

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: P299243

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299243  
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: GLNA-AF-05-LED-E1-SL2-7050-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19133 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

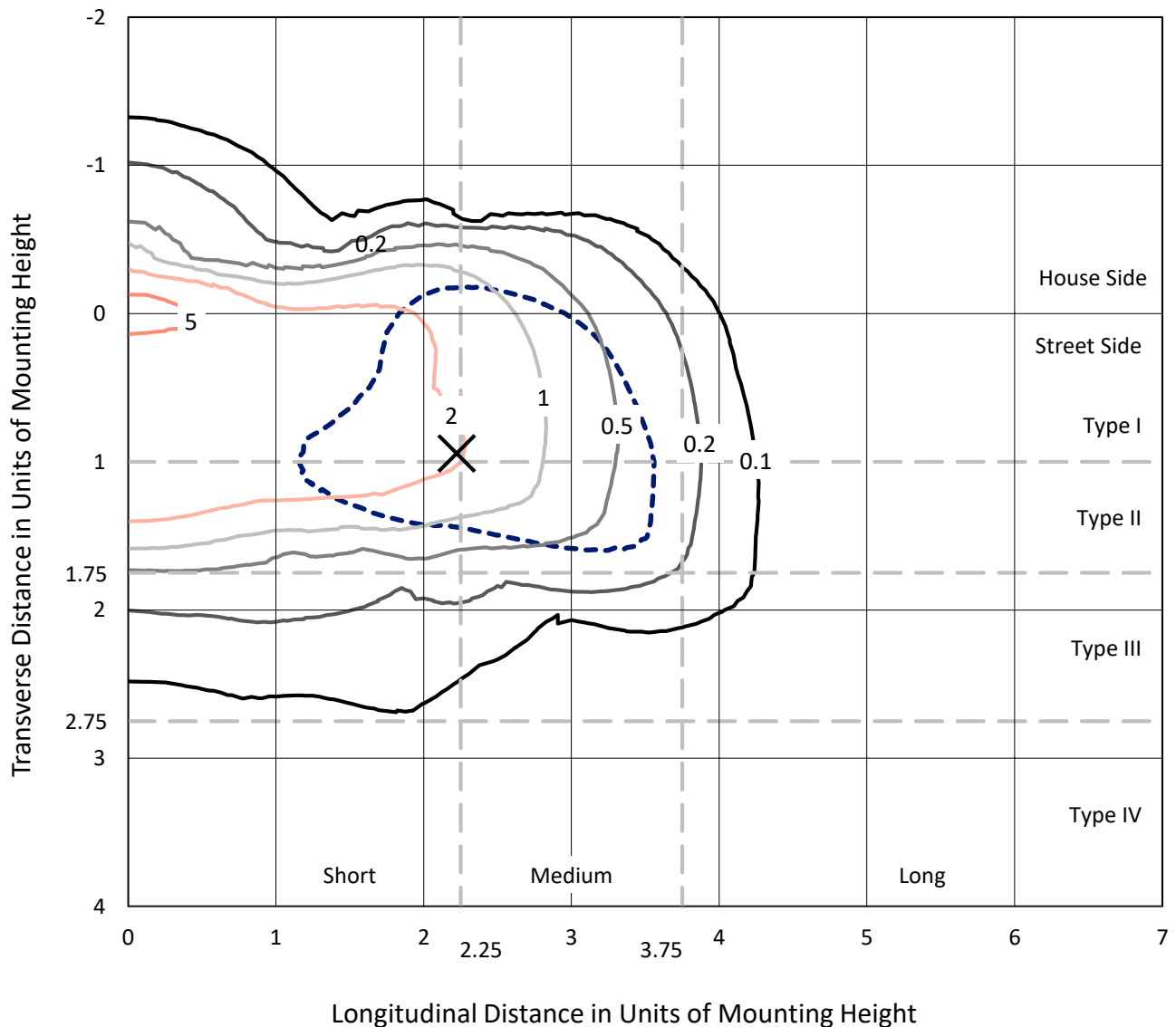
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

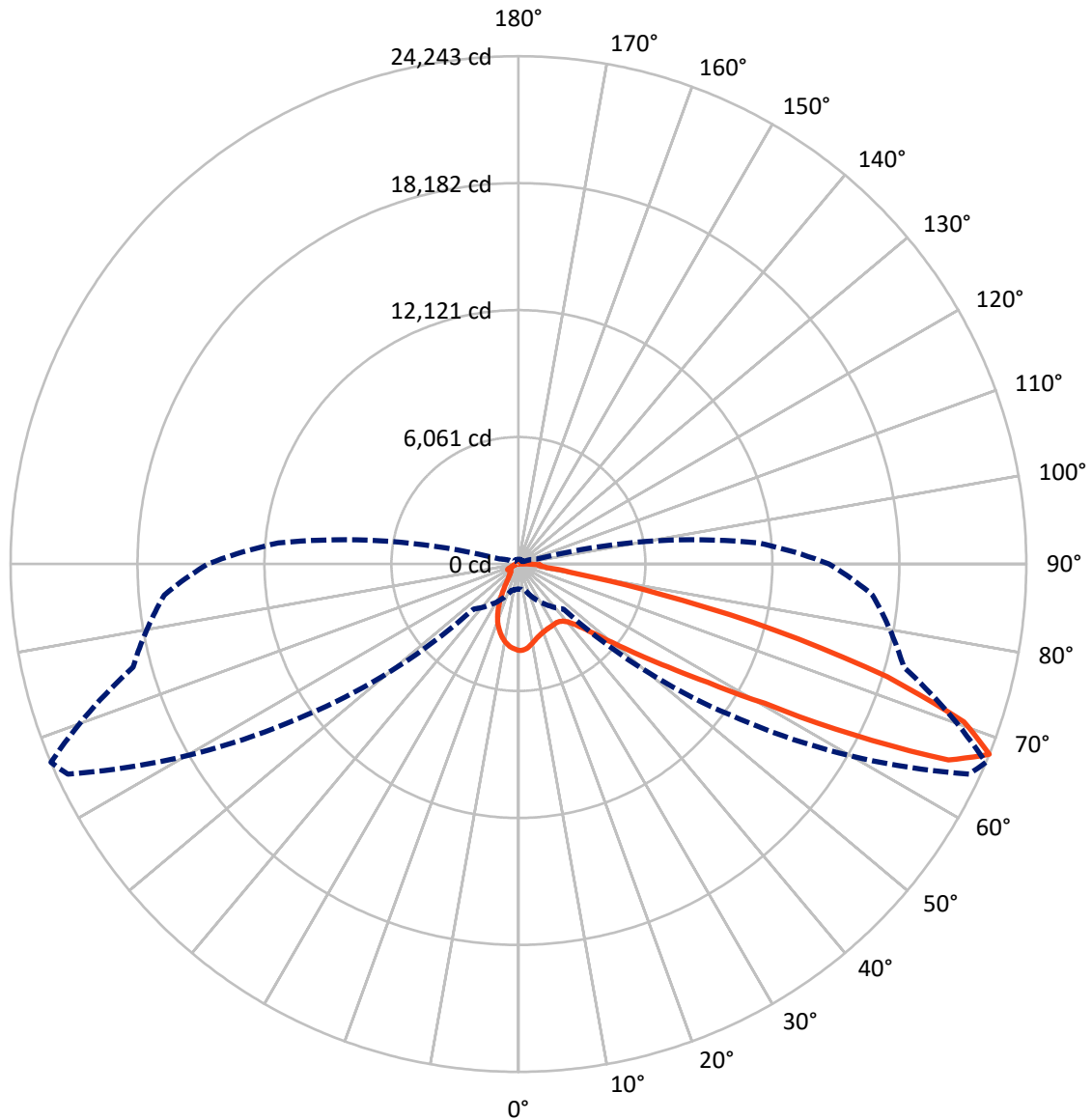
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3170.1	0.0	3170.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	15962.9	0.0	15962.9
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	19133.0	0.0	19133.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.1	1.8
10°-20°	814.7	4.3
20°-30°	1104.3	5.8
30°-40°	1569.9	8.2
40°-50°	2626.5	13.7
50°-60°	4155.1	21.7
60°-70°	5293.2	27.7
70°-80°	2772.6	14.5
80°-90°	444.7	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°	19133.0	100.0
0°-180°	19133.0	100.0

**Coefficient of Utilization**



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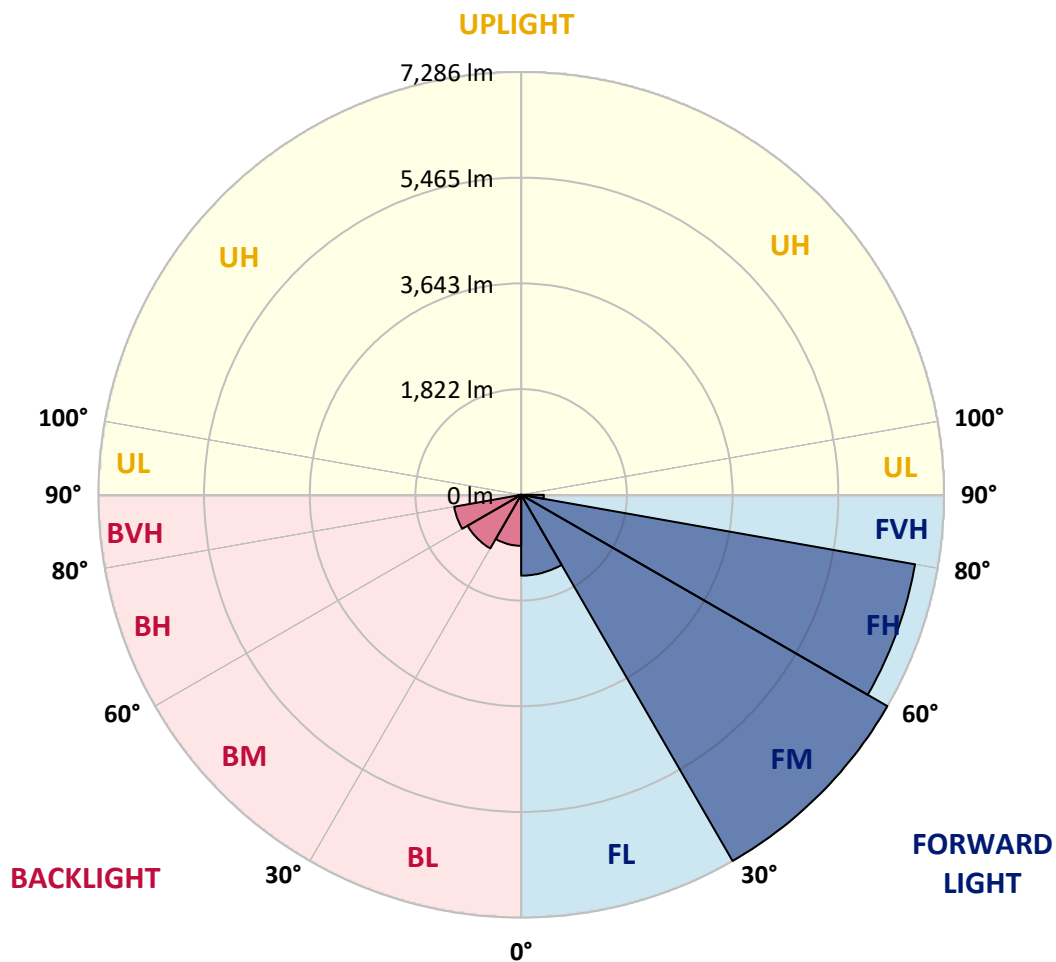
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.4	7.3			
FM (30°-60°)	7286.2	38.1			
FH (60°-80°)	6893.2	36.0			G3/7500
FVH (80°-90°)	391.0	2.0			G3/500
BL (0°-30°)	878.7	4.6	B2/1000		
BM (30°-60°)	1065.3	5.6	B2/2500		
BH (60°-80°)	1172.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	53.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9
2.5°	3957.1	3963.7	3984.5	3997.7	4057.1	4082.6	4100.5	4118.4	4121.3	4129.8	4121.3
5°	3542.0	3556.1	3594.8	3638.2	3753.3	3843.9	3939.2	4038.2	4056.2	4120.3	4138.3
7.5°	3220.2	3216.4	3248.5	3300.4	3418.4	3543.8	3710.8	3908.0	3946.7	4091.1	4160.9
10°	2985.3	2982.5	3016.4	3070.2	3182.5	3301.4	3490.1	3759.9	3814.6	4044.9	4182.6
12.5°	2811.7	2812.6	2846.6	2906.0	3020.2	3140.0	3331.6	3616.5	3686.3	3991.1	4205.2
15°	2696.6	2704.1	2731.5	2794.7	2906.0	3025.9	3213.6	3508.9	3587.2	3948.6	4230.7
17.5°	2657.9	2670.1	2679.6	2725.8	2821.1	2940.9	3124.9	3429.7	3512.7	3919.4	4253.4
20°	2693.7	2707.9	2690.0	2706.0	2766.4	2872.1	3055.1	3367.4	3452.3	3886.3	4256.2
22.5°	2847.5	2860.7	2807.9	2761.7	2757.9	2822.1	2997.5	3318.3	3406.1	3861.8	4257.1
25°	3118.3	3126.8	3038.1	2930.6	2825.8	2804.1	2957.0	3284.4	3377.8	3840.1	4239.2
27.5°	3450.4	3457.0	3355.1	3196.6	2986.2	2846.6	2942.8	3264.6	3361.7	3821.2	4209.0
30°	3854.3	3885.4	3748.6	3548.6	3241.9	2972.1	2971.1	3254.2	3343.8	3789.2	4149.6
32.5°	4267.5	4280.7	4186.4	3983.5	3586.3	3192.9	3050.4	3261.7	3339.1	3750.5	4074.1
35°	4686.4	4703.4	4642.1	4478.9	4057.1	3516.5	3205.1	3306.1	3368.4	3737.3	4021.3
37.5°	5229.0	5251.6	5166.7	4978.0	4629.8	3955.2	3462.7	3417.4	3458.0	3775.0	4005.2
40°	6086.6	6076.2	5828.1	5546.9	5256.3	4516.6	3830.7	3606.1	3629.7	3896.7	4054.3
42.5°	7084.9	7059.4	6632.0	6190.4	5945.1	5195.9	4317.5	3933.5	3928.8	4136.4	4226.9
45°	7881.2	7860.4	7475.5	6931.1	6734.8	5969.6	4946.9	4421.3	4386.4	4516.6	4545.9
47.5°	8312.4	8313.3	8091.6	7647.2	7642.5	6952.8	5755.4	5127.1	5066.7	5128.0	5096.9
50°	8161.4	8181.2	8157.6	8016.1	8470.9	8241.6	6811.2	6111.1	5989.4	6049.8	5930.0
52.5°	7431.1	7456.6	7596.2	7813.3	8819.0	9799.4	8362.4	7333.9	7192.4	7170.7	7037.7
55°	6136.6	6167.8	6452.7	7042.4	8529.4	10845.7	10809.9	8892.6	8667.1	8462.4	8405.8
57.5°	4229.8	4281.7	4740.2	5615.8	7592.5	11161.8	13724.4	11114.6	10656.1	9940.9	9954.1
60°	2384.3	2444.6	2985.3	3780.7	5701.7	10818.3	15941.6	14480.1	13512.1	11672.2	11770.4
62.5°	1516.2	1581.3	1991.8	2626.7	3421.2	8969.1	16850.2	19159.0	17929.6	13806.5	13902.7
65°	1227.5	1255.8	1449.2	2168.2	2484.3	5403.5	16160.5	23013.3	22554.7	16515.3	16066.2
67.5°	1198.3	1207.7	1307.7	1820.0	2382.4	3037.2	12890.3	23734.1	24242.7	19044.9	16967.2
70°	1184.1	1217.1	1473.8	1737.0	2281.4	2561.6	7746.3	21758.4	22561.3	19706.3	15768.0
72.5°	574.6	572.7	741.6	1571.0	2570.1	2656.9	3979.7	17605.1	18410.8	17072.9	12957.3
75°	463.3	423.6	404.8	575.5	2471.1	2743.7	2536.2	12113.8	12696.9	11446.7	7965.2
77.5°	439.7	392.5	359.5	360.4	1044.5	2909.8	2148.4	6704.6	6874.5	5170.5	2182.4
80°	364.2	320.8	297.2	334.9	505.7	2771.1	2322.9	3034.3	2784.3	1270.0	726.5
82.5°	252.9	230.2	223.6	281.2	404.8	1974.8	2701.3	1630.4	1367.2	635.9	448.2
85°	161.3	137.8	152.8	204.7	315.1	911.4	2782.4	1270.9	1010.5	403.8	252.9
87.5°	74.5	60.4	75.5	113.2	205.7	314.2	2647.5	1427.5	1040.7	213.2	159.5
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°	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9	4126.9
2.5°	4128.8	4110.9	4096.7	4070.3	4041.1	4012.8	3987.3	3955.2	3945.8	3937.3	3950.5
5°	4142.0	4124.1	4072.2	3991.1	3901.4	3817.5	3733.5	3661.8	3617.4	3592.9	3607.1
7.5°	4161.8	4136.4	4028.8	3879.7	3718.4	3571.2	3419.3	3297.6	3208.0	3165.5	3177.8
10°	4179.8	4130.7	3955.2	3731.6	3495.7	3276.8	3037.2	2839.0	2691.8	2614.5	2633.4
12.5°	4187.3	4109.0	3852.4	3546.7	3223.0	2902.3	2549.4	2253.1	2041.8	1964.4	1948.4
15°	4194.9	4084.5	3739.2	3336.3	2893.8	2439.9	1945.5	1590.8	1415.3	1376.6	1368.1
17.5°	4196.8	4042.0	3610.8	3107.9	2507.9	1889.9	1330.4	1104.9	1105.8	1168.1	1175.6
20°	4176.9	3978.8	3455.2	2823.9	2045.5	1306.8	913.3	874.6	1017.1	1172.8	1191.7
22.5°	4131.7	3894.8	3278.7	2492.8	1516.2	860.5	706.7	749.2	933.1	1123.7	1145.4
25°	4074.1	3792.9	3070.2	2108.8	1003.9	615.2	592.5	644.4	769.0	896.3	908.6
27.5°	3995.8	3672.2	2836.2	1669.1	652.0	506.7	521.8	556.7	607.6	664.2	669.9
30°	3894.8	3527.8	2586.2	1217.1	492.5	455.7	477.4	496.3	518.0	550.1	552.9
32.5°	3778.8	3389.1	2329.5	840.7	436.8	429.3	446.3	455.7	472.7	492.5	494.4
35°	3681.6	3257.0	2063.5	594.4	413.3	409.5	420.8	424.6	440.6	462.3	464.2
37.5°	3625.9	3149.5	1788.9	479.3	397.2	391.6	398.2	398.2	420.8	452.9	457.6
40°	3629.7	3090.0	1514.3	433.1	384.0	376.5	377.4	377.4	406.7	441.6	444.4
42.5°	3732.5	3105.1	1270.9	415.1	373.6	365.1	360.4	363.3	387.8	410.4	412.3
45°	3974.1	3211.7	1042.6	403.8	363.3	360.4	350.0	349.1	358.5	368.9	368.9
47.5°	4370.4	3422.1	887.8	396.3	354.8	353.8	341.6	329.3	328.3	332.1	332.1
50°	5014.8	3784.4	784.1	387.8	349.1	341.6	327.4	308.5	301.9	304.8	304.8
52.5°	5980.9	4430.7	744.4	376.5	336.8	324.6	308.5	289.7	284.0	284.9	284.9
55°	7248.1	5423.3	738.8	363.3	323.6	303.8	290.6	276.5	269.8	271.7	271.7
57.5°	8796.4	6796.1	839.7	342.5	305.7	283.1	275.5	266.1	261.4	264.2	263.2
60°	10678.7	8592.6	1245.4	320.8	287.8	264.2	264.2	256.6	252.9	255.7	254.7
62.5°	12846.9	10656.1	1751.2	304.8	268.9	249.1	252.9	249.1	245.3	247.2	246.3
65°	14769.8	12000.6	1639.8	292.5	250.0	234.9	241.5	239.7	236.8	238.7	237.8
67.5°	14825.5	11502.4	920.9	279.3	232.1	220.8	230.2	229.3	227.4	229.3	228.3
70°	13230.9	9712.5	518.9	254.7	213.2	203.8	217.0	216.1	214.2	218.0	217.0
72.5°	10600.4	7048.1	379.3	224.6	194.4	185.9	201.0	200.0	200.0	205.7	202.9
75°	6099.8	3626.9	302.9	192.5	174.6	167.9	181.2	182.1	184.0	191.5	185.9
77.5°	1738.9	1130.3	247.2	163.2	150.0	147.2	160.4	162.3	163.2	171.7	164.2
80°	646.3	520.8	203.8	136.8	122.7	123.6	135.9	138.7	139.6	148.1	138.7
82.5°	412.3	343.4	165.1	105.7	96.2	95.3	110.4	114.2	114.2	115.1	109.4
85°	240.6	205.7	124.5	76.4	67.9	65.1	82.1	88.7	85.9	84.0	80.2
87.5°	161.3	141.5	76.4	42.5	36.8	34.9	48.1	52.8	50.9	48.1	45.3
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)