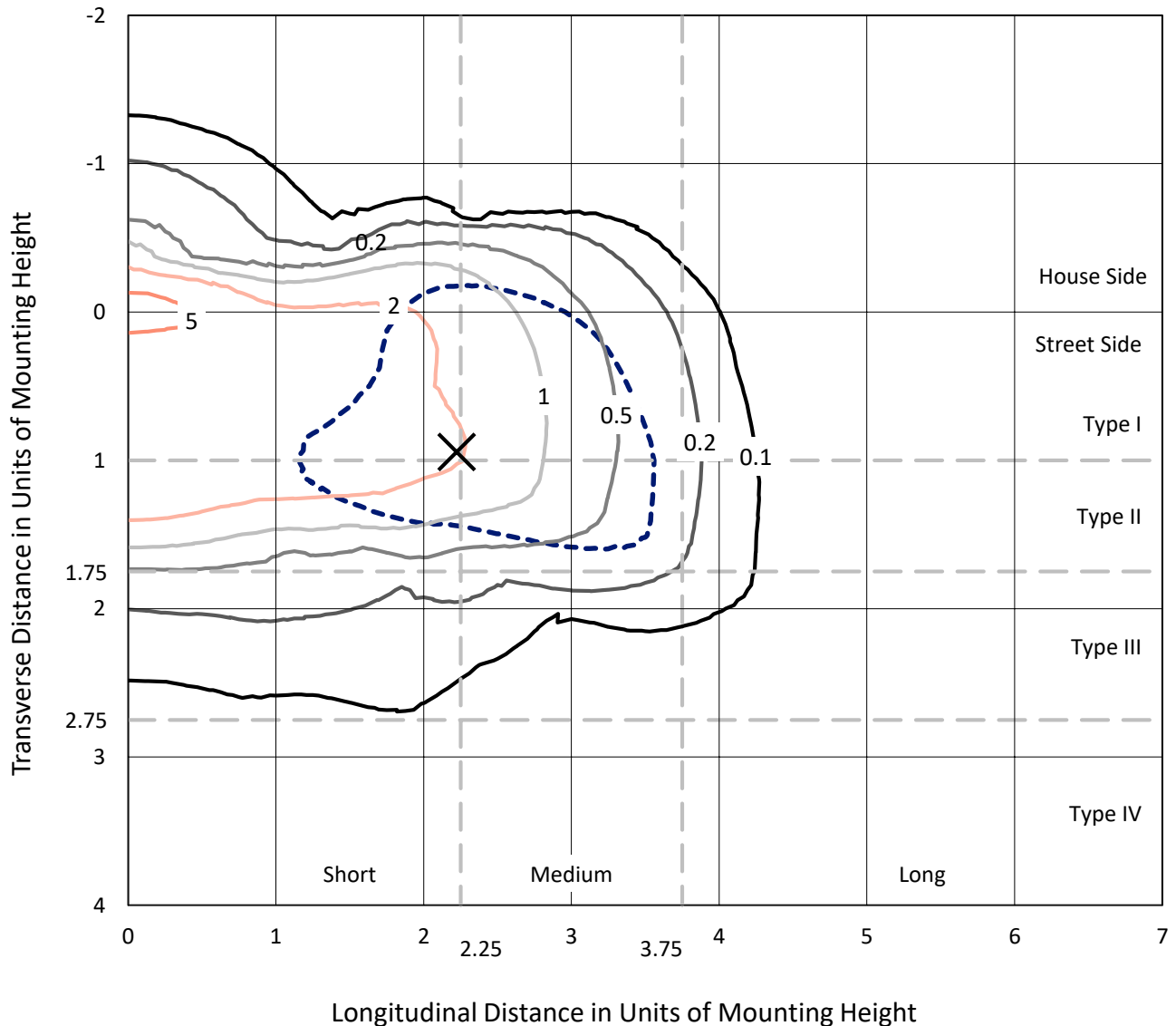
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

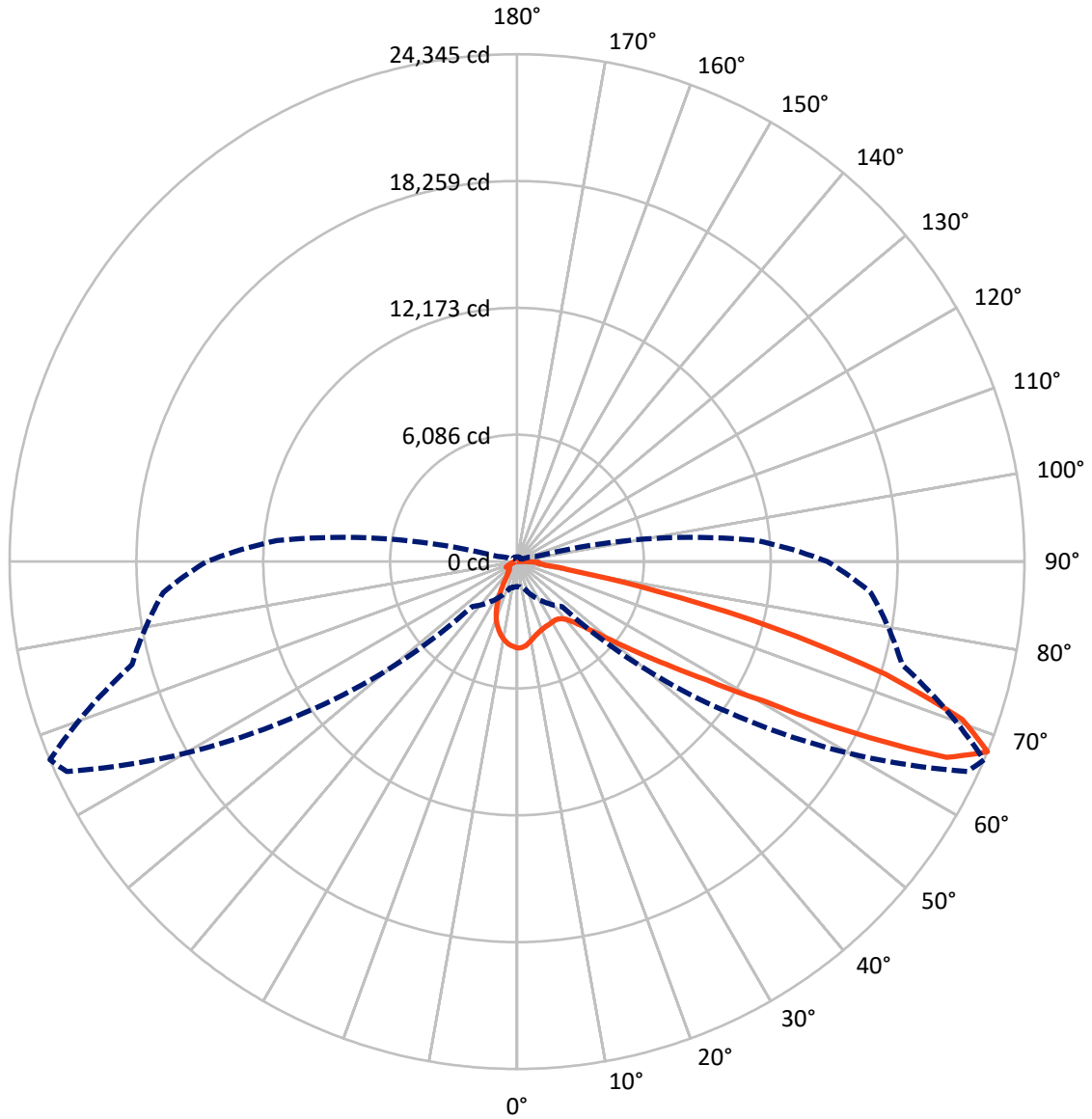
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3183.5	0.0	3183.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	16030.5	0.0	16030.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	19214.0	0.0	19214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.6	1.8
10°-20°	818.1	4.3
20°-30°	1109.0	5.8
30°-40°	1576.5	8.2
40°-50°	2637.6	13.7
50°-60°	4172.7	21.7
60°-70°	5315.6	27.7
70°-80°	2784.3	14.5
80°-90°	446.5	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°	19214.0	100.0
0°-180°	19214.0	100.0

**Coefficient of Utilization**



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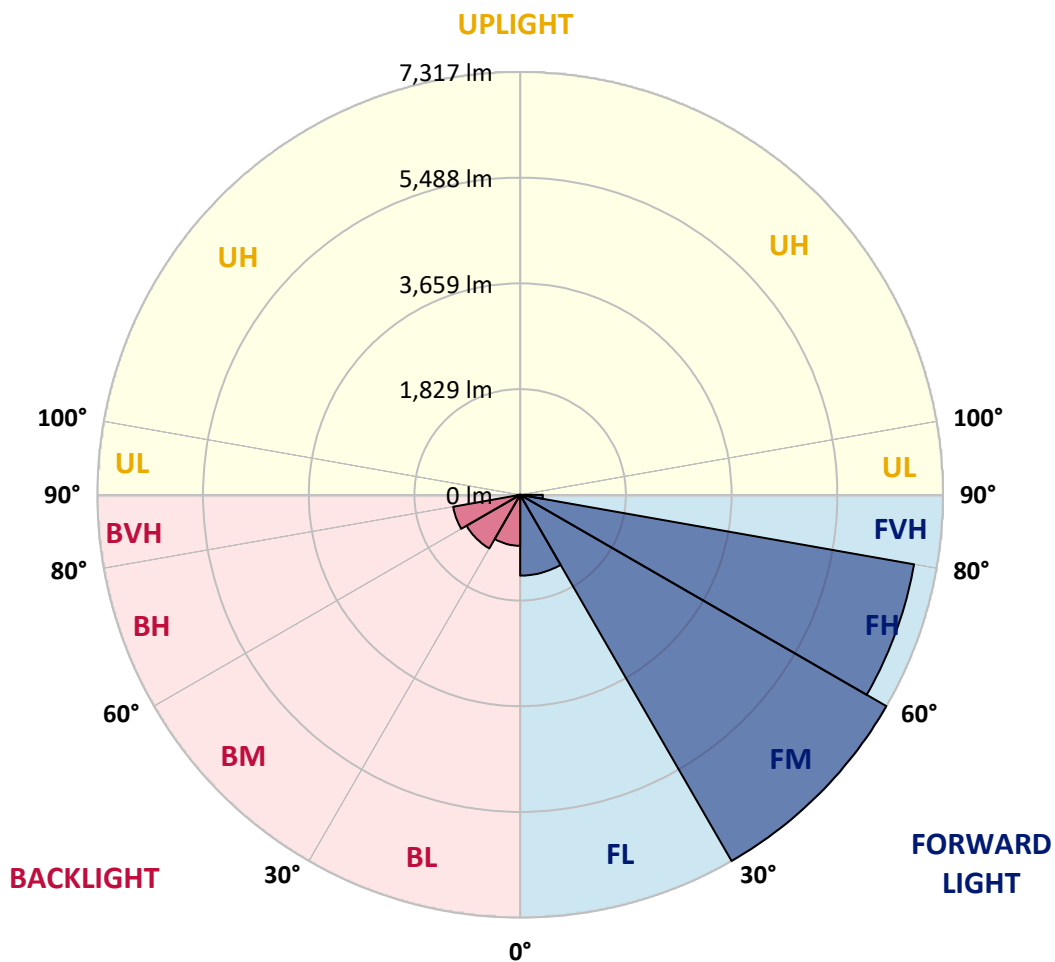
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.3	7.3			
FM (30°-60°)	7317.1	38.1			
FH (60°-80°)	6922.4	36.0			G3/7500
FVH (80°-90°)	392.7	2.0			G3/500
BL (0°-30°)	882.4	4.6	B2/1000		
BM (30°-60°)	1069.8	5.6	B2/2500		
BH (60°-80°)	1177.5	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°	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4
2.5°	3973.9	3980.5	4001.3	4014.6	4074.3	4099.9	4117.9	4135.9	4138.7	4147.3	4138.7
5°	3557.0	3571.2	3610.0	3653.6	3769.2	3860.2	3955.9	4055.3	4073.3	4137.8	4155.8
7.5°	3233.9	3230.1	3262.3	3314.4	3432.8	3558.9	3726.6	3924.6	3963.4	4108.4	4178.5
10°	2997.9	2995.1	3029.2	3083.2	3196.0	3315.3	3504.8	3775.8	3830.8	4062.0	4200.3
12.5°	2823.6	2824.5	2858.6	2918.3	3033.0	3153.3	3345.7	3631.8	3701.9	4008.0	4223.1
15°	2708.0	2715.6	2743.0	2806.5	2918.3	3038.7	3227.2	3523.8	3602.4	3965.3	4248.6
17.5°	2669.1	2681.5	2690.9	2737.4	2833.1	2953.4	3138.2	3444.2	3527.6	3936.0	4271.4
20°	2705.1	2719.4	2701.4	2717.5	2778.1	2884.2	3068.0	3381.7	3466.9	3902.8	4274.2
22.5°	2859.6	2872.9	2819.8	2773.4	2769.6	2834.0	3010.2	3332.4	3420.5	3878.2	4275.2
25°	3131.5	3140.1	3051.0	2943.0	2837.8	2816.0	2969.5	3298.3	3392.1	3856.4	4257.2
27.5°	3465.0	3471.7	3369.3	3210.2	2998.9	2858.6	2955.3	3278.4	3376.0	3837.4	4226.8
30°	3870.6	3901.8	3764.5	3563.6	3255.6	2984.7	2983.7	3268.0	3358.0	3805.2	4167.2
32.5°	4285.6	4298.9	4204.1	4000.4	3601.5	3206.4	3063.3	3275.5	3353.2	3766.4	4091.4
35°	4706.3	4723.3	4661.8	4497.8	4074.3	3531.4	3218.7	3320.1	3382.6	3753.1	4038.3
37.5°	5251.1	5273.8	5188.6	4999.1	4649.4	3972.0	3477.4	3431.9	3472.6	3791.0	4022.2
40°	6112.4	6102.0	5852.8	5570.4	5278.6	4535.7	3846.9	3621.4	3645.1	3913.2	4071.5
42.5°	7114.9	7089.3	6660.1	6216.6	5970.3	5217.9	4335.8	3950.2	3945.4	4153.9	4244.8
45°	7914.6	7893.7	7507.1	6960.4	6763.3	5994.9	4967.8	4440.0	4405.0	4535.7	4565.1
47.5°	8347.6	8348.5	8125.9	7679.6	7674.8	6982.2	5779.8	5148.8	5088.1	5149.7	5118.5
50°	8196.0	8215.9	8192.2	8050.1	8506.8	8276.5	6840.1	6137.0	6014.8	6075.4	5955.1
52.5°	7462.6	7488.2	7628.4	7846.3	8856.4	9840.8	8397.8	7365.0	7222.9	7201.1	7067.5
55°	6162.6	6193.9	6480.0	7072.2	8565.5	10891.6	10855.6	8930.3	8703.8	8498.2	8441.4
57.5°	4247.7	4299.8	4760.3	5639.6	7624.6	11209.1	13782.5	11161.7	10701.2	9983.0	9996.2
60°	2394.4	2455.0	2997.9	3796.7	5725.8	10864.2	16009.1	14541.4	13569.3	11721.7	11820.2
62.5°	1522.7	1588.0	2000.2	2637.9	3435.7	9007.0	16921.6	19240.2	18005.5	13864.9	13961.6
65°	1232.7	1261.1	1455.4	2177.4	2494.8	5426.4	16229.0	23110.7	22650.2	16585.2	16134.2
67.5°	1203.3	1212.8	1313.3	1827.7	2392.5	3050.0	12944.9	23834.6	24345.3	19125.5	17039.1
70°	1189.1	1222.3	1480.0	1744.4	2291.1	2572.5	7779.1	21850.5	22656.9	19789.7	15834.8
72.5°	577.0	575.1	744.7	1577.6	2581.0	2668.2	3996.6	17679.6	18488.8	17145.2	13012.2
75°	465.2	425.4	406.5	578.0	2481.5	2755.4	2546.9	12165.1	12750.7	11495.2	7998.9
77.5°	441.5	394.2	361.0	361.9	1048.9	2922.1	2157.5	6733.0	6903.6	5192.4	2191.6
80°	365.7	322.2	298.5	336.4	507.9	2782.8	2332.8	3047.2	2796.1	1275.3	729.6
82.5°	253.9	231.2	224.6	282.4	406.5	1983.1	2712.7	1637.3	1372.9	638.6	450.1
85°	162.0	138.3	153.5	205.6	316.5	915.3	2794.2	1276.3	1014.8	405.5	253.9
87.5°	74.9	60.6	75.8	113.7	206.6	315.5	2658.7	1433.6	1045.1	214.1	160.1
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°	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4
2.5°	4146.3	4128.3	4114.1	4087.6	4058.2	4029.8	4004.2	3972.0	3962.5	3954.0	3967.2
5°	4159.6	4141.6	4089.5	4008.0	3918.0	3833.6	3749.3	3677.3	3632.8	3608.1	3622.3
7.5°	4179.5	4153.9	4045.9	3896.2	3734.1	3586.3	3433.8	3311.6	3221.5	3178.9	3191.2
10°	4197.5	4148.2	3972.0	3747.4	3510.5	3290.7	3050.0	2851.1	2703.2	2625.6	2644.5
12.5°	4205.1	4126.4	3868.7	3561.7	3236.7	2914.5	2560.2	2262.7	2050.4	1972.7	1956.6
15°	4212.6	4101.8	3755.0	3350.4	2906.0	2450.3	1953.8	1597.5	1421.3	1382.4	1373.9
17.5°	4214.5	4059.1	3626.1	3121.1	2518.5	1897.9	1336.0	1109.5	1110.5	1173.0	1180.6
20°	4194.6	3995.7	3469.8	2835.9	2054.2	1312.3	917.2	878.3	1021.4	1177.8	1196.7
22.5°	4149.2	3911.3	3292.6	2503.3	1522.7	864.1	709.7	752.3	937.1	1128.5	1150.3
25°	4091.4	3809.0	3083.2	2117.7	1008.2	617.8	595.0	647.1	772.2	900.1	912.5
27.5°	4012.7	3687.7	2848.2	1676.1	654.7	508.8	524.0	559.0	610.2	667.0	672.7
30°	3911.3	3542.7	2597.1	1222.3	494.6	457.6	479.4	498.4	520.2	552.4	555.2
32.5°	3794.8	3403.5	2339.4	844.2	438.7	431.1	448.2	457.6	474.7	494.6	496.5
35°	3697.2	3270.8	2072.2	596.9	415.0	411.2	422.6	426.4	442.5	464.3	466.2
37.5°	3641.3	3162.8	1796.5	481.3	398.9	393.2	399.8	399.8	422.6	454.8	459.5
40°	3645.1	3103.1	1520.8	434.9	385.6	378.1	379.0	379.0	408.4	443.4	446.3
42.5°	3748.4	3118.3	1276.3	416.9	375.2	366.7	361.9	364.8	389.4	412.2	414.1
45°	3990.9	3225.3	1047.0	405.5	364.8	361.9	351.5	350.6	360.1	370.5	370.5
47.5°	4388.9	3436.6	891.6	398.0	356.3	355.3	343.0	330.7	329.7	333.5	333.5
50°	5036.0	3800.5	787.4	389.4	350.6	343.0	328.8	309.8	303.2	306.0	306.0
52.5°	6006.3	4449.5	747.6	378.1	338.3	325.9	309.8	290.9	285.2	286.1	286.1
55°	7278.8	5446.3	741.9	364.8	325.0	305.1	291.8	277.6	271.0	272.9	272.9
57.5°	8833.6	6824.9	843.3	343.9	307.0	284.3	276.7	267.2	262.5	265.3	264.4
60°	10723.9	8629.0	1250.7	322.2	289.0	265.3	265.3	257.7	253.9	256.8	255.8
62.5°	12901.3	10701.2	1758.6	306.0	270.0	250.1	253.9	250.1	246.4	248.2	247.3
65°	14832.3	12051.4	1646.8	293.7	251.1	235.9	242.6	240.7	237.8	239.7	238.8
67.5°	14888.2	11551.1	924.8	280.5	233.1	221.7	231.2	230.2	228.4	230.2	229.3
70°	13286.9	9753.7	521.1	255.8	214.1	204.7	217.9	217.0	215.1	218.9	217.9
72.5°	10645.3	7077.9	380.9	225.5	195.2	186.7	201.8	200.9	200.9	206.6	203.7
75°	6125.7	3642.2	304.2	193.3	175.3	168.7	181.9	182.9	184.8	192.3	186.7
77.5°	1746.3	1135.1	248.2	163.9	150.7	147.8	161.1	163.0	163.9	172.4	164.9
80°	649.0	523.0	204.7	137.4	123.2	124.1	136.4	139.3	140.2	148.8	139.3
82.5°	414.1	344.9	165.8	106.1	96.6	95.7	110.9	114.6	114.6	115.6	109.9
85°	241.6	206.6	125.1	76.7	68.2	65.4	82.4	89.1	86.2	84.3	80.5
87.5°	162.0	142.1	76.7	42.6	37.0	35.1	48.3	53.1	51.2	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)