

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: P191242

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191242  
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-04-LED-E1-SL4-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA 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: 18857.1 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

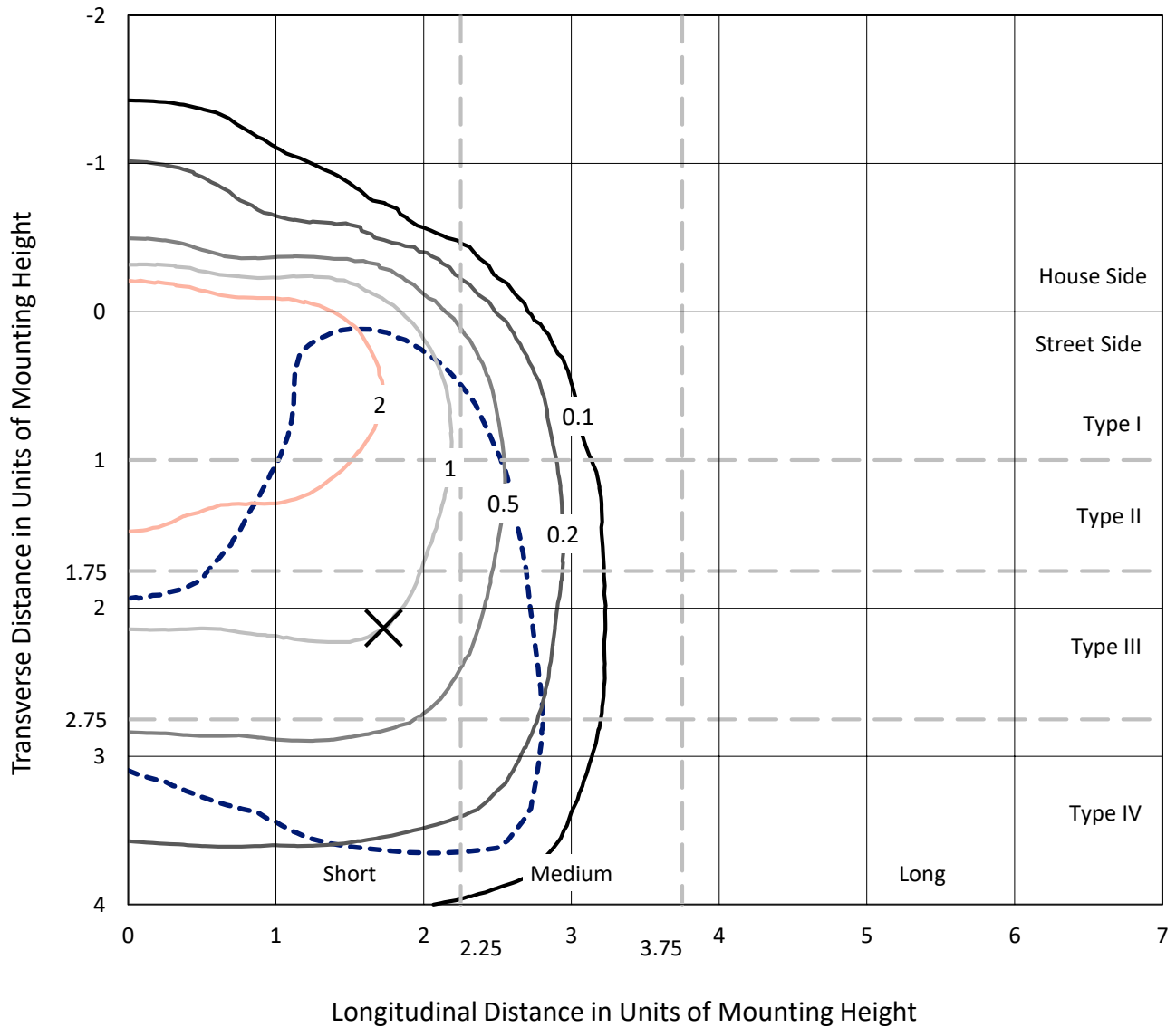
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

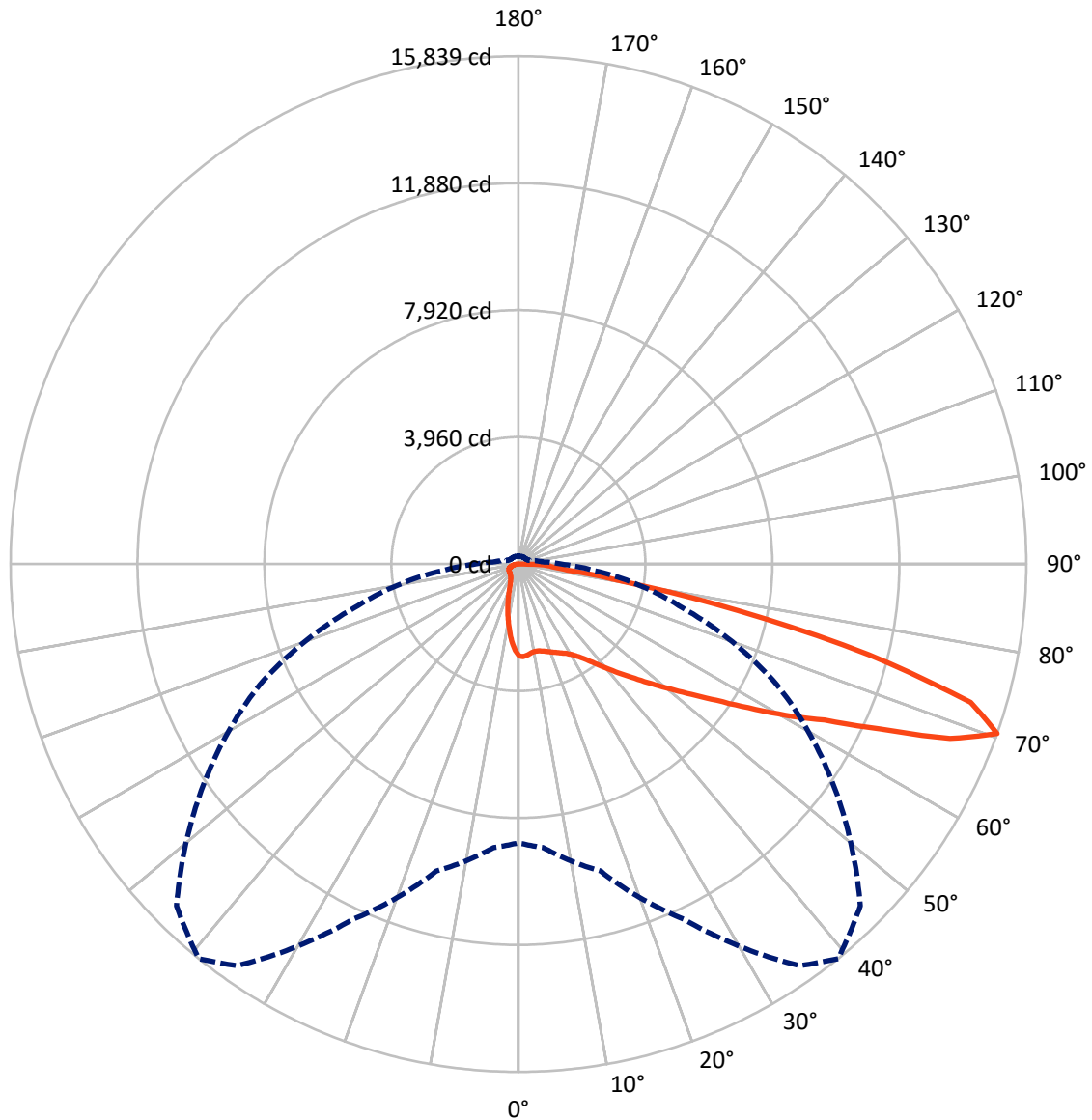
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2144.7	0.0	2144.7
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	16712.4	0.0	16712.4
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	18857.1	0.0	18857.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.7	1.3
10°-20°	614.1	3.3
20°-30°	956.2	5.1
30°-40°	1489.6	7.9
40°-50°	2500.7	13.3
50°-60°	3972.6	21.1
60°-70°	5299.0	28.1
70°-80°	3200.0	17.0
80°-90°	579.1	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°	18857.1	100.0
0°-180°	18857.1	100.0



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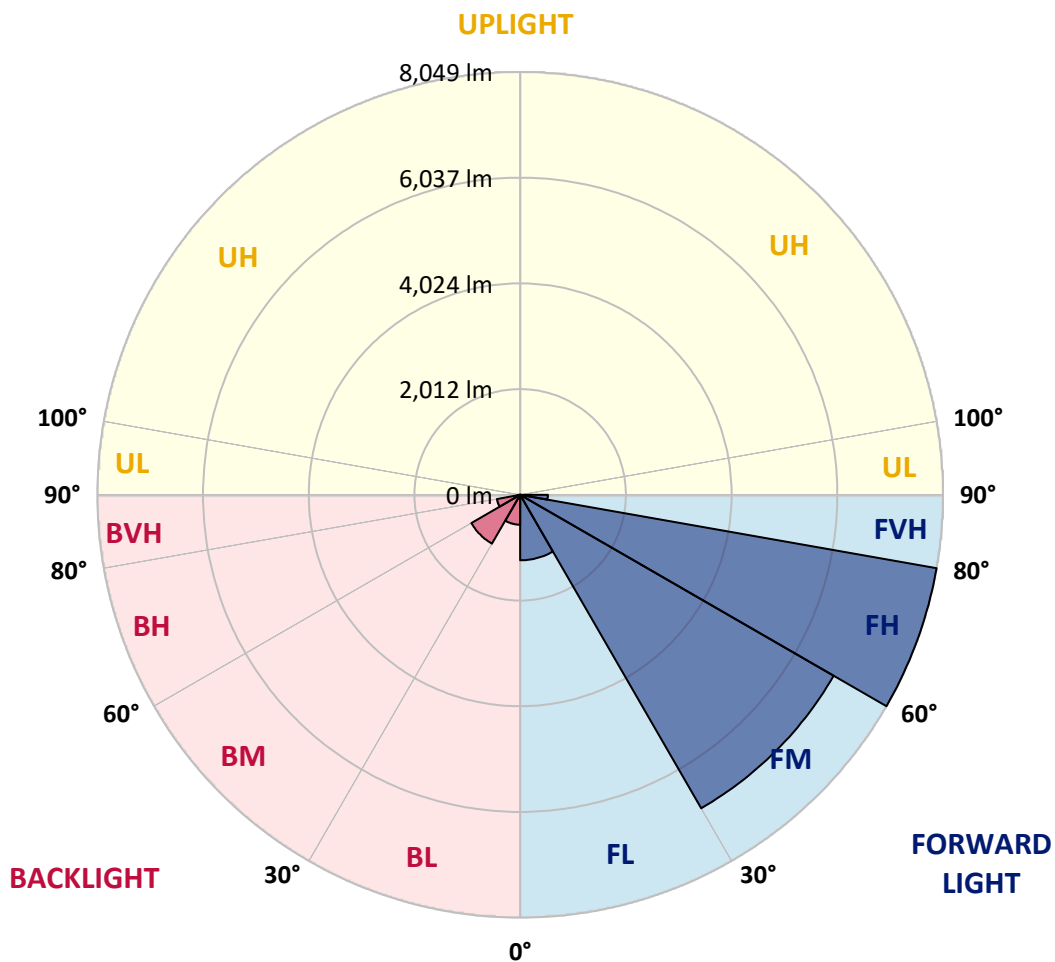
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1247.0	6.6			
FM	(30°-60°)	6889.7	36.5			
FH	(60°-80°)	8048.7	42.7			G4/12000
FVH	(80°-90°)	526.9	2.8			G4/750
BL	(0°-30°)	568.9	3.0	B2/1000		
BM	(30°-60°)	1073.3	5.7	B2/2500		
BH	(60°-80°)	450.3	2.4	B1/500		G1/500
BVH	(80°-90°)	52.2	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°	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8
2.5°	2918.4	2917.5	2909.8	2904.1	2899.2	2897.3	2901.2	2886.8	2874.3	2858.9	2842.7
5°	2896.4	2895.4	2882.9	2871.4	2860.0	2856.1	2855.2	2829.3	2813.9	2790.9	2760.2
7.5°	2872.3	2867.6	2851.3	2832.1	2812.0	2802.4	2792.8	2759.2	2742.0	2719.0	2683.5
10°	2847.5	2841.7	2826.4	2807.2	2788.1	2773.6	2757.4	2724.7	2706.5	2689.2	2648.0
12.5°	2821.6	2816.8	2812.9	2804.3	2790.9	2778.4	2766.0	2738.1	2719.0	2698.9	2650.9
15°	2817.7	2815.8	2824.5	2830.2	2822.5	2814.9	2801.5	2777.5	2757.4	2737.2	2674.9
17.5°	2848.4	2847.5	2869.5	2884.8	2881.0	2867.6	2849.3	2822.5	2806.3	2789.0	2711.3
20°	2915.5	2920.3	2947.1	2967.3	2948.1	2928.9	2899.2	2861.8	2853.2	2845.5	2748.7
22.5°	3042.1	3046.9	3066.1	3073.8	3023.8	2996.0	2954.8	2906.9	2901.2	2906.9	2793.8
25°	3239.6	3234.8	3231.9	3203.2	3112.0	3069.0	3016.2	2966.4	2969.2	2995.1	2857.0
27.5°	3501.4	3475.5	3435.2	3348.8	3204.1	3156.2	3092.0	3045.9	3064.1	3114.0	2951.9
30°	3772.6	3743.9	3650.9	3509.9	3324.9	3272.2	3200.3	3148.5	3196.4	3275.1	3078.5
32.5°	4023.9	4020.0	3883.8	3702.7	3491.7	3445.7	3373.8	3315.3	3393.0	3512.8	3268.3
35°	4298.0	4306.6	4143.7	3926.1	3717.0	3669.1	3617.4	3573.3	3676.8	3841.7	3543.5
37.5°	4591.4	4608.7	4416.0	4170.5	3974.0	3953.8	3923.1	3904.0	4064.1	4292.3	3927.9
40°	4983.5	4966.2	4698.8	4446.7	4289.4	4288.4	4278.9	4301.8	4568.4	4880.9	4421.7
42.5°	5403.4	5352.7	4998.9	4742.9	4635.5	4668.1	4687.3	4781.3	5175.3	5596.2	5023.8
45°	5856.0	5741.9	5310.4	5056.3	5019.9	5089.0	5154.1	5358.4	5889.5	6410.1	5683.4
47.5°	6217.4	6107.2	5632.6	5385.2	5464.8	5569.4	5694.9	6018.0	6689.1	7251.0	6334.4
50°	6502.2	6430.3	5957.6	5768.7	5954.7	6115.8	6321.0	6764.9	7521.3	8069.8	6937.4
52.5°	6778.3	6724.6	6285.5	6161.8	6530.0	6752.4	7031.4	7566.4	8374.6	8875.0	7444.6
55°	7027.6	6989.2	6638.3	6651.7	7206.9	7496.4	7847.3	8479.1	9304.6	9593.1	7874.2
57.5°	7308.5	7259.6	7041.0	7266.3	8076.4	8452.2	8908.6	9505.0	10177.0	10231.7	8201.1
60°	7591.3	7549.1	7487.8	7975.7	9180.9	9575.8	10008.2	10499.2	11062.0	10727.4	8181.9
62.5°	7836.7	7841.5	7949.9	8720.7	10262.3	10719.7	11246.9	11732.1	11862.4	10813.6	7576.9
65°	8252.9	8328.6	8651.7	9775.3	11784.8	12396.5	13043.6	12966.0	12083.9	10007.3	6279.8
67.5°	8747.6	8880.8	9535.6	11180.9	13709.0	14521.1	14771.3	13245.0	11197.1	8134.9	4476.3
70°	8697.6	8880.8	9917.2	12228.8	15294.8	15839.4	15080.0	11987.1	8891.4	5314.3	2377.6
72.5°	7723.6	7985.4	9139.7	11748.4	14795.2	14747.4	13091.6	8936.4	5282.6	2134.2	929.0
75°	5886.7	6151.3	7144.5	9281.5	11693.8	11291.1	9289.2	4936.6	2004.7	847.5	585.7
77.5°	3386.3	3591.5	4358.4	5692.0	7418.7	7005.5	5170.5	2195.6	976.0	590.5	457.4
80°	1890.6	2004.7	2470.6	2887.7	3635.6	3332.6	2313.4	1364.3	728.6	428.5	352.8
82.5°	1494.6	1596.3	1998.0	1821.6	1660.6	1532.1	1328.8	1214.8	582.0	270.4	210.9
85°	1305.8	1402.7	1691.2	1434.3	1134.1	1040.2	1079.5	1195.5	452.6	163.0	180.2
87.5°	1209.9	1339.3	1507.1	1105.4	883.0	782.4	996.1	1310.6	145.8	101.6	72.8
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°	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8	2862.8
2.5°	2828.3	2812.9	2788.1	2766.0	2731.5	2713.3	2693.1	2678.7	2667.2	2657.6	2673.0
5°	2741.0	2712.3	2659.6	2603.0	2535.9	2483.1	2439.0	2397.8	2369.1	2349.8	2363.3
7.5°	2658.5	2611.6	2529.1	2426.5	2311.6	2213.8	2133.2	2062.3	2013.4	1981.8	1994.1
10°	2611.6	2553.1	2425.6	2264.5	2094.8	1942.4	1815.8	1706.6	1630.8	1587.7	1594.4
12.5°	2600.1	2524.3	2348.0	2126.5	1894.5	1682.5	1504.2	1352.8	1246.4	1190.7	1192.7
15°	2608.7	2511.9	2275.0	1994.1	1700.8	1433.4	1210.9	1026.8	903.2	839.8	838.9
17.5°	2623.2	2502.3	2198.4	1851.3	1504.2	1193.7	945.3	765.1	655.8	605.0	601.1
20°	2638.5	2487.0	2112.1	1697.0	1300.1	971.2	740.1	599.2	530.2	502.4	500.4
22.5°	2660.5	2473.6	2023.0	1534.0	1099.7	790.9	608.8	513.9	477.4	463.1	461.1
25°	2696.0	2466.8	1928.1	1364.3	919.4	661.5	530.2	471.7	450.6	441.0	440.1
27.5°	2755.4	2476.5	1838.9	1199.4	772.7	574.3	486.1	450.6	435.3	426.7	425.6
30°	2832.1	2506.1	1744.9	1043.1	658.7	514.9	459.2	436.2	423.8	415.1	415.1
32.5°	2959.6	2556.0	1646.1	908.0	577.1	473.6	439.2	423.8	413.2	406.5	405.5
35°	3147.5	2650.0	1554.1	795.8	518.6	443.9	421.9	410.3	402.6	398.8	398.8
37.5°	3420.7	2798.6	1472.6	715.2	483.2	423.8	405.5	396.9	392.1	392.1	392.1
40°	3788.0	3003.7	1406.5	661.5	463.1	409.4	393.1	386.4	383.5	384.4	384.4
42.5°	4241.5	3270.3	1362.4	624.1	453.5	400.8	384.4	378.7	375.8	374.9	375.8
45°	4758.3	3573.3	1357.6	596.4	443.9	395.0	378.7	373.0	367.2	363.4	363.4
47.5°	5260.6	3881.0	1396.8	586.8	433.3	388.3	373.9	368.2	359.6	350.9	350.9
50°	5704.5	4142.7	1449.6	590.5	429.5	378.7	366.2	363.4	350.0	340.3	339.4
52.5°	6057.3	4344.1	1492.8	602.1	433.3	371.9	356.6	357.6	343.2	332.7	331.7
55°	6340.1	4476.3	1481.2	613.6	442.0	368.2	348.0	350.0	338.4	327.9	327.9
57.5°	6463.8	4427.4	1353.8	604.1	448.7	369.1	341.4	349.0	339.4	329.8	329.8
60°	6198.3	3993.2	1115.0	561.8	440.1	366.2	338.4	352.8	351.9	342.3	341.4
62.5°	5394.8	3215.6	864.8	499.5	410.3	351.9	330.7	351.9	362.4	359.6	358.5
65°	4158.1	2290.4	660.6	432.4	370.1	327.9	310.7	329.8	344.2	348.0	347.1
67.5°	2698.9	1403.6	509.1	369.1	325.0	300.1	284.8	293.4	296.2	296.2	294.3
70°	1326.9	755.4	405.5	310.7	279.0	270.4	261.8	257.0	252.2	248.3	248.3
72.5°	654.8	493.8	333.7	262.7	240.6	236.8	234.9	229.1	225.3	220.5	218.6
75°	484.2	401.7	283.8	221.5	207.0	203.3	207.0	202.3	201.3	197.5	195.6
77.5°	397.9	342.3	244.5	189.9	177.4	170.6	176.5	177.4	178.3	172.6	170.6
80°	323.0	289.5	204.2	157.2	145.8	141.0	144.7	152.4	154.4	145.8	141.9
82.5°	232.9	236.8	164.9	122.8	113.1	109.3	116.9	126.5	128.5	116.0	113.1
85°	195.6	197.5	126.5	87.3	77.6	71.9	84.4	93.9	100.7	88.2	85.3
87.5°	81.5	116.0	72.8	48.9	43.2	37.4	45.0	49.8	60.4	55.6	54.6
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)