

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: P299240

Luminaire Tested: **GLNA-AF-05-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299240  
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-SL2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18506.9 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

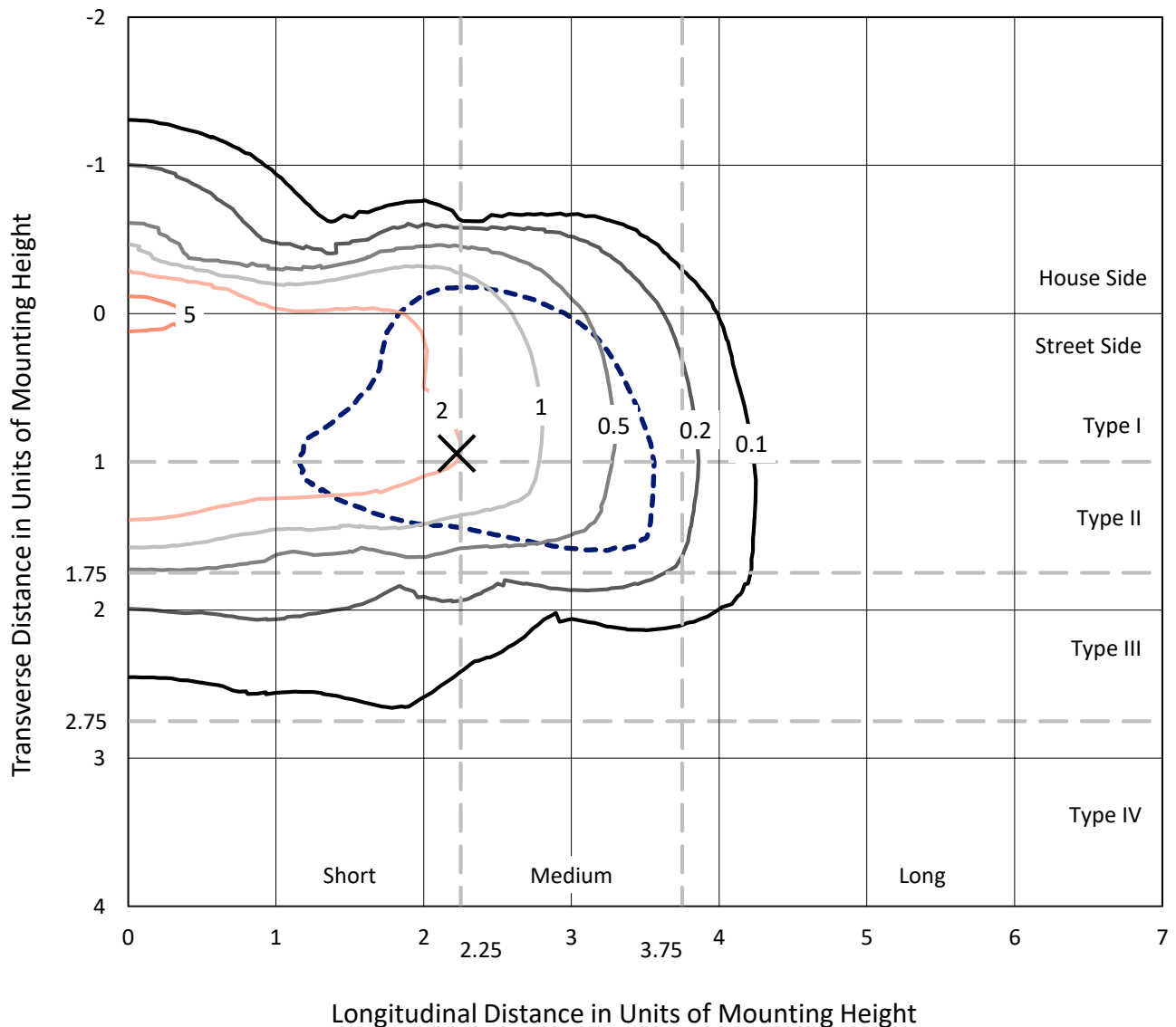
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

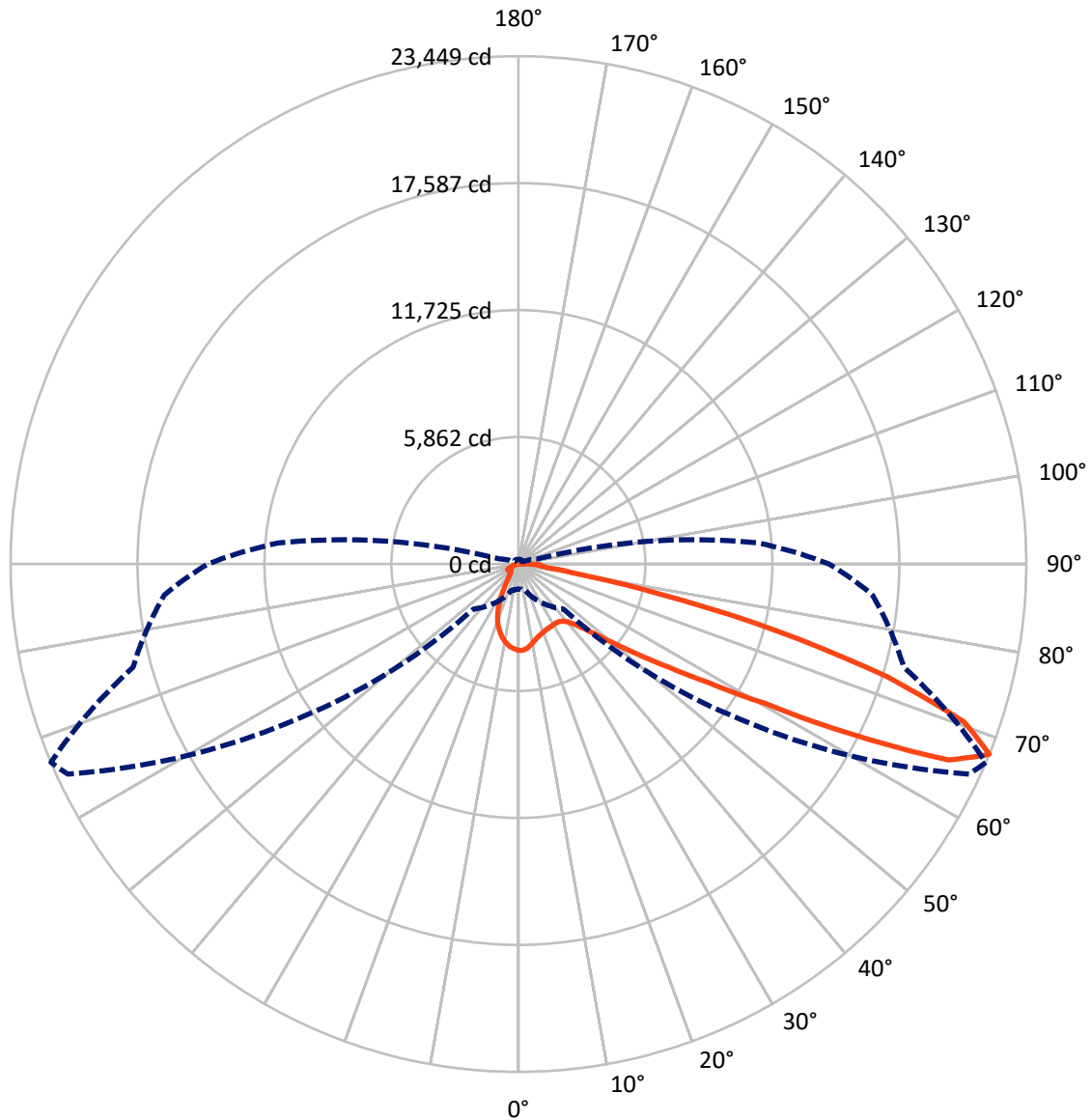
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3066.4	0.0	3066.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	15440.5	0.0	15440.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	18506.9	0.0	18506.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.6	1.8
10°-20°	788.0	4.3
20°-30°	1068.2	5.8
30°-40°	1518.5	8.2
40°-50°	2540.6	13.7
50°-60°	4019.1	21.7
60°-70°	5120.0	27.7
70°-80°	2681.8	14.5
80°-90°	430.1	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°	18506.9	100.0
0°-180°	18506.9	100.0

**Coefficient of Utilization**



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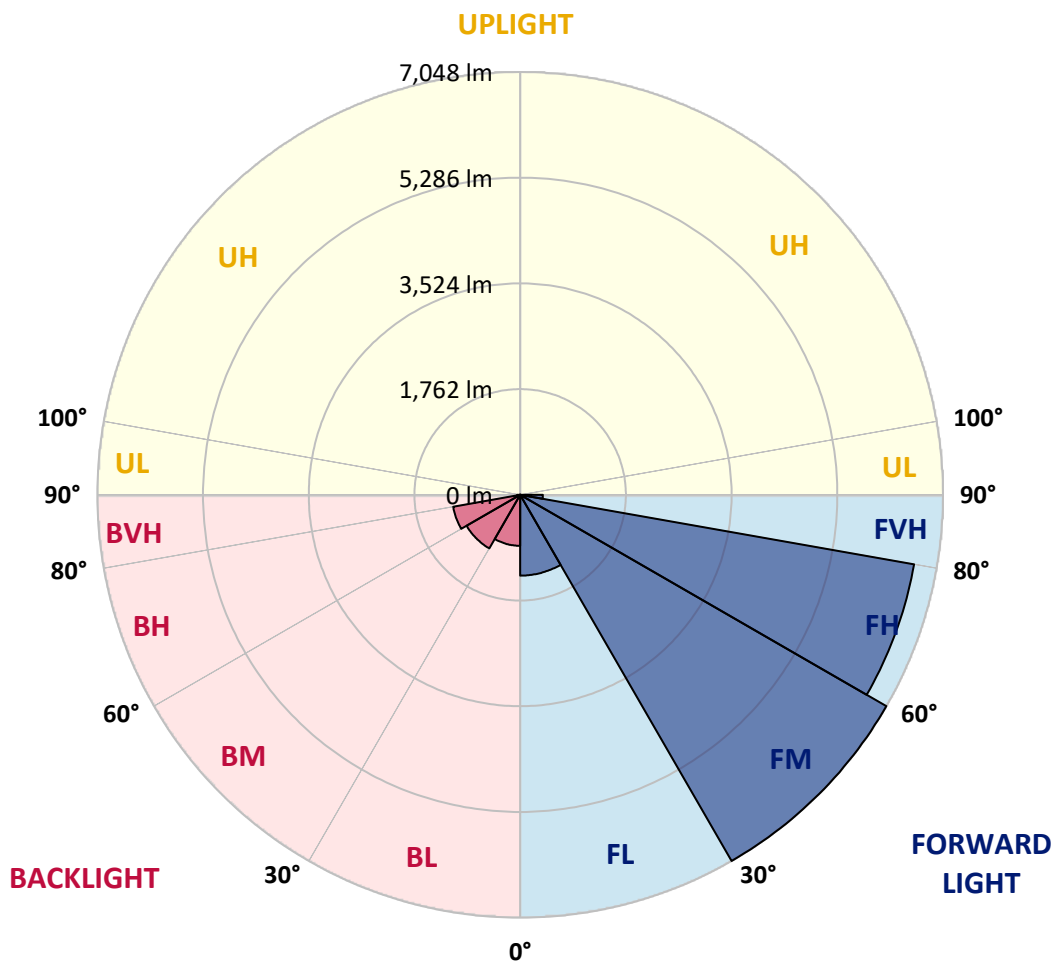
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1346.9	7.3			
FM	(30°-60°)	7047.8	38.1			
FH	(60°-80°)	6667.7	36.0			G3/7500
FVH	(80°-90°)	378.2	2.0			G3/500
BL	(0°-30°)	849.9	4.6	B2/1000		
BM	(30°-60°)	1030.4	5.6	B2/2500		
BH	(60°-80°)	1134.2	6.1	B3/2500		G3/2500
BVH	(80°-90°)	51.9	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°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	3827.6	3834.0	3854.1	3866.9	3924.4	3949.0	3966.3	3983.7	3986.4	3994.6	3986.4
5°	3426.1	3439.8	3477.2	3519.2	3630.5	3718.1	3810.3	3906.1	3923.5	3985.5	4002.9
7.5°	3114.9	3111.2	3142.2	3192.4	3306.5	3427.9	3589.4	3780.2	3817.6	3957.2	4024.8
10°	2887.6	2884.9	2917.7	2969.7	3078.3	3193.3	3375.9	3636.9	3689.8	3912.5	4045.7
12.5°	2719.7	2720.6	2753.4	2810.9	2921.4	3037.3	3222.5	3498.2	3565.7	3860.5	4067.6
15°	2608.3	2615.6	2642.1	2703.2	2810.9	2926.8	3108.5	3394.1	3469.9	3819.4	4092.3
17.5°	2570.9	2582.8	2591.9	2636.6	2728.8	2844.7	3022.7	3317.5	3397.8	3791.1	4114.2
20°	2605.6	2619.3	2601.9	2617.5	2675.9	2778.1	2955.1	3257.2	3339.4	3759.2	4116.9
22.5°	2754.4	2767.1	2716.0	2671.3	2667.7	2729.7	2899.5	3209.8	3294.6	3735.4	4117.8
25°	3016.3	3024.5	2938.7	2834.7	2733.4	2712.4	2860.2	3176.9	3267.3	3714.5	4100.5
27.5°	3337.5	3343.9	3245.4	3092.0	2888.5	2753.4	2846.5	3157.7	3251.7	3696.2	4071.3
30°	3728.1	3758.3	3625.9	3432.5	3135.8	2874.8	2873.9	3147.7	3234.4	3665.2	4013.8
32.5°	4127.9	4140.7	4049.4	3853.2	3469.0	3088.4	2950.6	3155.0	3229.8	3627.8	3940.8
35°	4533.1	4549.5	4490.2	4332.3	3924.4	3401.4	3100.2	3197.9	3258.1	3615.0	3889.7
37.5°	5057.9	5079.8	4997.6	4815.1	4478.3	3825.8	3349.4	3305.6	3344.8	3651.5	3874.2
40°	5887.5	5877.4	5637.4	5365.4	5084.3	4368.8	3705.3	3488.1	3510.9	3769.2	3921.6
42.5°	6853.0	6828.4	6415.0	5987.9	5750.6	5025.9	4176.3	3804.8	3800.2	4001.0	4088.6
45°	7623.3	7603.2	7230.9	6704.3	6514.4	5774.3	4785.0	4276.6	4242.9	4368.8	4397.1
47.5°	8040.4	8041.3	7826.8	7397.0	7392.4	6725.3	5567.1	4959.3	4900.9	4960.2	4930.1
50°	7894.4	7913.5	7890.7	7753.8	8193.7	7971.9	6588.4	5911.2	5793.5	5851.9	5736.0
52.5°	7188.0	7212.6	7347.7	7557.6	8530.5	9478.7	8088.8	7094.0	6957.1	6936.1	6807.4
55°	5935.8	5965.9	6241.6	6812.0	8250.3	10490.8	10456.2	8601.7	8383.5	8185.5	8130.7
57.5°	4091.4	4141.6	4585.1	5432.1	7344.0	10796.6	13275.3	10750.9	10307.4	9615.6	9628.4
60°	2306.2	2364.7	2887.6	3657.0	5515.1	10464.4	15420.0	14006.3	13070.0	11290.3	11385.2
62.5°	1466.6	1529.6	1926.6	2540.8	3309.2	8675.6	16298.9	18532.1	17343.0	13354.7	13447.8
65°	1187.3	1214.7	1401.8	2097.3	2403.0	5226.7	15631.7	22260.3	21816.7	15974.9	15540.5
67.5°	1159.1	1168.2	1264.9	1760.5	2304.4	2937.8	12468.5	22957.5	23449.4	18421.7	16412.1
70°	1145.4	1177.3	1425.5	1680.2	2206.8	2477.8	7492.8	21046.5	21823.1	19061.5	15252.1
72.5°	555.8	554.0	717.3	1519.6	2486.0	2570.0	3849.5	17029.0	17808.4	16514.3	12533.3
75°	448.1	409.8	391.5	556.7	2390.2	2654.0	2453.2	11717.4	12281.4	11072.2	7704.5
77.5°	425.3	379.7	347.7	348.6	1010.3	2814.6	2078.1	6485.2	6649.5	5001.3	2110.9
80°	352.3	310.3	287.5	324.0	489.2	2680.4	2246.9	2935.1	2693.2	1228.4	702.7
82.5°	244.6	222.7	216.3	272.0	391.5	1910.2	2612.9	1577.0	1322.4	615.1	433.5
85°	156.1	133.2	147.8	198.0	304.8	881.6	2691.4	1229.3	977.4	390.6	244.6
87.5°	72.1	58.4	73.0	109.5	199.0	303.9	2560.9	1380.8	1006.6	206.3	154.2
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°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	3993.7	3976.4	3962.7	3937.1	3908.8	3881.5	3856.8	3825.8	3816.7	3808.5	3821.2
5°	4006.5	3989.2	3939.0	3860.5	3773.8	3692.6	3611.3	3542.0	3499.1	3475.3	3489.0
7.5°	4025.7	4001.0	3897.0	3752.8	3596.7	3454.4	3307.4	3189.7	3103.0	3061.9	3073.8
10°	4043.0	3995.6	3825.8	3609.5	3381.3	3169.6	2937.8	2746.1	2603.8	2528.9	2547.2
12.5°	4050.3	3974.6	3726.3	3430.6	3117.6	2807.3	2466.0	2179.4	1975.0	1900.1	1884.6
15°	4057.6	3950.8	3616.8	3227.1	2799.1	2360.1	1881.9	1538.7	1369.0	1331.5	1323.3
17.5°	4059.4	3909.8	3492.7	3006.2	2425.8	1828.0	1286.8	1068.7	1069.6	1129.9	1137.2
20°	4040.3	3848.6	3342.1	2731.5	1978.6	1264.0	883.4	846.0	983.8	1134.4	1152.7
22.5°	3996.5	3767.4	3171.4	2411.2	1466.6	832.3	683.6	724.6	902.6	1087.0	1107.9
25°	3940.8	3668.8	2969.7	2039.8	971.1	595.0	573.1	623.3	743.8	867.0	878.9
27.5°	3865.0	3552.0	2743.4	1614.5	630.6	490.1	504.7	538.5	587.7	642.5	648.0
30°	3767.4	3412.4	2501.6	1177.3	476.4	440.8	461.8	480.1	501.0	532.1	534.8
32.5°	3655.1	3278.2	2253.3	813.2	422.6	415.3	431.7	440.8	457.2	476.4	478.2
35°	3561.1	3150.4	1996.0	575.0	399.7	396.1	407.0	410.7	426.2	447.2	449.0
37.5°	3507.3	3046.4	1730.4	463.6	384.2	378.7	385.1	385.1	407.0	438.1	442.6
40°	3510.9	2988.9	1464.8	418.9	371.4	364.1	365.1	365.1	393.3	427.1	429.9
42.5°	3610.4	3003.5	1229.3	401.6	361.4	353.2	348.6	351.4	375.1	397.0	398.8
45°	3844.1	3106.6	1008.5	390.6	351.4	348.6	338.6	337.7	346.8	356.8	356.8
47.5°	4227.4	3310.2	858.8	383.3	343.2	342.2	330.4	318.5	317.6	321.3	321.3
50°	4850.7	3660.6	758.4	375.1	337.7	330.4	316.7	298.4	292.0	294.8	294.8
52.5°	5785.2	4285.8	720.1	364.1	325.8	313.9	298.4	280.2	274.7	275.6	275.6
55°	7010.9	5245.9	714.6	351.4	313.0	293.9	281.1	267.4	261.0	262.8	262.8
57.5°	8508.6	6573.8	812.3	331.3	295.7	273.8	266.5	257.4	252.8	255.5	254.6
60°	10329.3	8311.4	1204.7	310.3	278.4	255.5	255.5	248.2	244.6	247.3	246.4
62.5°	12426.5	10307.4	1693.9	294.8	260.1	240.9	244.6	240.9	237.3	239.1	238.2
65°	14286.5	11607.9	1586.2	282.9	241.9	227.2	233.6	231.8	229.1	230.9	230.0
67.5°	14340.4	11126.0	890.7	270.1	224.5	213.6	222.7	221.8	219.9	221.8	220.9
70°	12798.0	9394.7	502.0	246.4	206.3	197.1	209.9	209.0	207.2	210.8	209.9
72.5°	10253.5	6817.4	366.9	217.2	188.0	179.8	194.4	193.5	193.5	199.0	196.2
75°	5900.2	3508.2	293.0	186.2	168.8	162.5	175.2	176.1	178.0	185.3	179.8
77.5°	1682.0	1093.3	239.1	157.9	145.1	142.4	155.1	157.0	157.9	166.1	158.8
80°	625.2	503.8	197.1	132.3	118.6	119.6	131.4	134.2	135.1	143.3	134.2
82.5°	398.8	332.2	159.7	102.2	93.1	92.2	106.8	110.4	110.4	111.3	105.9
85°	232.7	199.0	120.5	73.9	65.7	63.0	79.4	85.8	83.1	81.2	77.6
87.5°	156.1	136.9	73.9	41.1	35.6	33.8	46.5	51.1	49.3	46.5	43.8
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)