

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: P194492

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15821 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

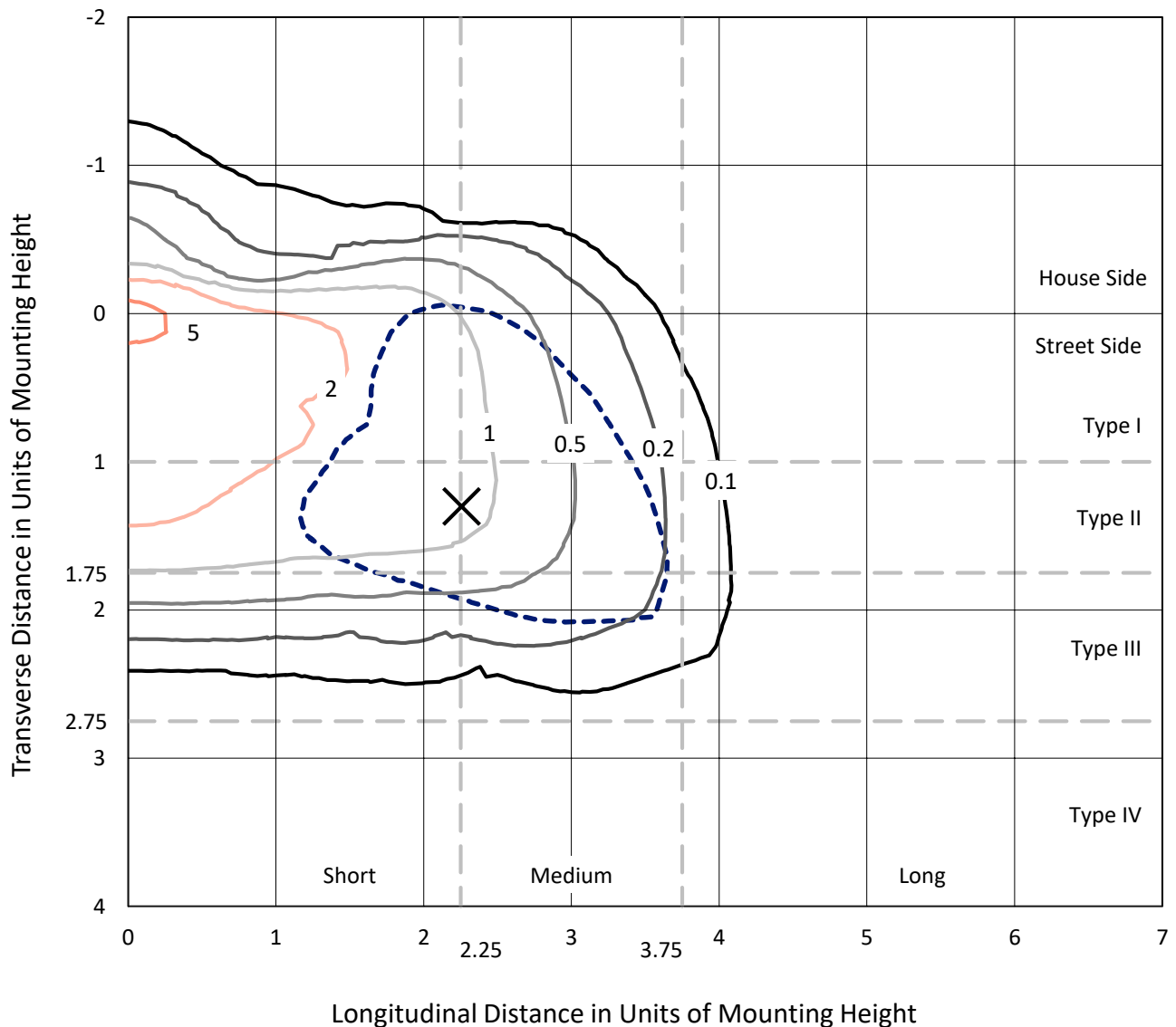
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

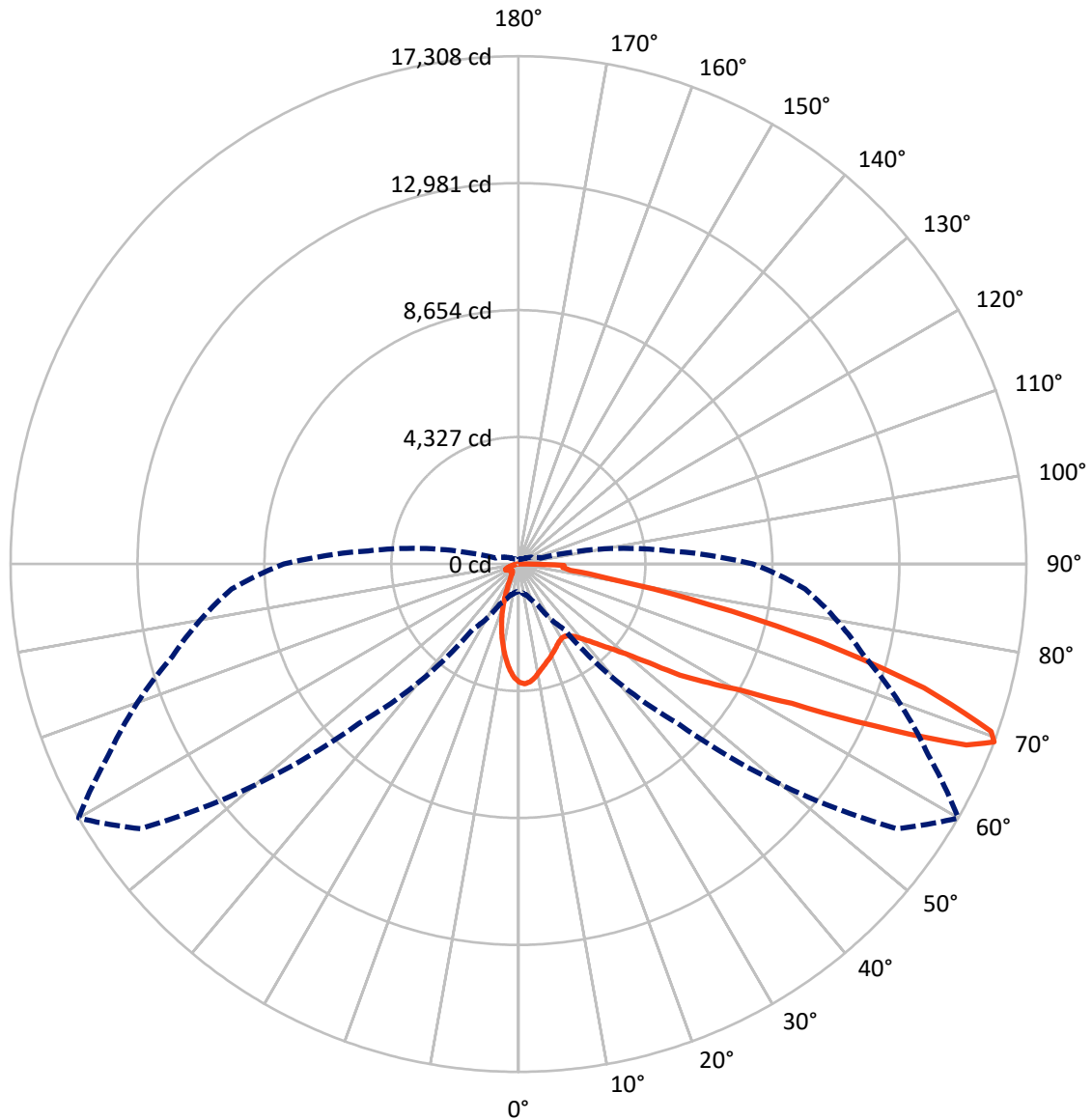
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2250.8	0.0	2250.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	13570.2	0.0	13570.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	15821.0	0.0	15821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.9	2.2
10°-20°	726.3	4.6
20°-30°	925.4	5.8
30°-40°	1272.1	8.0
40°-50°	2064.2	13.0
50°-60°	3310.4	20.9
60°-70°	4405.9	27.8
70°-80°	2378.9	15.0
80°-90°	396.9	2.5
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°	15821.0	100.0
0°-180°	15821.0	100.0

**Coefficient of Utilization**



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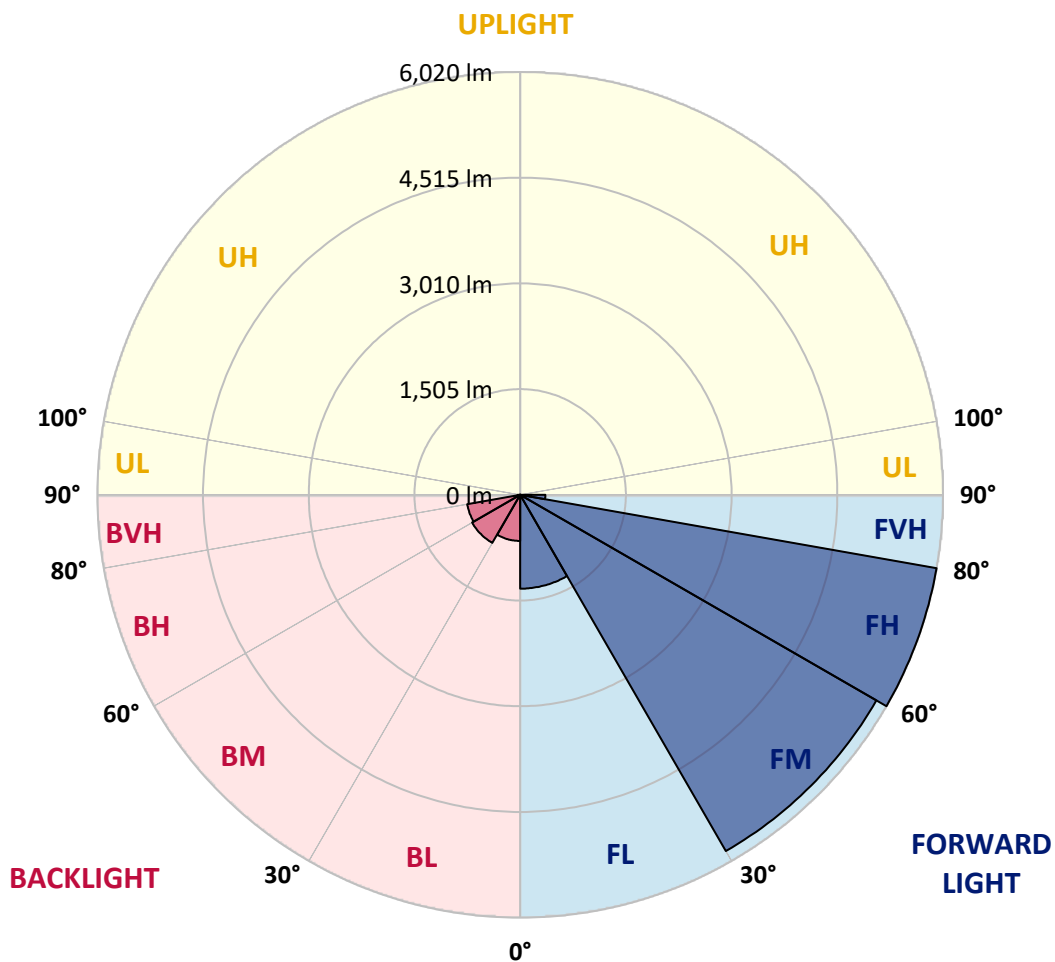
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.9	8.4			
FM (30°-60°)	5856.0	37.0			
FH (60°-80°)	6019.6	38.0			G3/7500
FVH (80°-90°)	358.7	2.3			G3/500
BL (0°-30°)	656.6	4.2	B2/1000		
BM (30°-60°)	790.8	5.0	B1/1000		
BH (60°-80°)	765.2	4.8	B2/1000		G2/1000
BVH (80°-90°)	38.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4
2.5°	4114.0	4123.1	4119.3	4117.0	4123.9	4113.2	4091.0	4084.2	4073.5	4048.2	4005.4
5°	3959.6	3987.1	3985.6	4006.2	4040.6	4049.8	4039.8	4041.4	4021.5	3990.2	3919.1
7.5°	3692.9	3704.3	3710.4	3755.5	3818.2	3868.6	3911.4	3925.2	3916.0	3889.3	3797.6
10°	3417.7	3426.9	3441.4	3494.2	3573.6	3643.2	3724.2	3770.8	3790.7	3786.1	3683.7
12.5°	3181.6	3190.8	3209.9	3269.5	3364.2	3449.8	3567.5	3625.6	3673.0	3701.3	3591.2
15°	2969.9	2989.8	3008.1	3076.9	3183.1	3295.5	3428.4	3501.8	3575.2	3638.6	3509.4
17.5°	2804.8	2824.7	2835.4	2898.0	3011.2	3148.7	3304.6	3391.0	3482.7	3586.6	3428.4
20°	2709.3	2718.4	2713.9	2749.0	2850.7	2996.6	3181.6	3281.7	3392.5	3537.7	3347.4
22.5°	2682.5	2683.3	2666.5	2662.7	2728.4	2851.4	3050.1	3171.6	3307.7	3505.6	3277.9
25°	2747.5	2745.2	2699.3	2661.9	2668.8	2740.6	2923.3	3064.7	3236.6	3498.7	3224.4
27.5°	2891.9	2898.8	2830.8	2760.5	2690.9	2688.6	2827.0	2976.0	3178.5	3530.1	3201.5
30°	3094.5	3105.9	3033.3	2943.9	2813.2	2705.5	2789.5	2923.3	3142.6	3595.0	3197.6
32.5°	3316.1	3328.3	3273.3	3179.3	3008.1	2809.4	2815.5	2927.9	3141.1	3686.0	3223.6
35°	3552.2	3566.0	3537.7	3458.2	3267.9	3001.2	2914.9	3002.0	3190.8	3825.1	3293.2
37.5°	3815.9	3837.3	3845.0	3769.3	3566.0	3254.2	3077.6	3142.6	3303.1	4018.4	3420.8
40°	4195.7	4225.6	4223.3	4114.7	3907.6	3595.8	3329.1	3345.9	3478.1	4276.8	3624.8
42.5°	4923.3	4929.4	4739.1	4503.0	4283.6	3955.0	3625.6	3611.9	3719.6	4603.9	3925.2
45°	5848.8	5823.6	5400.2	4943.9	4676.5	4367.7	4011.6	3944.3	4026.1	5002.8	4301.2
47.5°	6616.9	6558.8	6023.8	5394.1	5092.2	4816.3	4464.8	4347.1	4392.2	5455.2	4787.3
50°	6883.6	6840.1	6396.8	5768.6	5485.8	5363.5	5022.7	4856.1	4868.3	5994.8	5356.6
52.5°	6826.3	6820.2	6524.4	6015.4	5854.2	5938.2	5812.9	5587.4	5468.2	6594.0	5971.1
55°	6691.0	6704.0	6597.0	6302.8	6275.3	6493.1	6845.4	6678.8	6308.1	7198.5	6606.2
57.5°	6221.0	6254.6	6490.0	6664.3	6953.2	7277.2	7676.9	7629.5	7212.2	7851.9	7361.3
60°	5012.0	5089.9	5721.2	6594.0	7650.9	8664.3	8843.2	8733.1	8144.6	8662.8	8358.6
62.5°	3511.7	3592.8	4343.2	5709.0	7536.3	10231.0	10928.0	10453.4	9483.6	9857.3	9649.4
65°	1880.1	1919.0	2492.2	3961.1	6362.4	10554.3	13975.1	13252.9	11603.6	11330.0	10753.8
67.5°	1037.1	1058.5	1277.8	2000.0	4075.0	9294.1	15916.3	16462.0	14253.3	12310.6	10552.8
69°	937.7	957.6	1101.3	1514.7	2726.9	7684.6	15726.8	17308.0	15415.0	12213.5	9809.9
70°	917.1	935.4	1064.6	1396.3	2207.2	6334.1	15091.7	17091.7	15691.6	11865.8	9161.9
72.5°	825.4	845.3	970.6	1254.1	1886.2	3157.9	11954.4	14451.2	14246.4	10288.4	6949.3
75°	769.6	787.9	1000.4	1228.2	1805.9	1998.5	7881.0	10650.6	10472.5	7197.0	3747.1
77.5°	329.4	327.9	463.9	1039.4	1832.7	1935.1	4234.7	6653.6	6070.5	3076.1	1076.1
80°	220.1	216.3	220.1	305.7	1680.6	1945.8	2218.6	3377.2	2551.1	784.1	530.4
82.5°	189.5	186.5	193.4	186.5	590.8	2220.9	1886.2	1796.0	1212.9	445.6	262.9
85°	127.6	122.3	166.6	167.4	279.0	1973.3	2124.6	1517.0	981.3	264.4	129.9
87.5°	61.1	59.6	97.1	118.5	163.5	801.7	2383.7	1554.5	989.7	135.3	61.9
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°	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4	4031.4
2.5°	3992.5	3961.1	3930.5	3893.9	3855.7	3812.9	3791.5	3770.1	3764.7	3758.6	3737.2
5°	3882.4	3838.1	3761.6	3677.6	3588.9	3502.6	3436.8	3395.6	3364.2	3348.2	3319.9
7.5°	3740.3	3675.3	3541.5	3396.3	3247.3	3111.3	2993.6	2919.4	2849.1	2816.3	2778.8
10°	3605.0	3507.9	3300.0	3086.1	2872.1	2666.5	2473.1	2336.3	2214.8	2146.8	2098.6
12.5°	3488.8	3355.8	3067.7	2778.1	2484.6	2191.9	1902.2	1674.5	1484.2	1384.1	1332.9
15°	3375.7	3215.2	2846.8	2479.2	2102.5	1704.3	1323.7	1065.4	907.9	845.3	823.9
17.5°	3273.3	3067.7	2625.2	2178.1	1708.1	1226.6	889.6	747.4	687.1	666.4	659.5
20°	3162.5	2918.7	2395.2	1863.2	1296.9	857.5	694.7	632.0	607.6	601.5	598.4
22.5°	3055.5	2771.9	2175.1	1526.2	931.6	661.8	596.9	570.9	567.1	572.4	572.4
25°	2964.5	2640.5	1937.4	1173.9	684.0	557.1	534.2	528.1	542.6	562.5	566.3
27.5°	2896.5	2532.7	1684.4	866.7	544.9	484.5	483.8	493.7	529.6	567.8	575.5
30°	2849.9	2430.3	1413.9	625.2	457.0	426.5	438.7	460.1	512.8	567.1	581.6
32.5°	2826.2	2354.7	1131.9	483.8	391.3	374.5	395.1	421.1	473.1	523.5	542.6
35°	2844.5	2298.9	865.9	403.5	345.4	332.4	353.8	379.1	409.6	431.0	445.6
37.5°	2913.3	2276.7	653.4	361.5	314.1	301.9	318.7	333.2	345.4	351.6	358.4
40°	3061.6	2300.4	523.5	340.1	296.5	281.2	288.1	293.5	301.1	307.2	310.3
42.5°	3280.2	2371.5	469.3	331.7	287.4	265.2	263.7	266.0	275.9	287.4	289.7
45°	3585.9	2496.8	465.4	337.0	282.8	252.2	245.3	248.4	263.7	281.2	284.3
47.5°	3976.4	2687.9	496.0	353.1	286.6	245.3	233.9	237.7	256.8	280.5	284.3
50°	4449.5	2954.6	547.2	376.8	303.4	246.9	230.0	232.3	252.2	278.2	282.0
52.5°	5008.1	3332.9	603.0	399.7	321.0	256.8	233.1	227.7	246.1	269.0	273.6
55°	5629.5	3818.2	660.3	420.3	330.2	269.0	239.2	221.6	234.6	253.7	257.6
57.5°	6392.2	4496.9	759.7	440.2	336.3	277.4	245.3	215.5	220.1	233.9	236.9
60°	7424.7	5456.8	934.7	473.1	350.0	280.5	244.6	210.2	205.6	213.2	214.8
62.5°	8662.0	6499.2	1080.7	514.3	373.0	282.8	240.0	206.3	193.4	193.4	194.9
65°	9396.5	6778.2	999.6	548.7	392.1	280.5	234.6	202.5	184.2	175.8	176.5
67.5°	8773.6	5961.2	856.7	555.6	391.3	269.8	226.2	195.6	175.0	162.0	161.3
69°	7993.3	5143.4	792.5	537.3	373.0	256.0	215.5	188.0	168.1	154.4	153.6
70°	7364.3	4644.4	750.5	517.4	353.1	246.1	207.1	181.1	162.8	149.8	148.3
72.5°	5354.4	3043.3	641.2	444.8	291.2	206.3	178.8	159.0	145.2	137.6	136.0
75°	2675.6	1451.3	520.5	360.7	223.2	165.1	146.7	133.0	126.1	124.6	123.8
77.5°	878.9	664.9	372.2	269.0	165.8	129.2	118.5	108.5	107.0	111.6	110.1
80°	483.0	386.7	236.2	178.1	113.1	94.8	93.2	87.9	90.2	97.8	96.3
82.5°	246.1	201.0	146.0	107.0	76.4	68.0	74.1	71.1	74.1	81.0	80.2
85°	121.5	110.1	92.5	65.0	50.4	43.6	52.7	55.0	56.6	61.9	61.9
87.5°	70.3	65.0	48.9	30.6	25.2	22.9	30.6	29.8	35.2	38.2	37.4
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)