

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: P269402

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-SL4-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19364.6 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

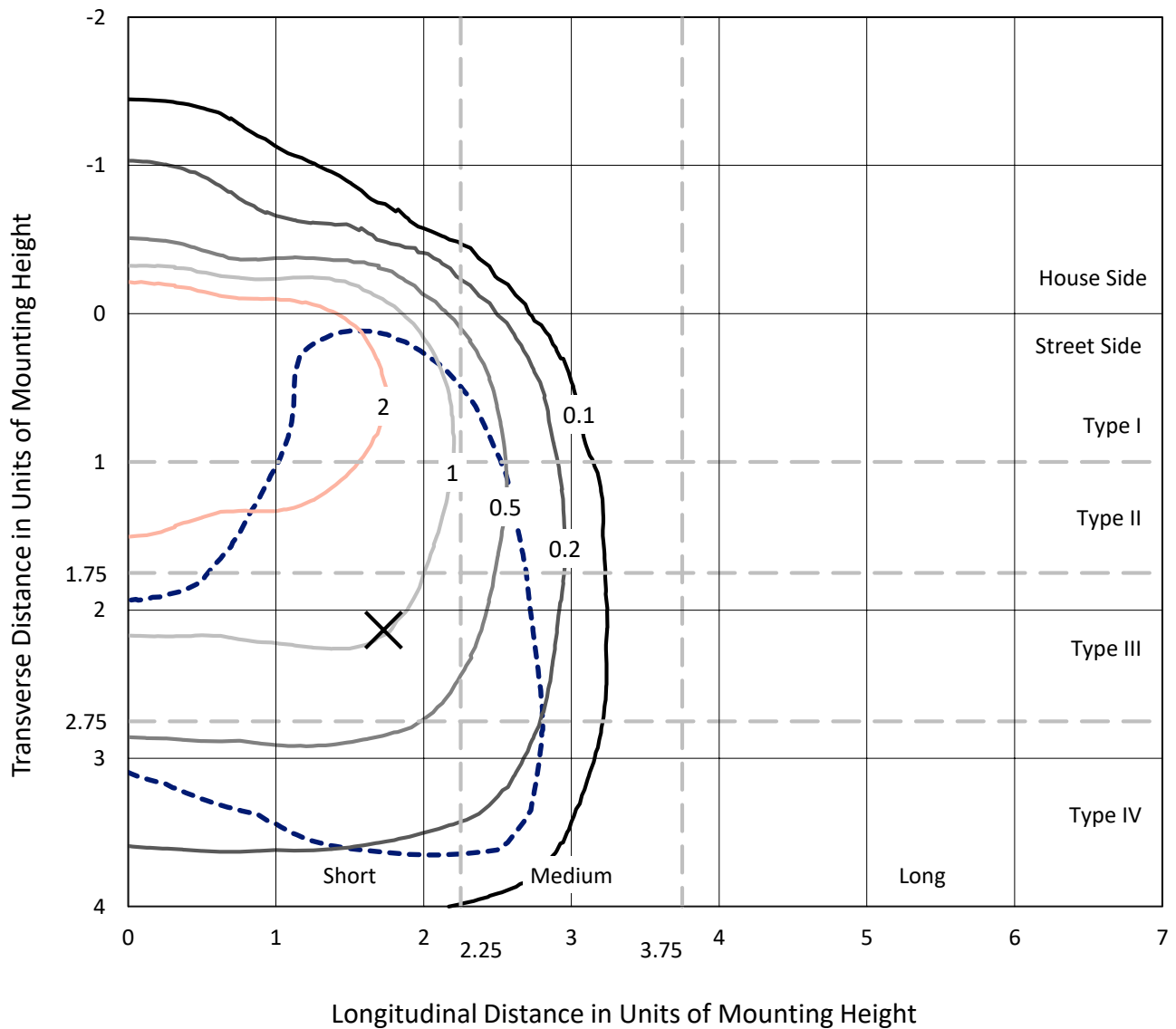
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

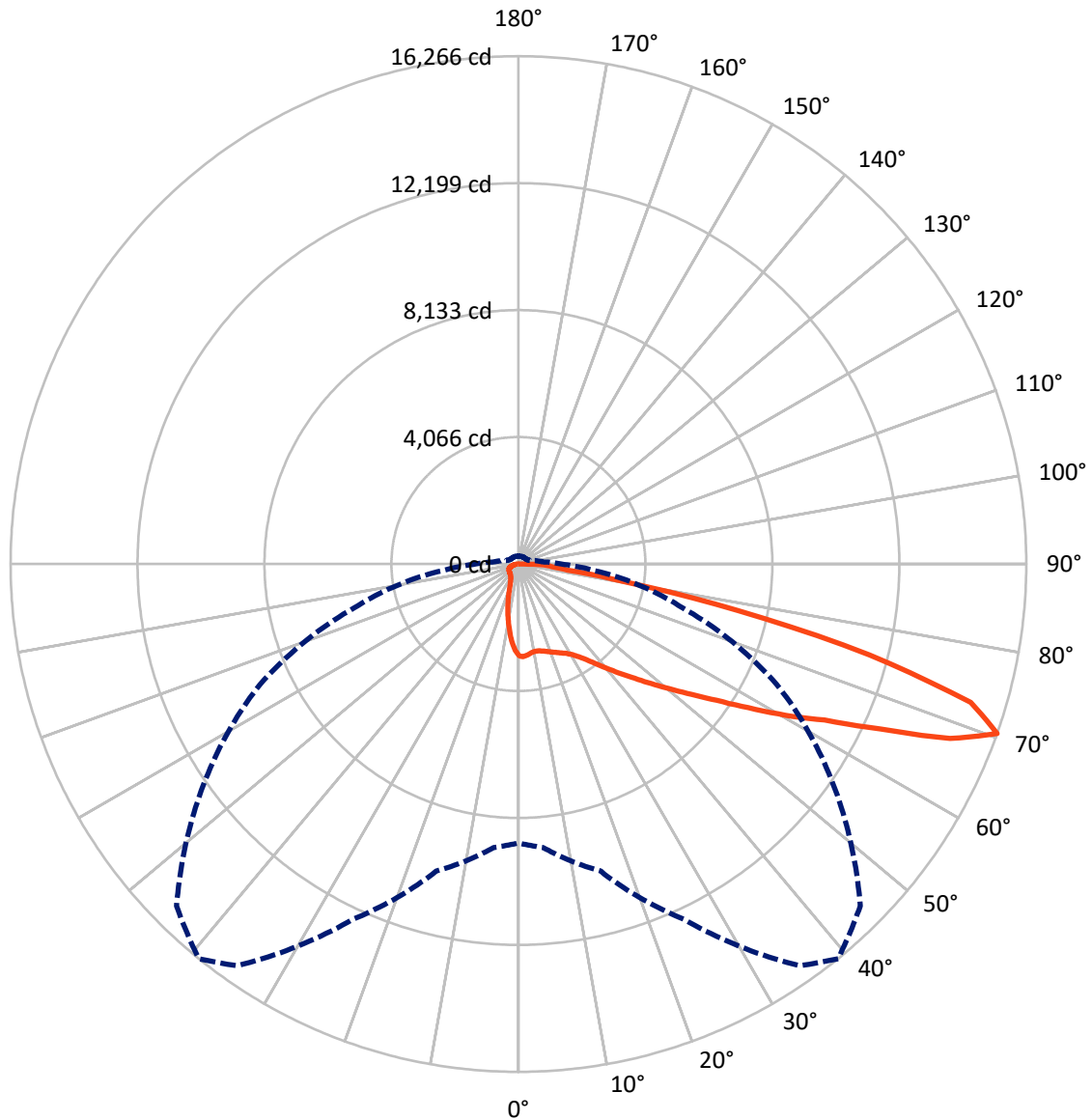
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2202.4	0.0	2202.4
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	17162.2	0.0	17162.2
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	19364.6	0.0	19364.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	1.3
10°-20°	630.6	3.3
20°-30°	981.9	5.1
30°-40°	1529.7	7.9
40°-50°	2568.0	13.3
50°-60°	4079.6	21.1
60°-70°	5441.7	28.1
70°-80°	3286.1	17.0
80°-90°	594.7	3.1
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°	19364.6	100.0
0°-180°	19364.6	100.0



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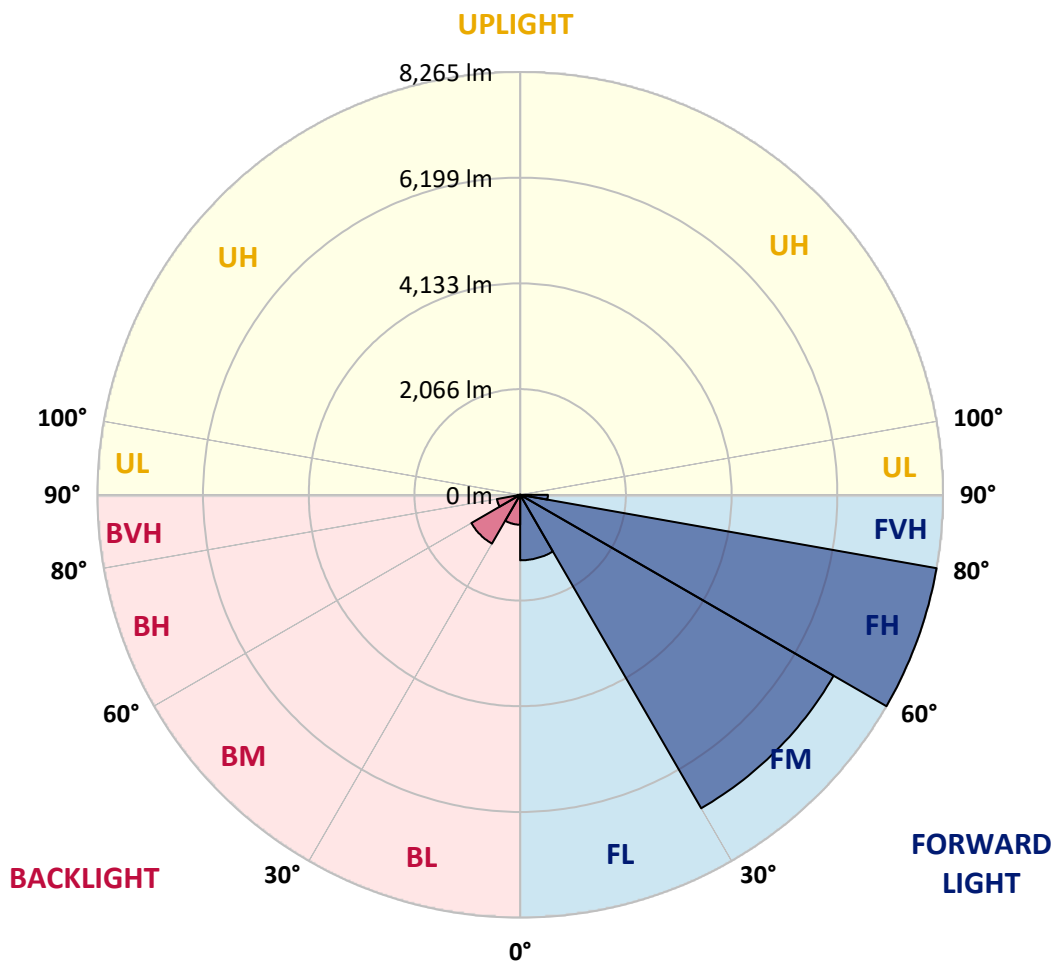
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1280.6	6.6			
FM	(30°-60°)	7075.1	36.5			
FH	(60°-80°)	8265.4	42.7			G4/12000
FVH	(80°-90°)	541.1	2.8			G4/750
BL	(0°-30°)	584.3	3.0	B2/1000		
BM	(30°-60°)	1102.2	5.7	B2/2500		
BH	(60°-80°)	462.4	2.4	B1/500		G1/500
BVH	(80°-90°)	53.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	2996.9	2995.9	2988.1	2982.3	2977.3	2975.2	2979.1	2964.4	2951.7	2935.9	2919.2
5°	2974.3	2973.3	2960.5	2948.6	2936.9	2933.0	2932.0	2905.4	2889.7	2866.0	2834.5
7.5°	2949.8	2944.7	2928.0	2908.4	2887.7	2877.8	2868.0	2833.6	2815.7	2792.2	2755.7
10°	2924.2	2918.2	2902.5	2882.8	2863.1	2848.3	2831.5	2798.1	2779.4	2761.7	2719.3
12.5°	2897.6	2892.6	2888.7	2879.7	2866.0	2853.1	2840.4	2811.9	2792.2	2771.5	2722.3
15°	2893.6	2891.6	2900.4	2906.3	2898.6	2890.7	2876.8	2852.2	2831.5	2810.8	2746.8
17.5°	2925.2	2924.2	2946.7	2962.5	2958.6	2944.7	2926.0	2898.6	2881.8	2864.1	2784.2
20°	2994.1	2998.9	3026.5	3047.2	3027.5	3007.7	2977.3	2938.8	2930.0	2922.1	2822.7
22.5°	3123.9	3128.8	3148.6	3156.5	3105.3	3076.8	3034.4	2985.2	2979.1	2985.2	2868.9
25°	3326.8	3321.8	3318.9	3289.4	3195.8	3151.6	3097.4	3046.2	3049.1	3075.7	2934.0
27.5°	3595.6	3569.0	3527.6	3439.0	3290.3	3241.2	3175.1	3127.9	3146.7	3197.7	3031.4
30°	3874.2	3844.7	3749.2	3604.4	3414.4	3360.3	3286.4	3233.2	3282.4	3363.3	3161.3
32.5°	4132.2	4128.3	3988.4	3802.3	3585.8	3538.5	3464.7	3404.5	3484.3	3607.4	3356.2
35°	4413.7	4422.5	4255.2	4031.8	3817.1	3767.9	3714.8	3669.3	3775.8	3945.0	3638.9
37.5°	4714.9	4732.7	4534.9	4282.8	4080.9	4060.2	4028.8	4009.0	4173.4	4407.9	4033.7
40°	5117.6	5099.9	4825.2	4566.4	4404.8	4403.9	4394.0	4417.7	4691.4	5012.4	4540.8
42.5°	5548.9	5496.6	5133.5	4870.5	4760.3	4793.7	4813.5	4910.0	5314.6	5746.7	5159.1
45°	6013.7	5896.5	5453.4	5192.6	5155.1	5226.0	5293.0	5502.6	6048.1	6582.7	5836.4
47.5°	6384.8	6271.5	5784.1	5530.1	5611.9	5719.1	5848.1	6180.0	6869.2	7446.1	6504.8
50°	6677.2	6603.4	6117.9	5924.1	6115.0	6280.4	6491.2	6947.0	7723.7	8287.0	7124.2
52.5°	6960.7	6905.6	6454.7	6327.8	6705.8	6934.1	7220.7	7770.0	8600.1	9113.9	7644.9
55°	7216.8	7177.4	6817.0	6830.8	7400.9	7698.1	8058.4	8707.4	9555.0	9851.4	8086.1
57.5°	7505.2	7454.9	7230.5	7462.0	8293.8	8679.8	9148.3	9760.8	10450.9	10507.0	8421.8
60°	7795.6	7752.4	7689.3	8190.4	9428.0	9833.7	10277.7	10781.7	11359.6	11016.0	8402.0
62.5°	8047.6	8052.5	8163.8	8955.5	10538.6	11008.2	11549.7	12047.9	12181.7	11104.7	7780.8
65°	8475.0	8552.8	8884.5	10038.4	12102.1	12730.2	13394.7	13314.9	12409.1	10276.7	6448.8
67.5°	8983.1	9119.9	9792.2	11481.7	14078.0	14912.0	15168.9	13601.4	11498.6	8353.9	4596.8
70°	8931.8	9119.9	10184.2	12557.9	15706.4	16265.7	15485.9	12309.7	9130.6	5457.4	2441.7
72.5°	7931.5	8200.3	9385.8	12064.5	15193.6	15144.3	13443.9	9176.9	5424.9	2191.5	954.0
75°	6045.1	6316.8	7336.8	9531.3	12008.5	11595.1	9539.2	5069.4	2058.6	870.4	601.5
77.5°	3477.3	3688.1	4475.7	5845.2	7618.4	7194.0	5309.6	2254.6	1002.2	606.4	469.6
80°	1941.5	2058.6	2537.2	2965.5	3733.4	3422.3	2375.7	1400.9	748.3	440.1	362.2
82.5°	1534.9	1639.2	2051.8	1870.6	1705.3	1573.3	1364.5	1247.4	597.6	277.7	216.6
85°	1341.0	1440.4	1736.8	1473.0	1164.7	1068.3	1108.6	1227.8	464.8	167.4	185.1
87.5°	1242.4	1375.5	1547.7	1135.2	906.7	803.4	1022.9	1345.9	149.7	104.4	74.7
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°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	2904.4	2888.7	2863.1	2840.4	2805.0	2786.3	2765.6	2750.8	2739.0	2729.2	2745.0
5°	2814.7	2785.3	2731.1	2673.0	2604.1	2550.0	2504.7	2462.3	2432.8	2413.0	2427.0
7.5°	2730.2	2681.9	2597.2	2491.9	2373.7	2273.3	2190.5	2117.8	2067.5	2035.1	2047.9
10°	2681.9	2621.9	2490.9	2325.5	2151.3	1994.6	1864.7	1752.6	1674.7	1630.5	1637.3
12.5°	2670.1	2592.2	2411.1	2183.7	1945.5	1727.9	1544.7	1389.1	1279.9	1222.9	1224.7
15°	2678.9	2579.6	2336.3	2047.9	1746.6	1472.0	1243.4	1054.4	927.4	862.5	861.5
17.5°	2693.7	2569.6	2257.6	1901.2	1544.7	1225.7	970.8	785.7	673.4	621.3	617.3
20°	2709.5	2553.9	2169.0	1742.6	1335.1	997.4	760.1	615.3	544.5	515.8	513.9
22.5°	2732.1	2540.1	2077.4	1575.3	1129.3	812.2	625.2	527.8	490.4	475.6	473.5
25°	2768.5	2533.2	1980.0	1400.9	944.2	679.4	544.5	484.4	462.7	452.8	451.8
27.5°	2829.7	2543.1	1888.3	1231.7	793.6	589.7	499.2	462.7	446.9	438.2	437.1
30°	2908.4	2573.6	1791.8	1071.1	676.3	528.7	471.6	448.0	435.1	426.3	426.3
32.5°	3039.2	2624.8	1690.5	932.4	592.7	486.3	450.9	435.1	424.3	417.4	416.5
35°	3232.2	2721.2	1596.0	817.2	532.6	455.8	433.3	421.3	413.5	409.5	409.5
37.5°	3512.8	2873.9	1512.2	734.5	496.3	435.1	416.5	407.7	402.7	402.7	402.7
40°	3889.9	3084.6	1444.4	679.4	475.6	420.3	403.7	396.8	393.7	394.9	394.9
42.5°	4355.6	3358.3	1399.0	640.9	465.7	411.6	394.9	388.8	385.9	385.0	385.9
45°	4886.3	3669.3	1394.1	612.4	455.8	405.7	388.8	382.9	377.1	373.2	373.2
47.5°	5402.1	3985.4	1434.5	602.6	445.0	398.8	383.9	378.0	369.3	360.3	360.3
50°	5858.0	4254.3	1488.6	606.4	441.1	388.8	376.1	373.2	359.3	349.5	348.5
52.5°	6220.4	4461.0	1533.0	618.4	445.0	382.0	366.2	367.2	352.4	341.6	340.6
55°	6510.7	4596.8	1521.1	630.2	453.9	378.0	357.3	359.3	347.6	336.8	336.8
57.5°	6637.8	4546.6	1390.1	620.3	460.8	379.1	350.5	358.3	348.5	338.8	338.8
60°	6365.1	4100.7	1145.0	576.9	451.8	376.1	347.6	362.2	361.3	351.4	350.5
62.5°	5540.0	3302.2	888.1	512.9	421.3	361.3	339.6	361.3	372.2	369.3	368.2
65°	4270.0	2352.1	678.4	444.0	380.1	336.8	319.0	338.8	353.5	357.3	356.4
67.5°	2771.5	1441.4	522.9	379.1	333.8	308.2	292.4	301.3	304.3	304.3	302.3
70°	1362.5	775.9	416.5	319.0	286.5	277.7	268.9	263.8	258.9	254.9	254.9
72.5°	672.4	507.1	342.7	269.9	247.2	243.3	241.3	235.3	231.4	226.5	224.4
75°	497.2	412.5	291.4	227.5	212.7	208.8	212.7	207.8	206.8	202.7	200.9
77.5°	408.5	351.4	251.0	194.9	182.1	175.3	181.2	182.1	183.2	177.2	175.3
80°	331.8	297.2	209.8	161.4	149.7	144.7	148.7	156.6	158.6	149.7	145.7
82.5°	239.3	243.3	169.3	126.0	116.2	112.3	120.2	130.0	132.0	119.1	116.2
85°	200.9	202.7	130.0	89.7	79.8	73.8	86.6	96.5	103.3	90.5	87.7
87.5°	83.7	119.1	74.7	50.2	44.2	38.4	46.3	51.3	62.1	57.1	56.1
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)