

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: P191180

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191180  
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-02-LED-E1-SL3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA 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: 13667.6 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

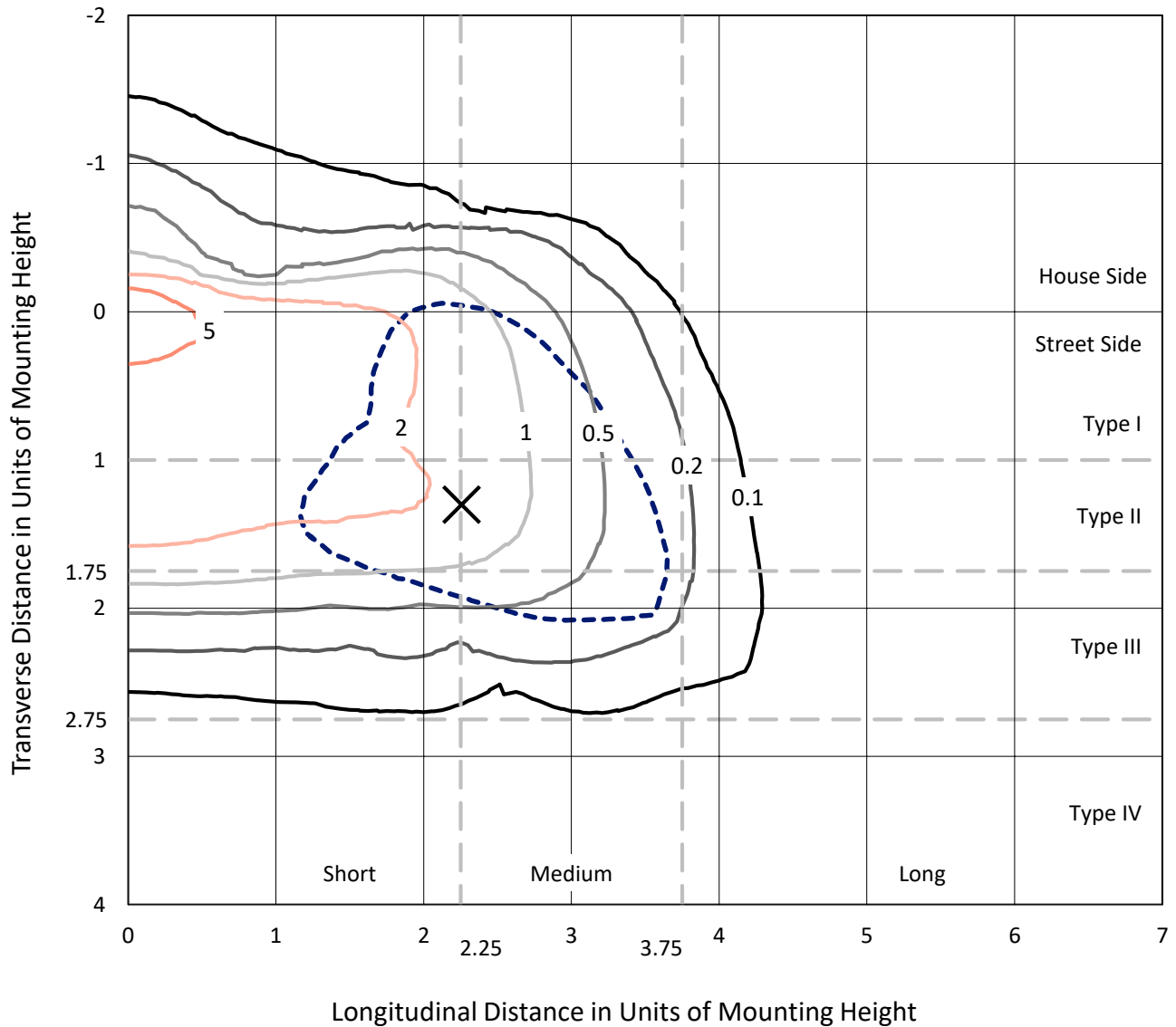
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

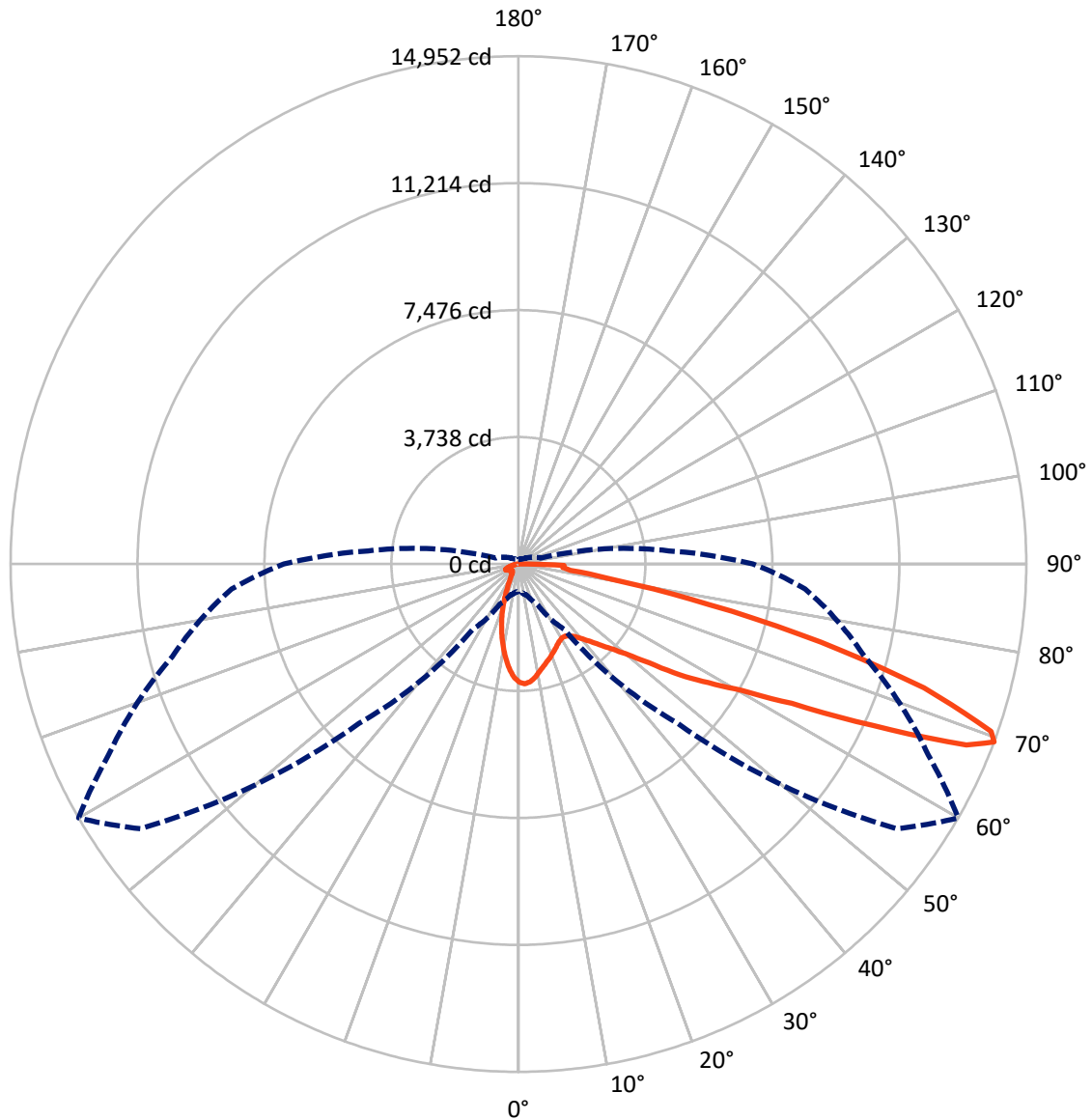
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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	1944.5	0.0	1944.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	11723.2	0.0	11723.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	13667.6	0.0	13667.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	2.2
10°-20°	627.4	4.6
20°-30°	799.4	5.8
30°-40°	1099.0	8.0
40°-50°	1783.2	13.0
50°-60°	2859.9	20.9
60°-70°	3806.2	27.8
70°-80°	2055.1	15.0
80°-90°	342.9	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°	13667.6	100.0
0°-180°	13667.6	100.0



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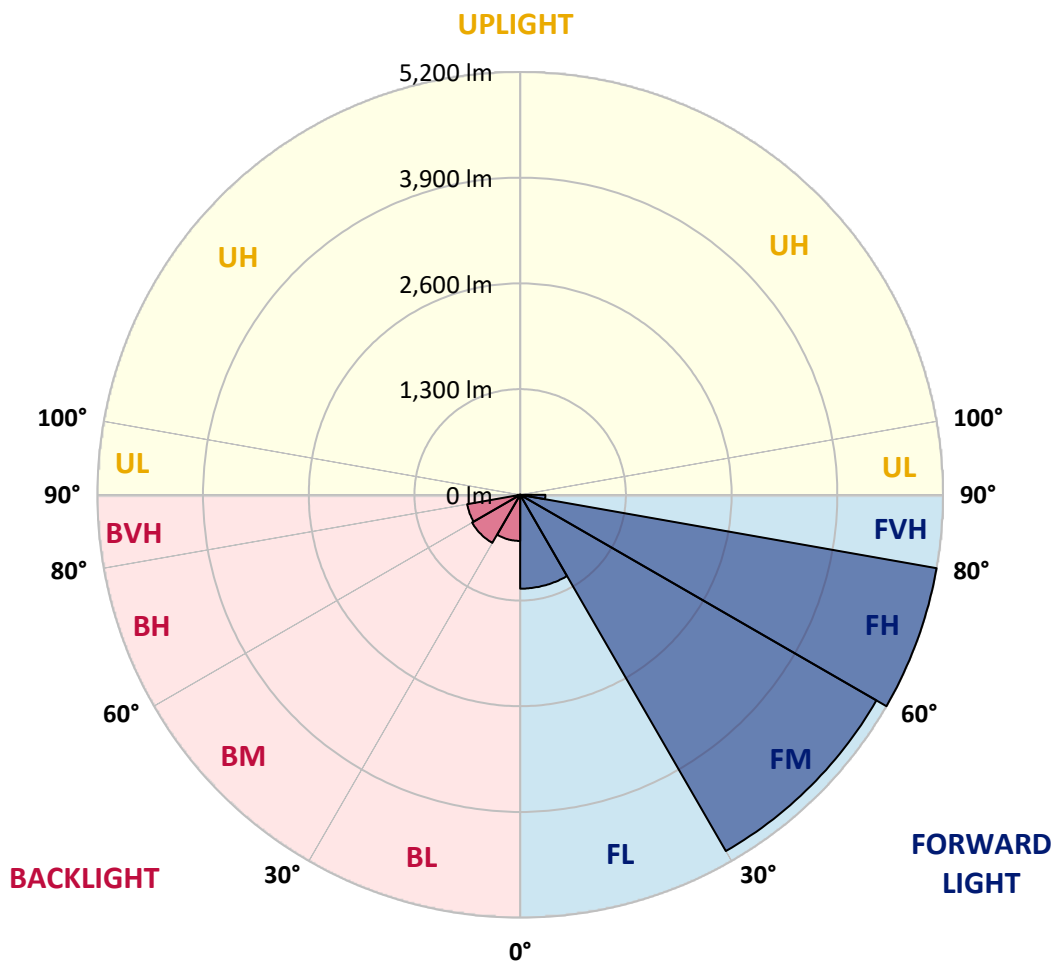
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1154.0	8.4			
FM	(30°-60°)	5059.0	37.0			
FH	(60°-80°)	5200.3	38.0			G3/7500
FVH	(80°-90°)	309.9	2.3			G3/500
BL	(0°-30°)	567.3	4.2	B2/1000		
BM	(30°-60°)	683.1	5.0	B1/1000		
BH	(60°-80°)	661.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	33.0	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°	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7
2.5°	3554.0	3561.9	3558.6	3556.7	3562.6	3553.3	3534.2	3528.3	3519.1	3497.3	3460.2
5°	3420.6	3444.5	3443.2	3460.9	3490.6	3498.6	3490.0	3491.3	3474.1	3447.0	3385.7
7.5°	3190.3	3200.1	3205.4	3244.4	3298.5	3342.1	3379.1	3391.0	3383.0	3359.9	3280.7
10°	2952.5	2960.5	2973.0	3018.6	3087.3	3147.3	3217.3	3257.6	3274.8	3270.8	3182.3
12.5°	2748.6	2756.4	2773.0	2824.5	2906.3	2980.3	3081.9	3132.2	3173.1	3197.5	3102.4
15°	2565.7	2582.8	2598.7	2658.1	2749.9	2846.9	2961.9	3025.2	3088.6	3143.3	3031.8
17.5°	2423.1	2440.2	2449.5	2503.6	2601.4	2720.1	2854.9	2929.4	3008.7	3098.5	2961.9
20°	2340.5	2348.5	2344.5	2374.9	2462.7	2588.8	2748.6	2835.0	2930.8	3056.2	2891.8
22.5°	2317.4	2318.1	2303.6	2300.2	2357.0	2463.4	2635.0	2740.0	2857.5	3028.4	2831.7
25°	2373.6	2371.5	2331.9	2299.6	2305.5	2367.6	2525.4	2647.5	2796.0	3022.5	2785.5
27.5°	2498.4	2504.3	2445.5	2384.8	2324.7	2322.7	2442.2	2571.0	2745.9	3049.6	2765.8
30°	2673.3	2683.2	2620.5	2543.3	2430.3	2337.2	2409.9	2525.4	2714.9	3105.8	2762.4
32.5°	2864.8	2875.3	2827.7	2746.5	2598.7	2427.1	2432.3	2529.3	2713.6	3184.3	2784.9
35°	3068.8	3080.6	3056.2	2987.5	2823.1	2592.8	2518.1	2593.4	2756.4	3304.4	2844.9
37.5°	3296.6	3315.0	3321.6	3256.3	3080.6	2811.3	2658.8	2714.9	2853.5	3471.5	2955.2
40°	3624.7	3650.4	3648.5	3554.7	3375.7	3106.4	2875.9	2890.4	3004.7	3694.7	3131.5
42.5°	4253.2	4258.5	4094.1	3890.1	3700.6	3416.7	3132.2	3120.3	3213.4	3977.2	3391.0
45°	5052.8	5031.0	4665.2	4271.0	4039.9	3773.3	3465.6	3407.4	3478.1	4321.9	3715.8
47.5°	5716.2	5666.1	5204.0	4660.0	4399.1	4160.8	3857.0	3755.4	3794.3	4712.7	4135.7
50°	5946.7	5909.1	5526.2	4983.4	4739.1	4633.6	4339.1	4195.1	4205.7	5178.9	4627.5
52.5°	5897.2	5891.9	5636.4	5196.7	5057.4	5130.0	5021.8	4827.0	4724.0	5696.5	5158.4
55°	5780.3	5791.5	5699.2	5445.0	5421.1	5609.4	5913.7	5769.7	5449.6	6218.7	5707.0
57.5°	5374.3	5403.3	5606.7	5757.3	6006.8	6286.7	6632.0	6591.1	6230.6	6783.2	6359.4
60°	4329.8	4397.2	4942.5	5696.5	6609.6	7485.0	7639.5	7544.5	7036.1	7483.7	7220.9
62.5°	3033.8	3103.7	3752.1	4932.0	6510.6	8838.5	9440.6	9030.6	8192.8	8515.7	8336.1
65°	1624.1	1657.8	2153.0	3422.0	5496.4	9117.8	12073.0	11449.1	10024.3	9787.9	9290.1
67.5°	895.9	914.4	1103.9	1727.9	3520.4	8029.0	13750.0	14221.4	12313.4	10635.0	9116.4
69°	810.1	827.3	951.3	1308.6	2355.8	6638.6	13586.2	14952.3	13316.9	10551.1	8474.7
70°	792.3	808.1	919.7	1206.3	1906.8	5472.0	13037.6	14765.5	13555.8	10250.8	7914.9
72.5°	713.1	730.2	838.5	1083.4	1629.5	2728.1	10327.3	12484.3	12307.4	8888.0	6003.5
75°	664.8	680.7	864.3	1061.0	1560.1	1726.5	6808.4	9201.0	9047.2	6217.4	3237.1
77.5°	284.6	283.3	400.8	897.9	1583.2	1671.7	3658.4	5748.0	5244.3	2657.4	929.7
80°	190.2	186.9	190.2	264.1	1451.9	1680.9	1916.7	2917.6	2203.8	677.4	458.2
82.5°	163.8	161.1	167.0	161.1	510.4	1918.6	1629.5	1551.5	1047.8	384.9	227.1
85°	110.3	105.7	143.9	144.5	241.0	1704.7	1835.5	1310.6	847.7	228.4	112.2
87.5°	52.8	51.5	83.9	102.3	141.3	692.5	2059.3	1342.9	855.0	116.8	53.5
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°	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7	3482.7
2.5°	3449.1	3422.0	3395.6	3363.9	3330.8	3293.9	3275.4	3257.0	3252.3	3247.1	3228.5
5°	3353.9	3315.7	3249.7	3177.1	3100.5	3025.9	2969.0	2933.4	2906.3	2892.5	2868.0
7.5°	3231.2	3175.0	3059.5	2934.0	2805.3	2687.8	2586.1	2522.1	2461.3	2433.0	2400.6
10°	3114.3	3030.5	2850.9	2666.0	2481.2	2303.6	2136.5	2018.3	1913.3	1854.6	1813.0
12.5°	3013.9	2899.0	2650.2	2399.9	2146.5	1893.6	1643.3	1446.6	1282.2	1195.7	1151.4
15°	2916.2	2777.6	2459.4	2141.8	1816.2	1472.3	1143.6	920.3	784.4	730.2	711.8
17.5°	2827.7	2650.2	2267.9	1881.6	1475.6	1059.7	768.5	645.7	593.5	575.7	569.8
20°	2732.0	2521.5	2069.1	1609.6	1120.4	740.8	600.2	546.1	524.9	519.6	517.0
22.5°	2639.6	2394.6	1879.1	1318.5	804.9	571.7	515.7	493.2	489.9	494.5	494.5
25°	2561.1	2281.1	1673.6	1014.2	591.0	481.3	461.5	456.2	468.7	485.9	489.3
27.5°	2502.2	2188.0	1455.1	748.7	470.8	418.6	418.0	426.5	457.6	490.5	497.2
30°	2462.0	2099.5	1221.4	540.1	394.9	368.4	379.0	397.4	443.0	489.9	502.5
32.5°	2441.6	2034.1	977.8	418.0	338.1	323.6	341.4	363.8	408.7	452.2	468.7
35°	2457.3	1986.0	748.1	348.6	298.4	287.2	305.7	327.4	353.8	372.4	384.9
37.5°	2516.8	1966.8	564.5	312.3	271.4	260.8	275.3	287.9	298.4	303.7	309.6
40°	2644.8	1987.3	452.2	293.8	256.1	243.0	248.9	253.5	260.1	265.5	268.0
42.5°	2833.7	2048.7	405.4	286.5	248.3	229.1	227.8	229.8	238.3	248.3	250.2
45°	3097.8	2157.0	402.1	291.1	244.3	217.9	212.0	214.6	227.8	243.0	245.6
47.5°	3435.2	2322.0	428.5	305.0	247.6	212.0	202.0	205.3	221.9	242.3	245.6
50°	3843.8	2552.5	472.7	325.5	262.1	213.3	198.8	200.7	217.9	240.3	243.7
52.5°	4326.5	2879.3	520.9	345.3	277.3	221.9	201.4	196.7	212.6	232.4	236.4
55°	4863.3	3298.5	570.4	363.1	285.2	232.4	206.6	191.5	202.6	219.2	222.5
57.5°	5522.2	3884.8	656.2	380.3	290.5	239.7	212.0	186.2	190.2	202.0	204.7
60°	6414.1	4714.1	807.4	408.7	302.4	242.3	211.2	181.6	177.6	184.2	185.6
62.5°	7483.1	5614.6	933.5	444.4	322.2	244.3	207.4	178.3	167.0	167.0	168.4
65°	8117.5	5855.6	863.6	474.0	338.7	242.3	202.6	174.9	159.1	151.8	152.5
67.5°	7579.5	5149.8	740.1	480.0	338.1	233.0	195.4	169.0	151.2	139.9	139.3
69°	6905.3	4443.4	684.7	464.1	322.2	221.2	186.2	162.4	145.3	133.4	132.7
70°	6362.0	4012.2	648.3	446.9	305.0	212.6	178.9	156.5	140.7	129.4	128.1
72.5°	4625.6	2629.1	553.9	384.2	251.5	178.3	154.5	137.3	125.4	118.9	117.5
75°	2311.5	1253.8	449.6	311.6	192.8	142.6	126.7	114.9	108.9	107.6	107.0
77.5°	759.2	574.4	321.5	232.4	143.3	111.6	102.3	93.7	92.5	96.4	95.0
80°	417.3	334.1	204.0	153.9	97.7	81.8	80.5	75.9	77.9	84.5	83.2
82.5°	212.6	173.6	126.1	92.5	66.0	58.7	64.0	61.4	64.0	70.0	69.4
85°	105.0	95.0	79.9	56.2	43.6	37.6	45.5	47.6	48.9	53.5	53.5
87.5°	60.8	56.2	42.2	26.4	21.8	19.8	26.4	25.8	30.4	33.0	32.3
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)