

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: P191900

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191900  
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-02-LED-E1-SL2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA 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: 13088 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-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

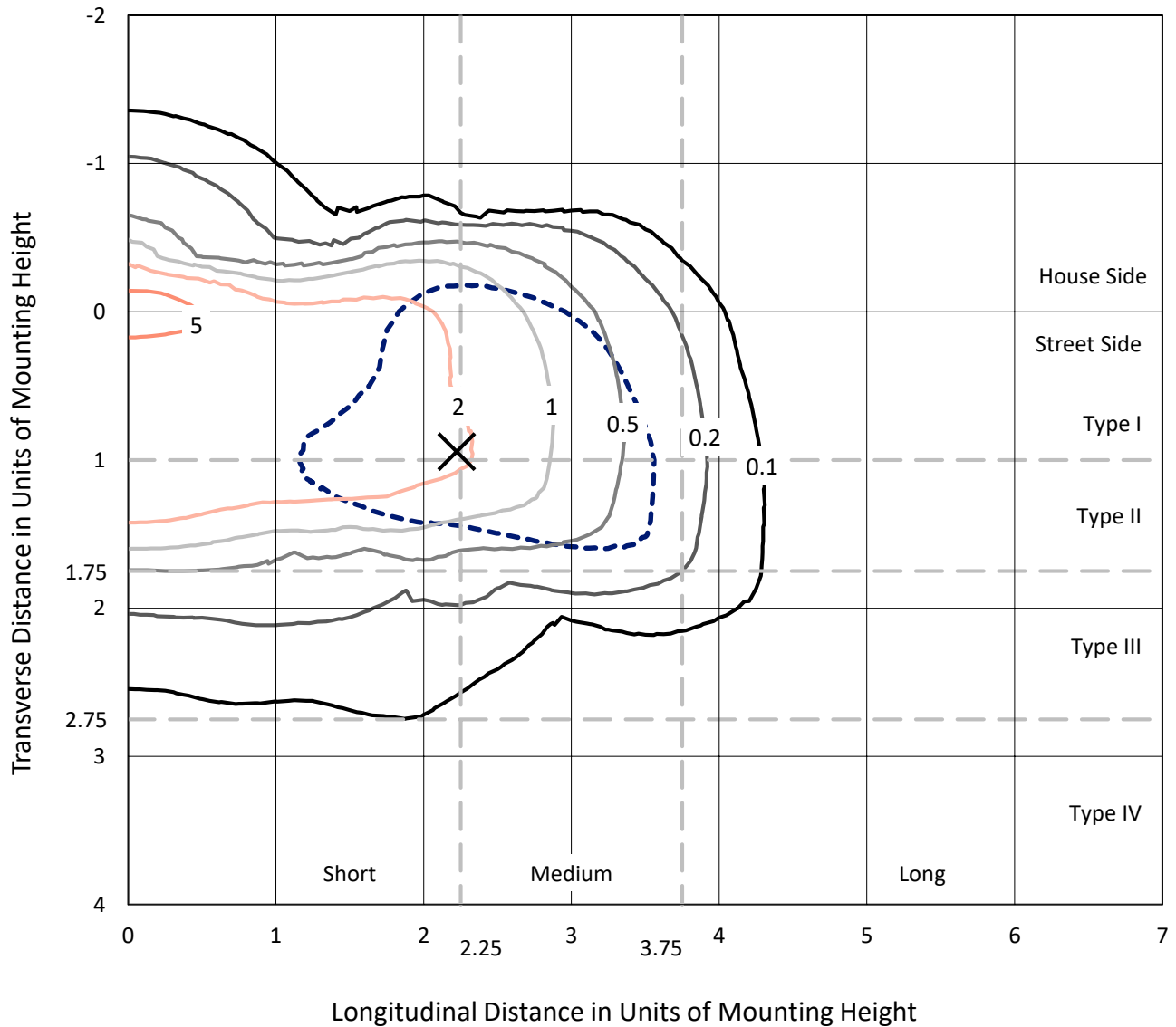


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

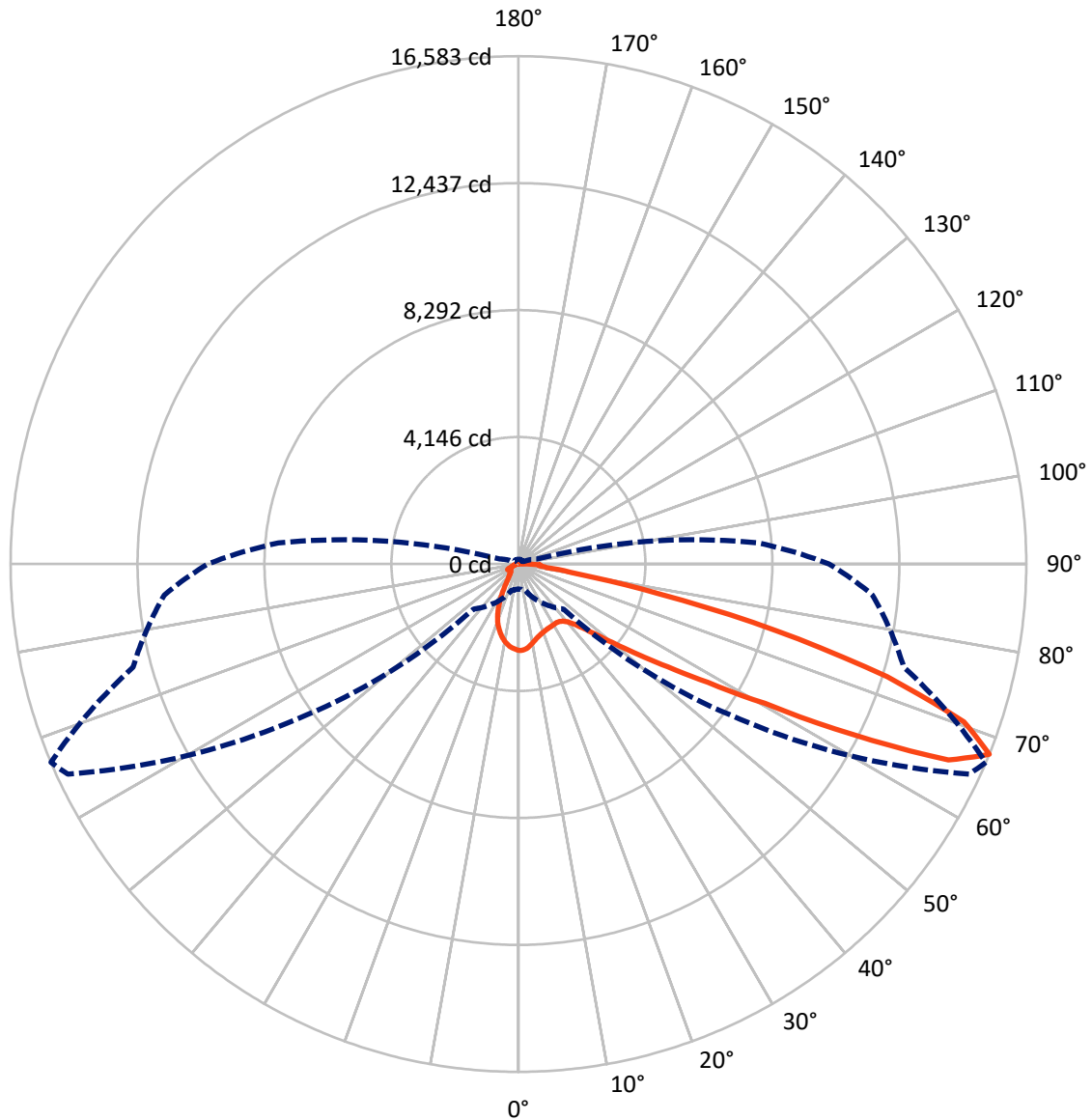


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - Semi-Cutoff

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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	2168.5	0.0	2168.5
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	10919.5	0.0	10919.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	13088.0	0.0	13088.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.9	1.8
10°-20°	557.3	4.3
20°-30°	755.4	5.8
30°-40°	1073.9	8.2
40°-50°	1796.7	13.7
50°-60°	2842.3	21.7
60°-70°	3620.8	27.7
70°-80°	1896.6	14.5
80°-90°	304.2	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°	13088.0	100.0
0°-180°	13088.0	100.0



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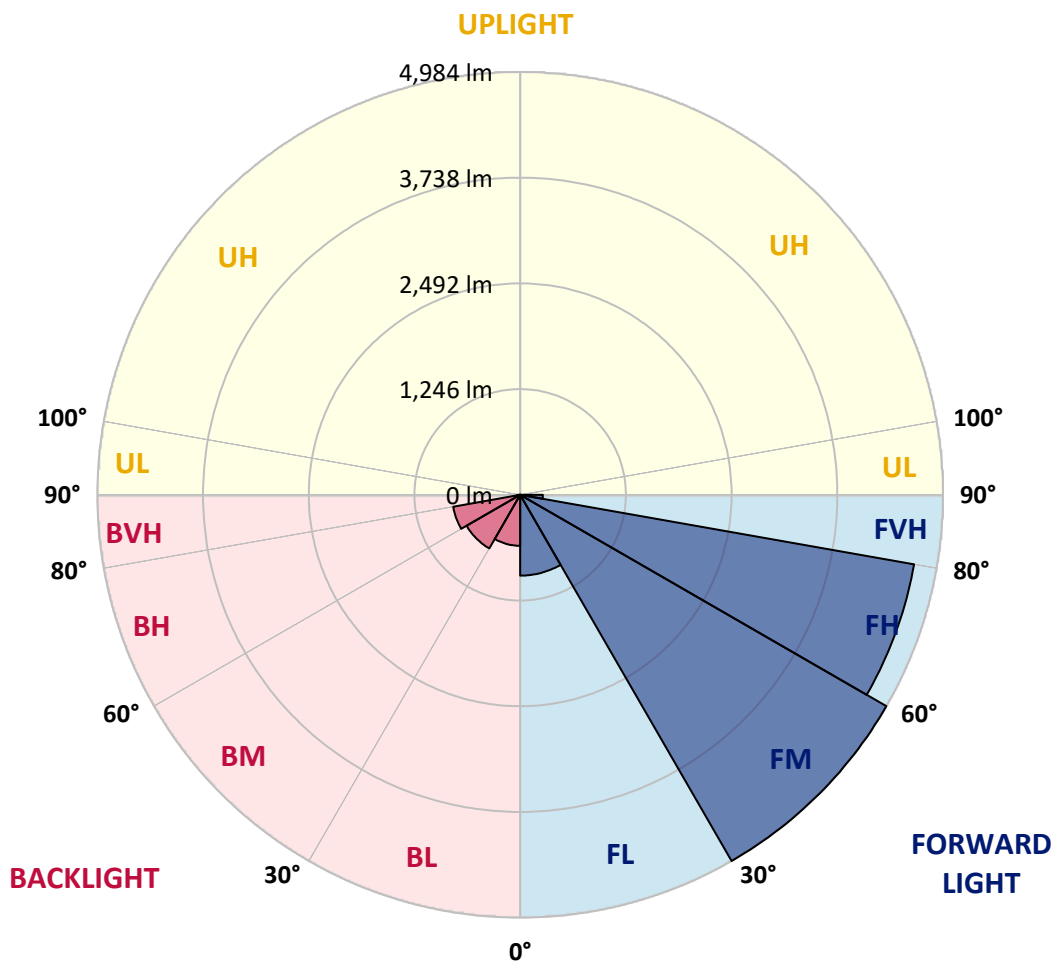
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.5	7.3			
FM (30°-60°)	4984.2	38.1			
FH (60°-80°)	4715.3	36.0			G2/5000
FVH (80°-90°)	267.5	2.0			G3/500
BL (0°-30°)	601.1	4.6	B2/1000		
BM (30°-60°)	728.7	5.6	B1/1000		
BH (60°-80°)	802.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	36.7	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°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2706.9	2711.4	2725.6	2734.6	2775.3	2792.7	2805.0	2817.2	2819.2	2825.0	2819.2
5°	2422.9	2432.6	2459.0	2488.7	2567.5	2629.4	2694.6	2762.4	2774.6	2818.5	2830.8
7.5°	2202.8	2200.2	2222.2	2257.7	2338.3	2424.2	2538.4	2673.3	2699.8	2798.5	2846.3
10°	2042.1	2040.2	2063.4	2100.2	2177.0	2258.3	2387.4	2572.0	2609.4	2766.9	2861.1
12.5°	1923.3	1924.0	1947.2	1987.9	2066.0	2147.9	2279.0	2473.9	2521.6	2730.1	2876.6
15°	1844.6	1849.8	1868.5	1911.7	1987.9	2069.8	2198.3	2400.3	2453.9	2701.1	2894.0
17.5°	1818.1	1826.5	1833.0	1864.6	1929.8	2011.8	2137.6	2346.1	2402.9	2681.1	2909.5
20°	1842.7	1852.3	1840.1	1851.1	1892.4	1964.6	2089.9	2303.5	2361.6	2658.5	2911.5
22.5°	1947.9	1956.9	1920.8	1889.1	1886.6	1930.4	2050.5	2269.9	2330.0	2641.7	2912.1
25°	2133.1	2138.9	2078.2	2004.7	1933.0	1918.2	2022.7	2246.7	2310.6	2626.8	2899.9
27.5°	2360.3	2364.8	2295.1	2186.7	2042.7	1947.2	2013.1	2233.1	2299.6	2613.9	2879.2
30°	2636.5	2657.8	2564.2	2427.4	2217.6	2033.1	2032.4	2226.0	2287.4	2592.0	2838.5
32.5°	2919.2	2928.3	2863.7	2724.9	2453.2	2184.1	2086.6	2231.2	2284.1	2565.5	2786.9
35°	3205.8	3217.4	3175.4	3063.8	2775.3	2405.5	2192.5	2261.5	2304.1	2556.5	2750.8
37.5°	3576.9	3592.4	3534.3	3405.2	3167.1	2705.6	2368.7	2337.7	2365.4	2582.3	2739.8
40°	4163.6	4156.5	3986.7	3794.4	3595.6	3089.6	2620.4	2466.8	2482.9	2665.6	2773.4
42.5°	4846.4	4829.0	4536.6	4234.6	4066.8	3554.3	2953.4	2690.7	2687.5	2829.5	2891.5
45°	5391.2	5377.0	5113.6	4741.2	4607.0	4083.5	3383.9	3024.4	3000.5	3089.6	3109.6
47.5°	5686.1	5686.8	5535.1	5231.1	5227.9	4756.1	3937.0	3507.2	3465.9	3507.8	3486.5
50°	5582.8	5596.4	5580.3	5483.5	5794.5	5637.7	4659.3	4180.4	4097.1	4138.4	4056.4
52.5°	5083.3	5100.7	5196.2	5344.7	6032.7	6703.3	5720.3	5016.8	4920.0	4905.2	4814.2
55°	4197.8	4219.1	4414.0	4817.4	5834.6	7419.1	7394.5	6083.0	5928.8	5788.7	5750.0
57.5°	2893.4	2928.9	3242.6	3841.5	5193.7	7635.3	9388.2	7603.0	7289.3	6800.1	6809.1
60°	1631.0	1672.3	2042.1	2586.2	3900.2	7400.3	10904.9	9905.2	9243.0	7984.4	8051.6
62.5°	1037.2	1081.7	1362.5	1796.8	2340.3	6135.3	11526.5	13105.8	12264.8	9444.4	9510.2
65°	839.7	859.0	991.4	1483.2	1699.4	3696.3	11054.7	15742.3	15428.7	11297.4	10990.1
67.5°	819.7	826.1	894.5	1245.0	1629.7	2077.6	8817.7	16235.4	16583.3	13027.7	11606.5
70°	810.0	832.6	1008.1	1188.2	1560.6	1752.3	5298.9	14883.9	15433.2	13480.2	10786.2
72.5°	393.1	391.8	507.3	1074.6	1758.1	1817.5	2722.4	12042.8	12594.0	11678.8	8863.5
75°	316.9	289.8	276.9	393.7	1690.3	1876.9	1734.9	8286.5	8685.4	7830.2	5448.6
77.5°	300.8	268.5	245.9	246.5	714.5	1990.5	1469.6	4586.3	4702.5	3536.9	1492.8
80°	249.1	219.4	203.3	229.1	345.9	1895.6	1589.0	2075.7	1904.6	868.7	497.0
82.5°	173.0	157.5	153.0	192.3	276.9	1350.9	1847.8	1115.3	935.2	435.0	306.6
85°	110.4	94.2	104.6	140.1	215.6	623.5	1903.3	869.4	691.2	276.2	173.0
87.5°	51.0	41.3	51.6	77.4	140.7	214.9	1811.0	976.5	711.9	145.9	109.1
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°	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0	2823.0
2.5°	2824.3	2812.1	2802.4	2784.3	2764.3	2745.0	2727.5	2705.6	2699.1	2693.3	2702.4
5°	2833.4	2821.1	2785.6	2730.1	2668.8	2611.4	2553.9	2504.9	2474.5	2457.7	2467.4
7.5°	2846.9	2829.5	2755.9	2654.0	2543.6	2442.9	2339.0	2255.7	2194.4	2165.4	2173.8
10°	2859.2	2825.6	2705.6	2552.6	2391.3	2241.5	2077.6	1942.1	1841.4	1788.4	1801.4
12.5°	2864.4	2810.8	2635.2	2426.1	2204.7	1985.3	1743.9	1541.3	1396.7	1343.8	1332.8
15°	2869.5	2794.0	2557.8	2282.2	1979.5	1669.0	1330.8	1088.2	968.1	941.7	935.9
17.5°	2870.8	2765.0	2470.0	2126.0	1715.5	1292.8	910.0	755.8	756.4	799.0	804.2
20°	2857.3	2721.7	2363.5	1931.7	1399.3	893.9	624.8	598.3	695.8	802.3	815.2
22.5°	2826.3	2664.3	2242.8	1705.2	1037.2	588.6	483.4	512.5	638.3	768.7	783.5
25°	2786.9	2594.6	2100.2	1442.5	686.7	420.8	405.3	440.8	526.0	613.1	621.5
27.5°	2733.3	2512.0	1940.1	1141.7	446.0	346.6	356.9	380.8	415.6	454.4	458.2
30°	2664.3	2413.2	1769.1	832.6	336.9	311.7	326.6	339.5	354.3	376.3	378.2
32.5°	2584.9	2318.3	1593.5	575.1	298.8	293.7	305.3	311.7	323.4	336.9	338.2
35°	2518.4	2228.0	1411.5	406.6	282.7	280.1	287.9	290.4	301.4	316.3	317.5
37.5°	2480.3	2154.4	1223.7	327.9	271.7	267.8	272.4	272.4	287.9	309.8	313.0
40°	2482.9	2113.7	1035.9	296.2	262.7	257.5	258.2	258.2	278.2	302.1	304.0
42.5°	2553.3	2124.1	869.4	284.0	255.6	249.8	246.5	248.5	265.3	280.8	282.0
45°	2718.5	2197.0	713.2	276.2	248.5	246.5	239.4	238.8	245.3	252.4	252.4
47.5°	2989.6	2340.9	607.3	271.1	242.7	242.0	233.6	225.3	224.6	227.2	227.2
50°	3430.4	2588.8	536.3	265.3	238.8	233.6	224.0	211.1	206.5	208.5	208.5
52.5°	4091.3	3030.9	509.2	257.5	230.4	222.0	211.1	198.1	194.3	194.9	194.9
55°	4958.1	3709.9	505.4	248.5	221.4	207.8	198.8	189.1	184.6	185.9	185.9
57.5°	6017.2	4648.9	574.4	234.3	209.1	193.6	188.5	182.0	178.8	180.7	180.1
60°	7304.8	5877.8	851.9	219.4	196.9	180.7	180.7	175.6	173.0	174.9	174.3
62.5°	8788.0	7289.3	1197.9	208.5	183.9	170.4	173.0	170.4	167.8	169.1	168.5
65°	10103.3	8209.0	1121.7	200.1	171.0	160.7	165.2	163.9	162.0	163.3	162.6
67.5°	10141.4	7868.3	629.9	191.0	158.8	151.0	157.5	156.8	155.5	156.8	156.2
70°	9050.7	6643.9	355.0	174.3	145.9	139.4	148.4	147.8	146.5	149.1	148.4
72.5°	7251.2	4821.3	259.5	153.6	133.0	127.1	137.5	136.8	136.8	140.7	138.8
75°	4172.6	2481.0	207.2	131.7	119.4	114.9	123.9	124.6	125.9	131.0	127.1
77.5°	1189.5	773.2	169.1	111.7	102.6	100.7	109.7	111.0	111.7	117.5	112.3
80°	442.1	356.3	139.4	93.6	83.9	84.5	92.9	94.9	95.5	101.3	94.9
82.5°	282.0	234.9	112.9	72.3	65.8	65.2	75.5	78.1	78.1	78.7	74.9
85°	164.6	140.7	85.2	52.3	46.5	44.5	56.2	60.7	58.7	57.4	54.9
87.5°	110.4	96.8	52.3	29.0	25.2	23.9	32.9	36.1	34.9	32.9	31.0
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)