

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: P193632

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193632  
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-SL2-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA 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: 19194 lumens  
Efficiency: N/A  
Efficacy: 85.3 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

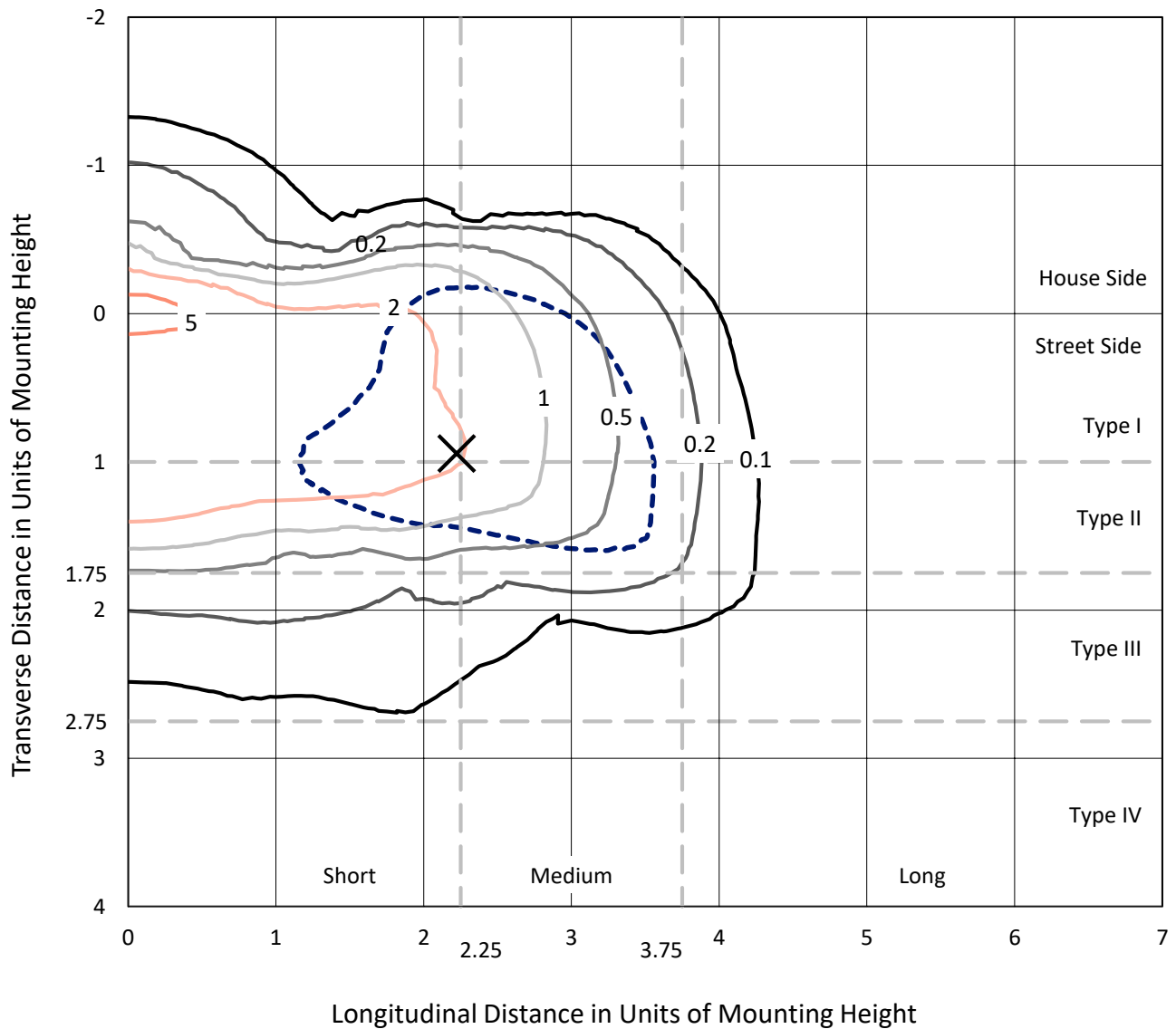
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

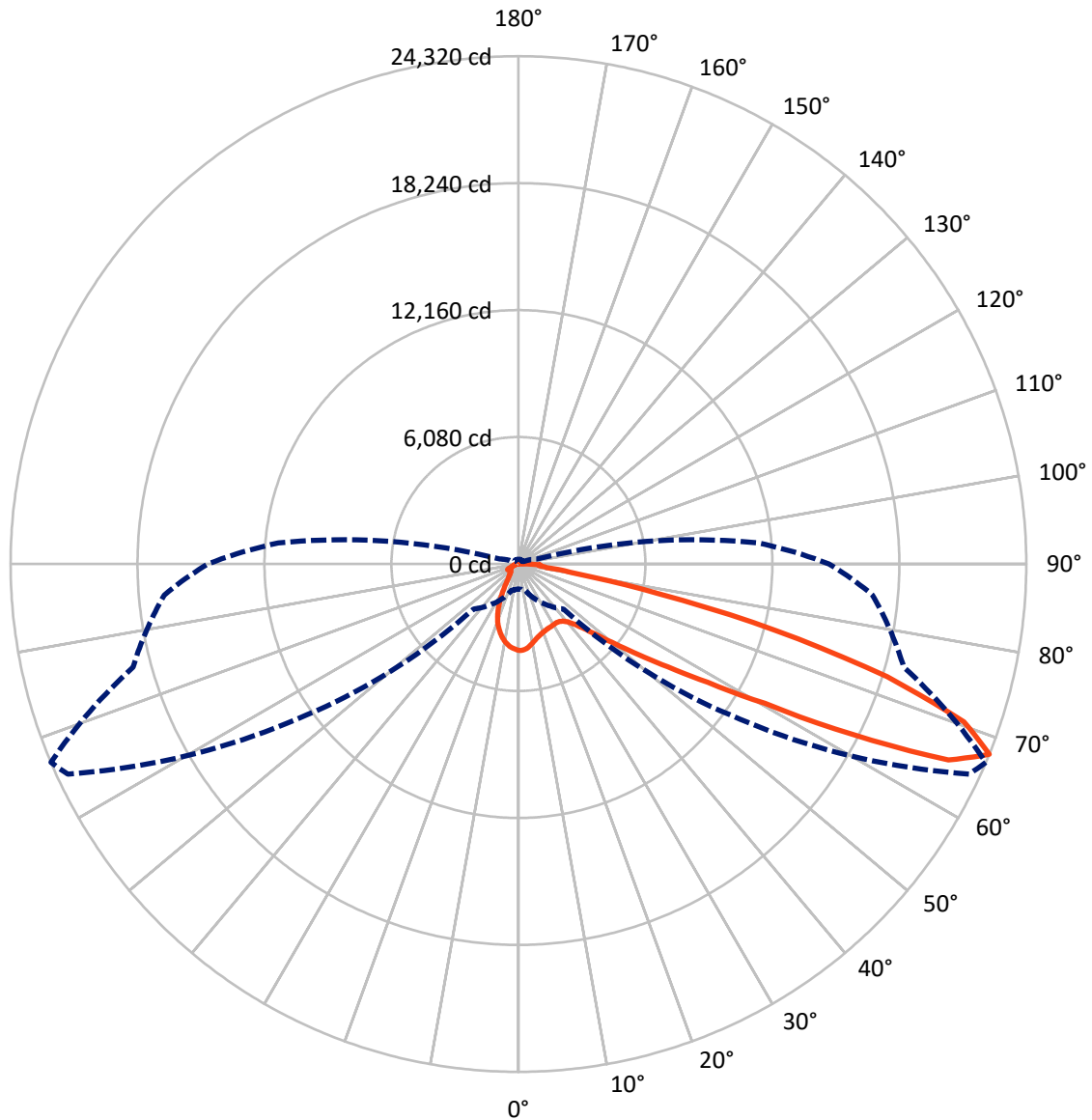
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3180.2	0.0	3180.2
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	16013.8	0.0	16013.8
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	19194.0	0.0	19194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	1.8
10°-20°	817.3	4.3
20°-30°	1107.8	5.8
30°-40°	1574.9	8.2
40°-50°	2634.9	13.7
50°-60°	4168.4	21.7
60°-70°	5310.1	27.7
70°-80°	2781.4	14.5
80°-90°	446.1	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°	19194.0	100.0
0°-180°	19194.0	100.0

**Coefficient of Utilization**



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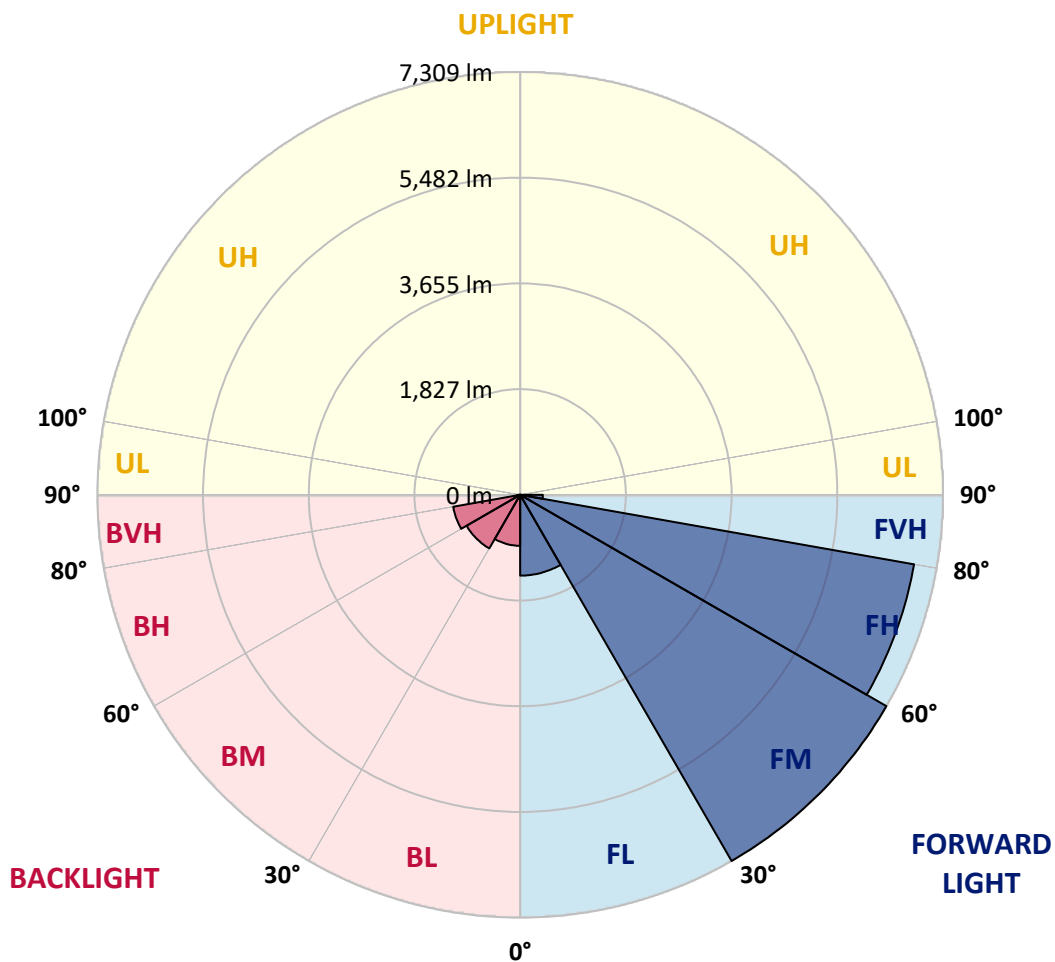
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.9	7.3			
FM	(30°-60°)	7309.5	38.1			
FH	(60°-80°)	6915.2	36.0			G3/7500
FVH	(80°-90°)	392.2	2.0			G3/500
BL	(0°-30°)	881.5	4.6	B2/1000		
BM	(30°-60°)	1068.7	5.6	B2/2500		
BH	(60°-80°)	1176.3	6.1	B3/2500		G3/2500
BVH	(80°-90°)	53.8	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°	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1
2.5°	3969.7	3976.4	3997.2	4010.4	4070.1	4095.6	4113.6	4131.6	4134.4	4142.9	4134.4
5°	3553.3	3567.5	3606.3	3649.8	3765.3	3856.1	3951.7	4051.1	4069.1	4133.5	4151.5
7.5°	3230.5	3226.7	3258.9	3310.9	3429.3	3555.1	3722.7	3920.5	3959.3	4104.1	4174.2
10°	2994.8	2992.0	3026.0	3080.0	3192.6	3311.9	3501.2	3771.9	3826.8	4057.8	4195.9
12.5°	2820.6	2821.6	2855.7	2915.3	3029.8	3150.0	3342.2	3628.0	3698.1	4003.8	4218.7
15°	2705.2	2712.7	2740.2	2803.6	2915.3	3035.5	3223.9	3520.1	3598.7	3961.2	4244.2
17.5°	2666.4	2678.7	2688.1	2734.5	2830.1	2950.3	3134.9	3440.6	3523.9	3931.9	4266.9
20°	2702.3	2716.5	2698.5	2714.6	2775.2	2881.2	3064.8	3378.1	3463.3	3898.7	4269.8
22.5°	2856.6	2869.9	2816.9	2770.5	2766.7	2831.1	3007.1	3328.9	3417.0	3874.1	4270.7
25°	3128.3	3136.8	3047.8	2939.9	2834.8	2813.1	2966.4	3294.9	3388.6	3852.4	4252.7
27.5°	3461.4	3468.1	3365.8	3206.8	2995.8	2855.7	2952.2	3275.0	3372.5	3833.4	4222.4
30°	3866.6	3897.8	3760.5	3559.9	3252.3	2981.6	2980.6	3264.6	3354.5	3801.2	4162.8
32.5°	4281.1	4294.4	4199.7	3996.2	3597.7	3203.0	3060.1	3272.1	3349.8	3762.4	4087.1
35°	4701.4	4718.4	4656.9	4493.2	4070.1	3527.7	3215.3	3316.6	3379.1	3749.2	4034.1
37.5°	5245.6	5268.4	5183.2	4993.9	4644.6	3967.8	3473.7	3428.3	3469.0	3787.0	4018.0
40°	6106.0	6095.6	5846.7	5564.6	5273.1	4531.0	3842.9	3617.6	3641.3	3909.1	4067.2
42.5°	7107.5	7081.9	6653.1	6210.1	5964.1	5212.5	4331.3	3946.1	3941.3	4149.6	4240.4
45°	7906.3	7885.5	7499.3	6953.2	6756.3	5988.7	4962.6	4435.4	4400.4	4531.0	4560.4
47.5°	8338.9	8339.8	8117.4	7671.6	7666.8	6974.9	5773.8	5143.4	5082.8	5144.4	5113.1
50°	8187.4	8207.3	8183.7	8041.7	8497.9	8267.9	6833.0	6130.6	6008.5	6069.1	5948.9
52.5°	7454.8	7480.4	7620.5	7838.2	8847.2	9830.6	8389.0	7357.3	7215.4	7193.6	7060.1
55°	6156.2	6187.4	6473.3	7064.9	8556.6	10880.3	10844.3	8921.0	8694.8	8489.4	8432.6
57.5°	4243.3	4295.3	4755.3	5633.7	7616.7	11197.4	13768.1	11150.1	10690.0	9972.6	9985.8
60°	2391.9	2452.4	2994.8	3792.7	5719.8	10852.9	15992.5	14526.3	13555.2	11709.5	11807.9
62.5°	1521.1	1586.4	1998.1	2635.1	3432.1	8997.7	16904.0	19220.1	17986.8	13850.5	13947.0
65°	1231.4	1259.8	1453.9	2175.1	2492.2	5420.7	16212.1	23086.7	22626.7	16568.0	16117.4
67.5°	1202.1	1211.6	1311.9	1825.8	2390.0	3046.9	12931.4	23809.8	24320.0	19105.6	17021.4
70°	1187.9	1221.0	1478.5	1742.6	2288.7	2569.8	7771.0	21827.8	22633.3	19769.1	15818.3
72.5°	576.4	574.5	744.0	1576.0	2578.3	2665.4	3992.4	17661.2	18469.5	17127.4	12998.6
75°	464.7	425.0	406.1	577.4	2478.9	2752.5	2544.3	12152.4	12737.4	11483.2	7990.6
77.5°	441.1	393.8	360.6	361.6	1047.8	2919.1	2155.2	6726.0	6896.4	5187.0	2189.3
80°	365.4	321.8	298.2	336.0	507.3	2779.9	2330.3	3044.0	2793.2	1274.0	728.8
82.5°	253.7	231.0	224.3	282.1	406.1	1981.1	2709.9	1635.6	1371.5	638.0	449.6
85°	161.9	138.2	153.3	205.4	316.1	914.3	2791.3	1275.0	1013.7	405.1	253.7
87.5°	74.8	60.6	75.7	113.6	206.3	315.2	2655.9	1432.1	1044.0	213.9	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°	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1	4140.1
2.5°	4142.0	4124.0	4109.8	4083.3	4054.0	4025.6	4000.0	3967.8	3958.4	3949.8	3963.1
5°	4155.2	4137.3	4085.2	4003.8	3913.9	3829.6	3745.4	3673.5	3629.0	3604.4	3618.6
7.5°	4175.1	4149.6	4041.7	3892.1	3730.3	3582.6	3430.2	3308.1	3218.2	3175.6	3187.9
10°	4193.1	4143.9	3967.8	3743.5	3506.9	3287.3	3046.9	2848.1	2700.4	2622.8	2641.8
12.5°	4200.7	4122.1	3864.7	3558.0	3233.3	2911.5	2557.5	2260.3	2048.3	1970.7	1954.6
15°	4208.2	4097.5	3751.1	3346.9	2903.0	2447.7	1951.7	1595.8	1419.8	1381.0	1372.5
17.5°	4210.1	4054.9	3622.3	3117.9	2515.9	1895.9	1334.6	1108.4	1109.3	1171.8	1179.4
20°	4190.3	3991.5	3466.2	2832.9	2052.1	1310.9	916.2	877.4	1020.4	1176.5	1195.5
22.5°	4144.8	3907.3	3289.2	2500.7	1521.1	863.2	708.9	751.5	936.1	1127.3	1149.1
25°	4087.1	3805.0	3080.0	2115.5	1007.1	617.1	594.4	646.5	771.4	899.2	911.5
27.5°	4008.5	3683.9	2845.3	1674.4	654.0	508.3	523.4	558.4	609.6	666.4	672.0
30°	3907.3	3539.1	2594.4	1221.0	494.1	457.2	478.9	497.9	519.6	551.8	554.7
32.5°	3790.8	3399.9	2337.0	843.4	438.2	430.7	447.7	457.2	474.2	494.1	496.0
35°	3693.3	3267.4	2070.0	596.3	414.6	410.8	422.1	425.9	442.0	463.8	465.7
37.5°	3637.5	3159.5	1794.6	480.8	398.5	392.8	399.4	399.4	422.1	454.3	459.1
40°	3641.3	3099.9	1519.2	434.5	385.2	377.7	378.6	378.6	408.0	443.0	445.8
42.5°	3744.5	3115.0	1275.0	416.5	374.8	366.3	361.6	364.4	389.0	411.7	413.6
45°	3986.8	3222.0	1045.9	405.1	364.4	361.6	351.2	350.2	359.7	370.1	370.1
47.5°	4384.3	3433.0	890.7	397.5	355.9	354.9	342.6	330.3	329.4	333.2	333.2
50°	5030.8	3796.5	786.6	389.0	350.2	342.6	328.4	309.5	302.9	305.7	305.7
52.5°	6000.0	4444.9	746.8	377.7	337.9	325.6	309.5	290.6	284.9	285.9	285.9
55°	7271.2	5440.6	741.1	364.4	324.7	304.8	291.5	277.3	270.7	272.6	272.6
57.5°	8824.4	6817.8	842.4	343.6	306.7	284.0	276.4	266.9	262.2	265.0	264.1
60°	10712.8	8620.0	1249.4	321.8	288.7	265.0	265.0	257.5	253.7	256.5	255.6
62.5°	12887.9	10690.0	1756.7	305.7	269.8	249.9	253.7	249.9	246.1	248.0	247.0
65°	14816.9	12038.8	1645.1	293.4	250.8	235.7	242.3	240.4	237.6	239.5	238.5
67.5°	14872.7	11539.1	923.8	280.2	232.8	221.5	231.0	230.0	228.1	230.0	229.1
70°	13273.1	9743.5	520.6	255.6	213.9	204.4	217.7	216.8	214.9	218.6	217.7
72.5°	10634.2	7070.5	380.5	225.3	195.0	186.5	201.6	200.7	200.7	206.3	203.5
75°	6119.3	3638.4	303.8	193.1	175.1	168.5	181.7	182.7	184.6	192.1	186.5
77.5°	1744.4	1133.9	248.0	163.7	150.5	147.7	160.9	162.8	163.7	172.3	164.7
80°	648.4	522.5	204.4	137.2	123.0	124.0	136.3	139.1	140.1	148.6	139.1
82.5°	413.6	344.5	165.6	106.0	96.5	95.6	110.7	114.5	114.5	115.5	109.8
85°	241.4	206.3	124.9	76.7	68.1	65.3	82.3	89.0	86.1	84.2	80.5
87.5°	161.9	142.0	76.7	42.6	36.9	35.0	48.3	53.0	51.1	48.3	45.4
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)