

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: P269145

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269145  
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-03-LED-E1-SL2-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA 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: 15467.2 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

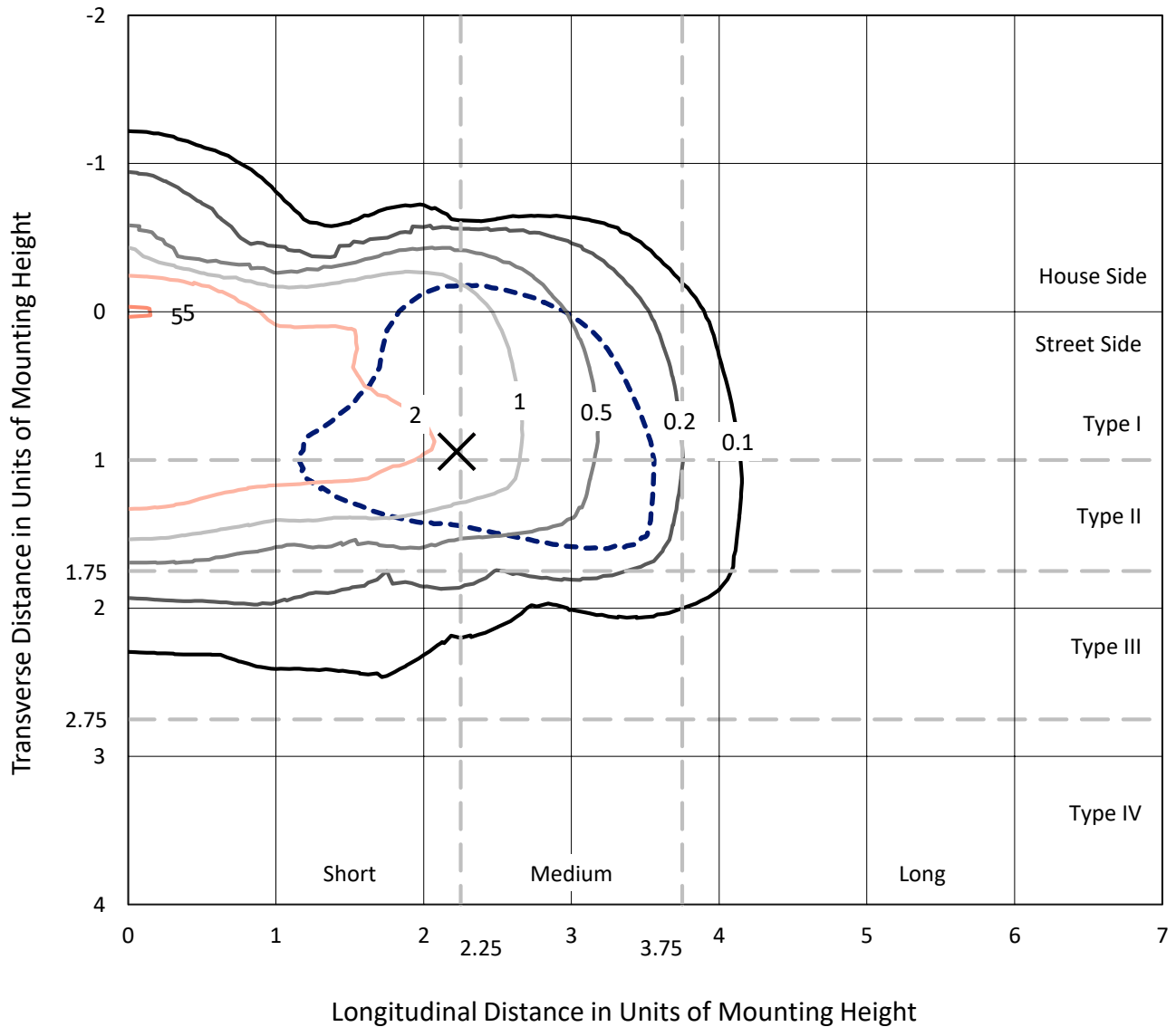
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

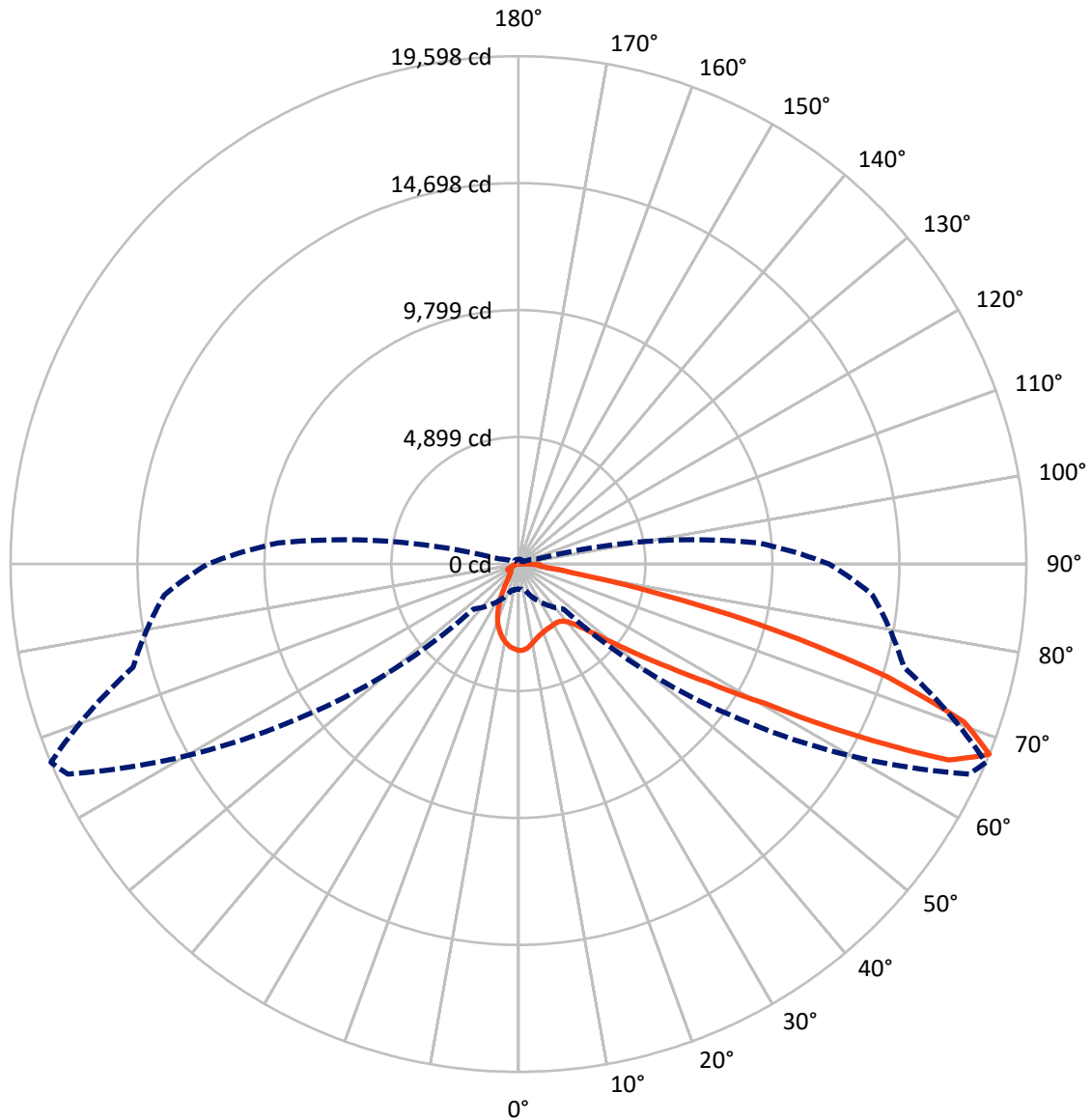
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2562.7	0.0	2562.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	12904.4	0.0	12904.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	15467.2	0.0	15467.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.6	1.8
10°-20°	658.6	4.3
20°-30°	892.7	5.8
30°-40°	1269.1	8.2
40°-50°	2123.3	13.7
50°-60°	3359.0	21.7
60°-70°	4279.0	27.7
70°-80°	2241.3	14.5
80°-90°	359.5	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°	15467.2	100.0
0°-180°	15467.2	100.0

**Coefficient of Utilization**



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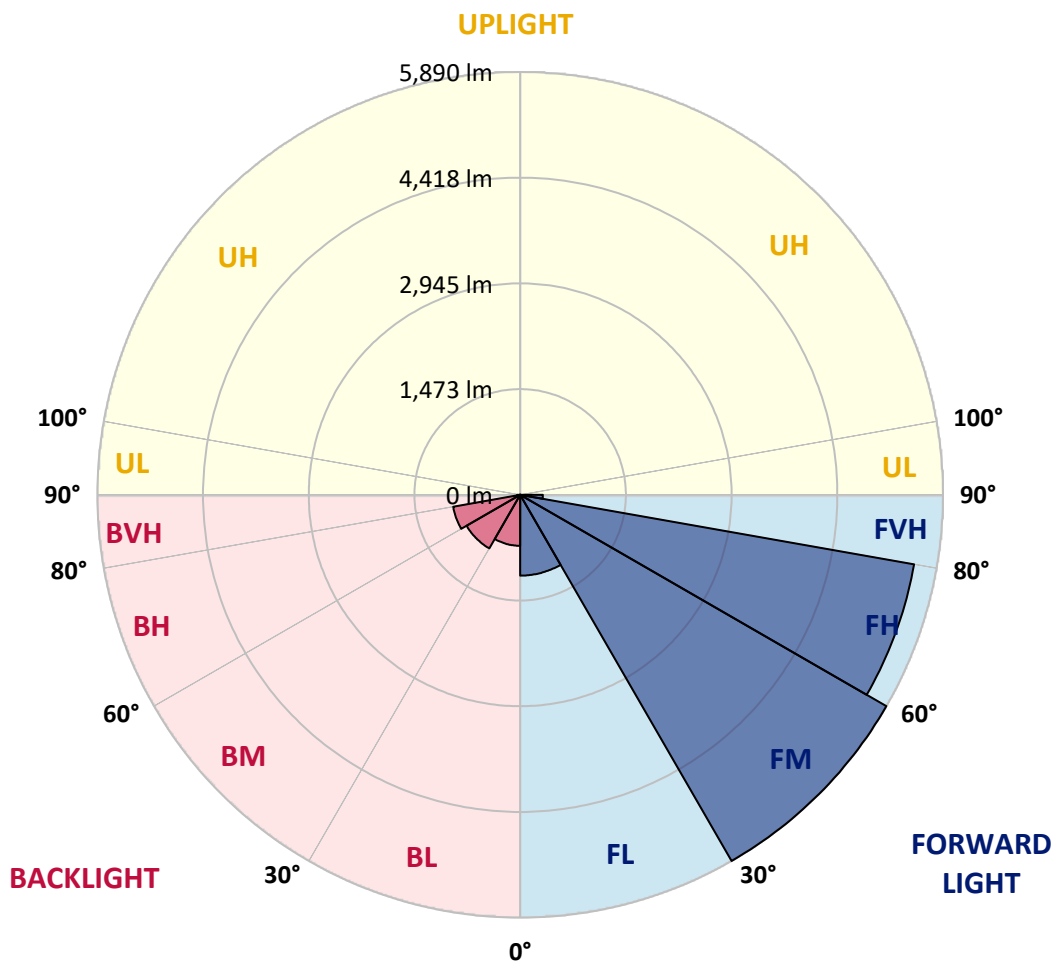
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.6	7.3			
FM (30°-60°)	5890.2	38.1			
FH (60°-80°)	5572.5	36.0			G3/7500
FVH (80°-90°)	316.1	2.0			G3/500
BL (0°-30°)	710.3	4.6	B2/1000		
BM (30°-60°)	861.2	5.6	B1/1000		
BH (60°-80°)	947.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	43.4	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2
2.5°	3199.0	3204.3	3221.1	3231.7	3279.8	3300.5	3314.8	3329.4	3331.6	3338.6	3331.6
5°	2863.3	2874.8	2906.0	2941.1	3034.1	3107.3	3184.4	3264.5	3279.1	3330.8	3345.4
7.5°	2603.3	2600.1	2626.1	2668.1	2763.5	2864.9	2999.9	3159.2	3190.5	3307.2	3363.8
10°	2413.2	2411.1	2438.4	2481.9	2572.7	2668.9	2821.3	3039.5	3083.7	3269.9	3381.2
12.5°	2273.0	2273.7	2301.2	2349.2	2441.6	2538.4	2693.3	2923.5	2980.0	3226.4	3399.5
15°	2179.8	2186.0	2208.2	2259.2	2349.2	2446.2	2597.9	2836.7	2900.0	3192.0	3420.1
17.5°	2148.7	2158.5	2166.3	2203.5	2280.5	2377.5	2526.3	2772.6	2839.7	3168.4	3438.4
20°	2177.6	2189.1	2174.5	2187.6	2236.4	2321.8	2469.8	2722.3	2790.9	3141.7	3440.7
22.5°	2301.9	2312.6	2269.8	2232.6	2229.6	2281.3	2423.3	2682.6	2753.5	3121.9	3441.4
25°	2520.9	2527.7	2456.1	2369.1	2284.4	2266.9	2390.4	2655.1	2730.6	3104.4	3427.0
27.5°	2789.3	2794.6	2712.3	2584.2	2414.0	2301.2	2379.0	2639.1	2717.6	3089.1	3402.6
30°	3115.9	3141.0	3030.3	2868.6	2620.7	2402.6	2401.9	2630.6	2703.2	3063.2	3354.5
32.5°	3449.9	3460.6	3384.3	3220.3	2899.2	2581.1	2465.9	2636.7	2699.3	3031.9	3293.5
35°	3788.5	3802.3	3752.7	3620.7	3279.8	2842.7	2591.0	2672.6	2723.0	3021.2	3250.7
37.5°	4227.2	4245.4	4176.8	4024.2	3742.8	3197.3	2799.3	2762.6	2795.4	3051.7	3237.9
40°	4920.5	4912.0	4711.4	4484.2	4249.3	3651.3	3096.7	2915.2	2934.3	3150.1	3277.5
42.5°	5727.5	5706.8	5361.4	5004.4	4806.0	4200.5	3490.4	3179.9	3176.0	3343.9	3417.2
45°	6371.1	6354.4	6043.2	5603.1	5444.4	4825.9	3999.1	3574.1	3546.0	3651.3	3674.8
47.5°	6719.7	6720.5	6541.3	6182.0	6178.3	5620.6	4652.7	4144.7	4095.9	4145.5	4120.3
50°	6597.7	6613.7	6594.6	6480.3	6847.9	6662.5	5506.3	4940.3	4841.9	4890.7	4793.9
52.5°	6007.3	6027.9	6140.9	6316.3	7129.4	7921.9	6760.1	5928.9	5814.4	5796.9	5689.2
55°	4960.9	4986.0	5216.4	5693.1	6895.2	8767.6	8738.7	7188.9	7006.5	6841.0	6795.3
57.5°	3419.4	3461.3	3832.0	4539.9	6137.8	9023.3	11094.8	8985.0	8614.3	8036.2	8046.8
60°	1927.5	1976.4	2413.2	3056.4	4609.3	8745.5	12887.3	11705.9	10923.2	9435.8	9515.1
62.5°	1225.7	1278.4	1610.1	2123.5	2765.7	7250.6	13621.8	15488.2	14494.3	11161.3	11239.0
65°	992.3	1015.3	1171.6	1752.9	2008.3	4368.2	13064.2	18604.0	18233.3	13351.0	12988.0
67.5°	968.7	976.3	1057.1	1471.3	1926.0	2455.2	10420.6	19186.8	19597.9	15396.0	13716.4
70°	957.2	984.0	1191.4	1404.2	1844.3	2070.9	6262.2	17589.6	18238.6	15930.6	12746.9
72.5°	464.6	462.9	599.4	1269.9	2077.7	2147.8	3217.2	14231.9	14883.4	13801.7	10474.7
75°	374.6	342.4	327.3	465.3	1997.7	2218.1	2050.2	9792.9	10264.3	9253.6	6439.1
77.5°	355.4	317.3	290.6	291.4	844.3	2352.3	1736.8	5420.1	5557.4	4179.9	1764.2
80°	294.5	259.3	240.2	270.7	408.8	2240.2	1877.8	2453.0	2250.9	1026.7	587.3
82.5°	204.5	186.0	180.7	227.4	327.3	1596.4	2183.7	1318.1	1105.3	514.1	362.2
85°	130.4	111.4	123.5	165.5	254.8	736.8	2249.4	1027.4	816.9	326.4	204.5
87.5°	60.2	48.8	61.1	91.5	166.2	254.0	2140.2	1154.1	841.4	172.4	128.8
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°	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2	3336.2
2.5°	3337.7	3323.3	3311.8	3290.4	3266.9	3243.9	3223.4	3197.3	3189.8	3183.0	3193.7
5°	3348.4	3333.9	3292.0	3226.4	3153.9	3086.0	3018.1	2960.3	2924.3	2904.5	2916.0
7.5°	3364.4	3343.9	3257.0	3136.4	3006.0	2887.0	2764.2	2665.8	2593.3	2559.0	2569.0
10°	3379.0	3339.3	3197.3	3016.7	2826.0	2649.0	2455.2	2295.1	2176.1	2113.5	2128.9
12.5°	3385.1	3321.8	3114.2	2867.1	2605.5	2346.3	2060.9	1821.5	1650.5	1588.1	1575.1
15°	3391.1	3301.9	3022.7	2697.0	2339.4	1972.5	1572.8	1286.0	1144.1	1112.8	1106.0
17.5°	3392.7	3267.6	2919.0	2512.5	2027.4	1527.7	1075.5	893.2	894.0	944.3	950.3
20°	3376.6	3216.6	2793.2	2283.0	1653.6	1056.3	738.3	707.1	822.2	948.2	963.3
22.5°	3340.1	3148.6	2650.4	2015.2	1225.7	695.6	571.3	605.5	754.3	908.5	926.0
25°	3293.5	3066.3	2481.9	1704.8	811.6	497.3	478.9	520.9	621.6	724.7	734.5
27.5°	3230.2	2968.5	2292.8	1349.3	527.0	409.5	421.8	450.1	491.3	536.9	541.6
30°	3148.6	2851.8	2090.6	984.0	398.2	368.5	385.9	401.3	418.7	444.8	446.9
32.5°	3054.7	2739.8	1883.1	679.6	353.2	347.0	360.8	368.5	382.0	398.2	399.7
35°	2976.3	2633.0	1668.2	480.6	334.1	331.0	340.2	343.2	356.2	373.8	375.2
37.5°	2931.2	2546.1	1446.1	387.4	321.1	316.6	321.9	321.9	340.2	366.1	369.9
40°	2934.3	2497.9	1224.2	350.1	310.5	304.3	305.2	305.2	328.7	356.9	359.2
42.5°	3017.3	2510.1	1027.4	335.5	302.0	295.3	291.4	293.7	313.5	331.8	333.4
45°	3212.7	2596.5	842.8	326.4	293.7	291.4	283.0	282.2	289.9	298.2	298.2
47.5°	3533.0	2766.5	717.7	320.3	286.7	286.0	276.0	266.2	265.4	268.6	268.6
50°	4054.1	3059.4	633.8	313.5	282.2	276.0	264.7	249.4	244.1	246.3	246.3
52.5°	4834.9	3581.8	601.9	304.3	272.2	262.3	249.4	234.2	229.5	230.3	230.3
55°	5859.4	4384.3	597.3	293.7	261.6	245.5	234.9	223.5	218.2	219.6	219.6
57.5°	7111.1	5494.0	678.8	276.9	247.2	228.8	222.7	215.1	211.3	213.5	212.8
60°	8632.7	6946.2	1006.8	259.3	232.7	213.5	213.5	207.5	204.5	206.7	205.9
62.5°	10385.5	8614.3	1415.6	246.3	217.4	201.4	204.5	201.4	198.3	199.9	199.1
65°	11939.9	9701.2	1325.7	236.4	202.1	189.9	195.2	193.8	191.5	193.0	192.1
67.5°	11984.9	9298.5	744.4	225.7	187.7	178.5	186.0	185.3	183.9	185.3	184.6
70°	10695.8	7851.6	419.5	205.9	172.4	164.7	175.3	174.7	173.2	176.2	175.3
72.5°	8569.4	5697.7	306.6	181.5	157.2	150.2	162.5	161.8	161.8	166.2	164.0
75°	4931.2	2932.0	244.9	155.5	141.2	135.7	146.5	147.2	148.7	154.9	150.2
77.5°	1405.8	913.8	199.9	132.0	121.4	118.9	129.6	131.2	132.0	138.8	132.7
80°	522.5	421.0	164.7	110.6	99.2	99.9	109.9	112.1	112.8	119.7	112.1
82.5°	333.4	277.7	133.5	85.3	77.9	77.1	89.2	92.3	92.3	93.1	88.5
85°	194.6	166.2	100.7	61.8	54.9	52.6	66.4	71.8	69.3	67.9	64.9
87.5°	130.4	114.4	61.8	34.3	29.7	28.2	38.8	42.7	41.2	38.8	36.7
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)