

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: P269228

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269228  
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-SL2-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 16511.5 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 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

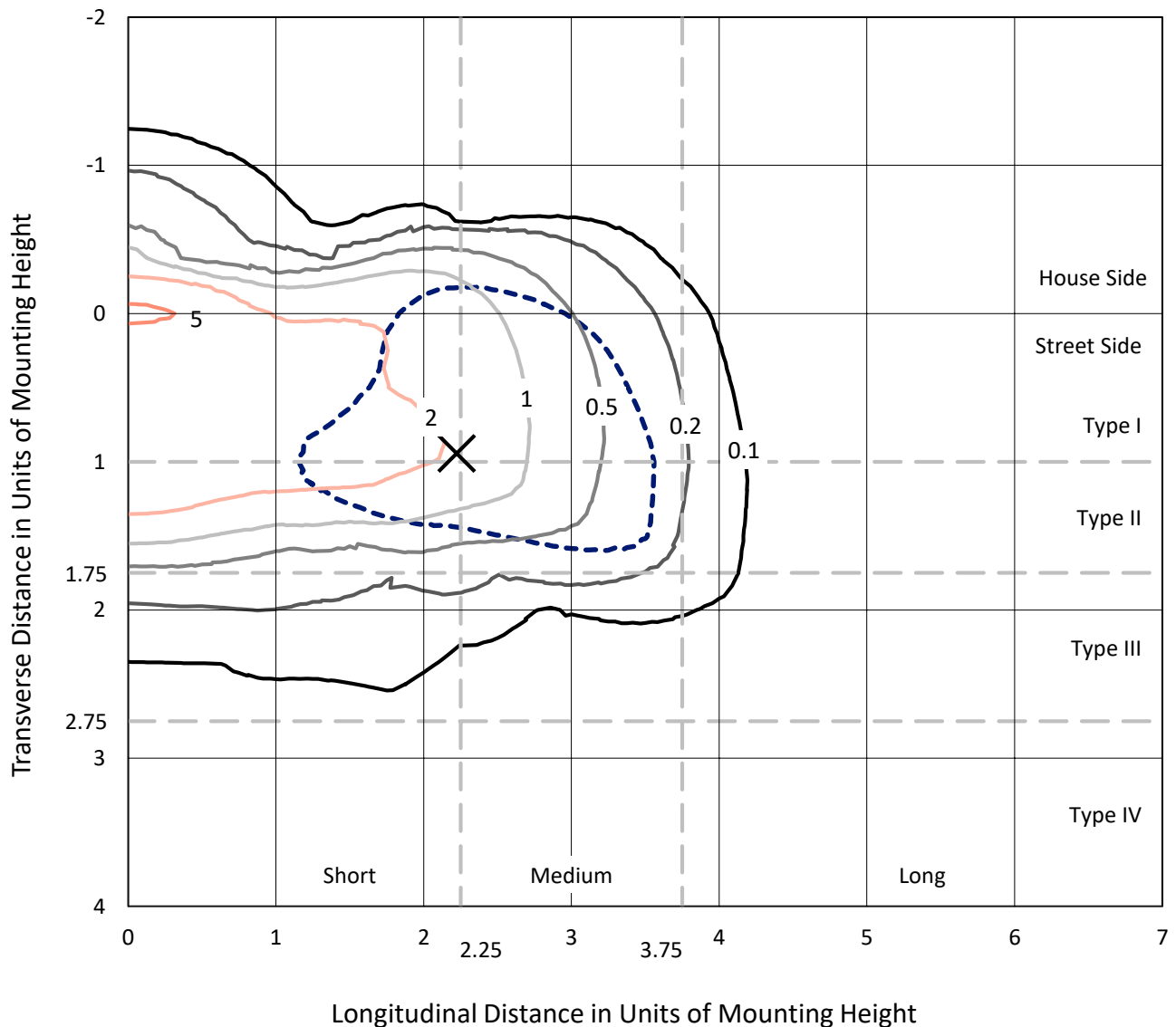


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### Iso-Footcandle Lines of Horizontal Illumination

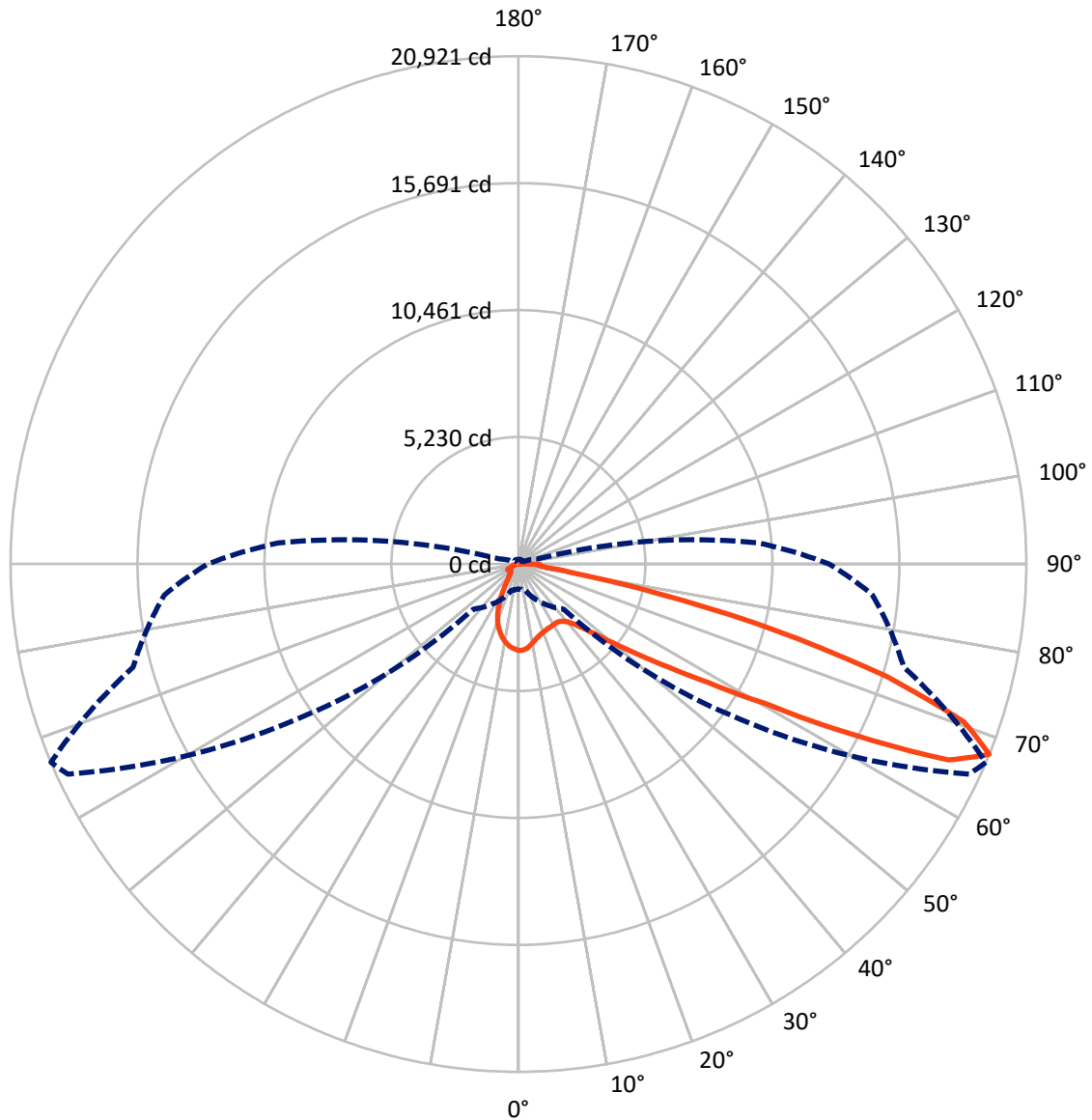
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2735.8	0.0	2735.8
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	13775.7	0.0	13775.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	16511.5	0.0	16511.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.9	1.8
10°-20°	703.1	4.3
20°-30°	953.0	5.8
30°-40°	1354.8	8.2
40°-50°	2266.6	13.7
50°-60°	3585.8	21.7
60°-70°	4567.9	27.7
70°-80°	2392.7	14.5
80°-90°	383.7	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°	16511.5	100.0
0°-180°	16511.5	100.0



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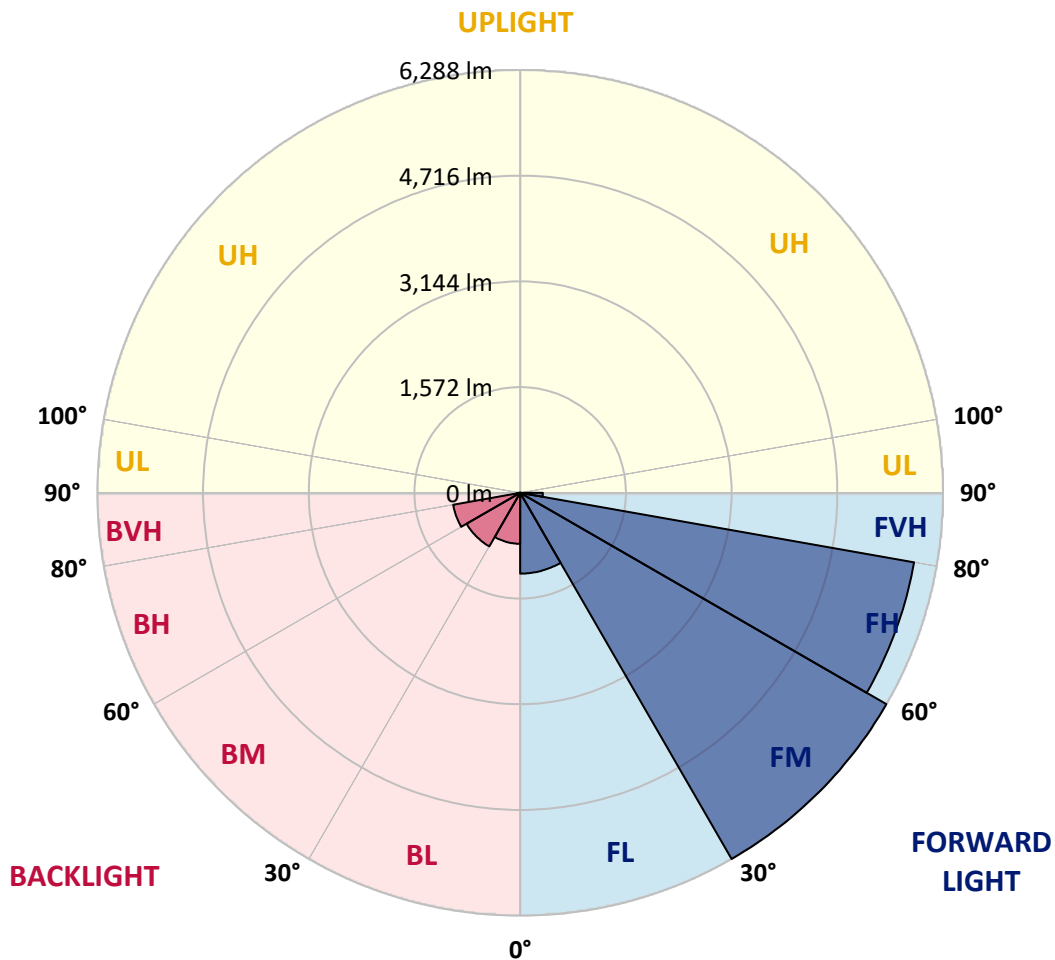
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.6	7.3			
FM (30°-60°)	6287.9	38.1			
FH (60°-80°)	5948.7	36.0			G3/7500
FVH (80°-90°)	337.4	2.0			G3/500
BL (0°-30°)	758.3	4.6	B2/1000		
BM (30°-60°)	919.3	5.6	B1/1000		
BH (60°-80°)	1011.9	6.1	B3/2500		G3/2500
BVH (80°-90°)	46.3	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°	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3414.9	3420.7	3438.5	3449.9	3501.2	3523.2	3538.8	3554.1	3556.6	3563.9	3556.6
5°	3056.7	3068.9	3102.2	3139.7	3239.1	3317.3	3399.5	3485.0	3500.4	3555.9	3571.2
7.5°	2778.9	2775.8	2803.4	2848.2	2949.9	3058.3	3202.4	3372.5	3406.0	3530.6	3590.7
10°	2576.2	2573.9	2603.1	2649.6	2746.4	2849.1	3011.8	3244.8	3292.0	3490.6	3609.5
12.5°	2426.4	2427.2	2456.5	2507.9	2606.4	2709.7	2875.0	3121.0	3181.3	3444.2	3629.1
15°	2327.1	2333.5	2357.2	2411.8	2507.9	2611.3	2773.2	3028.1	3095.6	3407.6	3651.0
17.5°	2293.7	2304.3	2312.4	2352.3	2434.5	2538.0	2696.7	2959.7	3031.4	3382.4	3670.6
20°	2324.6	2336.9	2321.4	2335.2	2387.3	2478.6	2636.5	2906.0	2979.3	3353.8	3673.0
22.5°	2457.4	2468.8	2423.2	2383.3	2380.0	2435.3	2586.8	2863.6	2939.4	3332.7	3673.9
25°	2691.1	2698.4	2621.9	2529.0	2438.7	2419.9	2551.8	2834.3	2915.0	3313.9	3658.3
27.5°	2977.7	2983.5	2895.4	2758.7	2577.1	2456.5	2539.6	2817.3	2901.2	3297.7	3632.3
30°	3326.2	3353.1	3234.9	3062.3	2797.7	2564.8	2564.0	2808.3	2885.6	3270.0	3581.1
32.5°	3682.8	3694.2	3612.8	3437.8	3094.9	2755.5	2632.5	2814.7	2881.7	3236.7	3515.8
35°	4044.3	4059.0	4006.0	3865.1	3501.2	3034.7	2766.1	2853.0	2906.8	3225.3	3470.3
37.5°	4512.5	4532.0	4458.7	4296.0	3995.5	3413.3	2988.2	2949.1	2984.2	3257.8	3456.5
40°	5252.7	5243.6	5029.6	4786.9	4536.1	3897.7	3305.9	3112.0	3132.4	3362.9	3498.8
42.5°	6114.1	6092.1	5723.3	5342.2	5130.5	4484.0	3726.0	3394.5	3390.6	3569.7	3647.7
45°	6801.3	6783.5	6451.2	5981.5	5812.0	5151.7	4269.0	3815.6	3785.4	3897.7	3923.0
47.5°	7173.4	7174.3	6983.0	6599.4	6595.4	6000.0	4966.9	4424.6	4372.5	4425.4	4398.6
50°	7043.3	7060.3	7039.8	6917.8	7310.2	7112.4	5878.0	5273.8	5168.8	5220.9	5117.5
52.5°	6412.9	6434.9	6555.4	6742.7	7610.7	8456.6	7216.7	6329.1	6207.0	6188.2	6073.4
55°	5295.8	5322.6	5568.6	6077.6	7360.7	9359.7	9328.8	7674.2	7479.6	7303.0	7254.1
57.5°	3650.3	3695.0	4090.7	4846.4	6552.1	9632.4	11844.0	9591.7	9195.9	8578.9	8590.2
60°	2057.6	2109.7	2576.2	3262.6	4920.5	9336.1	13757.5	12496.1	11660.7	10073.0	10157.7
62.5°	1308.6	1364.6	1718.8	2266.9	2952.4	7740.2	14541.6	16533.9	15472.9	11914.8	11997.9
65°	1059.3	1083.7	1250.7	1871.1	2143.8	4663.1	13946.2	19860.1	19464.4	14252.5	13864.9
67.5°	1034.0	1042.3	1128.5	1570.6	2056.0	2621.1	11124.2	20482.2	20921.0	16435.4	14642.5
70°	1021.9	1050.4	1271.8	1499.0	1968.8	2210.6	6684.8	18777.2	19470.0	17006.3	13607.5
72.5°	495.9	494.2	640.0	1355.7	2217.9	2293.0	3434.5	15192.9	15888.2	14733.7	11181.9
75°	399.7	365.6	349.4	496.8	2132.4	2367.8	2188.7	10454.0	10957.3	9878.3	6873.8
77.5°	379.4	338.8	310.3	311.1	901.4	2511.1	1854.0	5786.1	5932.5	4462.1	1883.3
80°	314.2	276.9	256.5	289.1	436.4	2391.4	2004.7	2618.6	2402.8	1095.9	626.9
82.5°	218.2	198.6	193.0	242.6	349.4	1704.3	2331.2	1407.0	1179.8	548.9	386.8
85°	139.2	118.8	132.0	176.6	271.9	786.6	2401.2	1096.8	872.1	348.5	218.2
87.5°	64.3	52.1	65.1	97.7	177.5	271.2	2284.7	1231.9	898.1	184.1	137.6
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°	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3563.0	3547.6	3535.4	3512.6	3487.4	3463.0	3441.0	3413.3	3405.1	3397.7	3409.2
5°	3574.5	3559.1	3514.3	3444.2	3366.8	3294.4	3222.0	3160.1	3121.8	3100.6	3112.8
7.5°	3591.7	3569.7	3476.8	3348.2	3208.9	3081.8	2950.8	2845.8	2768.3	2731.7	2742.3
10°	3607.1	3564.7	3413.3	3220.3	3016.8	2827.9	2621.1	2450.0	2323.0	2256.3	2272.5
12.5°	3613.6	3546.0	3324.5	3060.7	2781.4	2504.7	2200.0	1944.4	1762.0	1695.2	1681.4
15°	3620.1	3524.8	3226.8	2879.2	2497.3	2105.6	1678.9	1372.8	1221.3	1188.0	1180.6
17.5°	3621.7	3488.2	3116.1	2682.1	2164.2	1631.0	1148.0	953.6	954.3	1008.0	1014.5
20°	3604.5	3433.6	2981.7	2437.0	1765.3	1127.7	788.3	754.8	877.7	1012.1	1028.4
22.5°	3565.6	3361.2	2829.5	2151.3	1308.6	742.5	609.9	646.5	805.3	969.8	988.5
25°	3515.8	3273.2	2649.6	1819.8	866.3	530.9	511.3	556.1	663.6	773.5	784.1
27.5°	3448.4	3169.0	2447.6	1440.4	562.7	437.2	450.3	480.5	524.4	573.2	578.1
30°	3361.2	3044.4	2231.7	1050.4	425.1	393.3	412.1	428.3	447.0	474.8	477.1
32.5°	3261.0	2924.7	2010.3	725.6	377.0	370.6	385.2	393.3	407.9	425.1	426.6
35°	3177.1	2810.7	1780.7	512.9	356.6	353.4	363.2	366.4	380.3	398.9	400.6
37.5°	3129.2	2717.9	1543.7	413.6	342.9	337.9	343.6	343.6	363.2	390.9	395.0
40°	3132.4	2666.6	1306.9	373.8	331.4	324.8	325.6	325.6	351.0	381.2	383.4
42.5°	3221.1	2679.6	1096.8	358.2	322.4	315.1	311.1	313.5	334.7	354.2	355.8
45°	3429.5	2771.7	899.7	348.5	313.5	311.1	302.1	301.3	309.3	318.4	318.4
47.5°	3771.5	2953.3	766.3	342.0	306.1	305.3	294.7	284.1	283.3	286.6	286.6
50°	4327.7	3265.9	676.7	334.7	301.3	294.7	282.5	266.3	260.6	263.1	263.1
52.5°	5161.4	3823.6	642.5	324.8	290.7	280.1	266.3	250.0	245.1	245.9	245.9
55°	6255.0	4680.3	637.5	313.5	279.4	262.1	250.7	238.6	232.9	234.5	234.5
57.5°	7591.1	5864.9	724.7	295.5	263.8	244.2	237.7	229.5	225.6	228.0	227.2
60°	9215.5	7415.2	1074.8	276.9	248.3	228.0	228.0	221.5	218.2	220.7	219.8
62.5°	11086.7	9195.9	1511.2	263.1	232.0	215.0	218.2	215.0	211.7	213.3	212.4
65°	12746.1	10356.3	1415.1	252.5	215.8	202.7	208.4	206.8	204.4	206.0	205.3
67.5°	12794.1	9926.5	794.7	241.0	200.3	190.5	198.6	197.8	196.2	197.8	197.1
70°	11418.0	8381.7	447.9	219.8	184.1	175.9	187.2	186.5	184.8	188.0	187.2
72.5°	9148.0	6082.3	327.3	193.8	167.8	160.3	173.5	172.7	172.7	177.5	175.1
75°	5264.1	3130.0	261.3	166.0	150.6	144.9	156.3	157.2	158.8	165.3	160.3
77.5°	1500.7	975.5	213.3	140.9	129.4	127.0	138.3	140.0	140.9	148.2	141.8
80°	557.8	449.4	175.9	118.0	105.8	106.7	117.3	119.7	120.6	127.7	119.7
82.5°	355.8	296.4	142.6	91.2	83.1	82.3	95.3	98.5	98.5	99.4	94.4
85°	207.6	177.5	107.4	65.9	58.6	56.1	70.8	76.5	74.1	72.5	69.2
87.5°	139.2	122.1	65.9	36.7	31.8	30.2	41.5	45.6	43.9	41.5	39.0
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)