

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: P269070

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269070  
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-SL2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 11370.5 lumens  
Efficiency: N/A  
Efficacy: 88.1 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

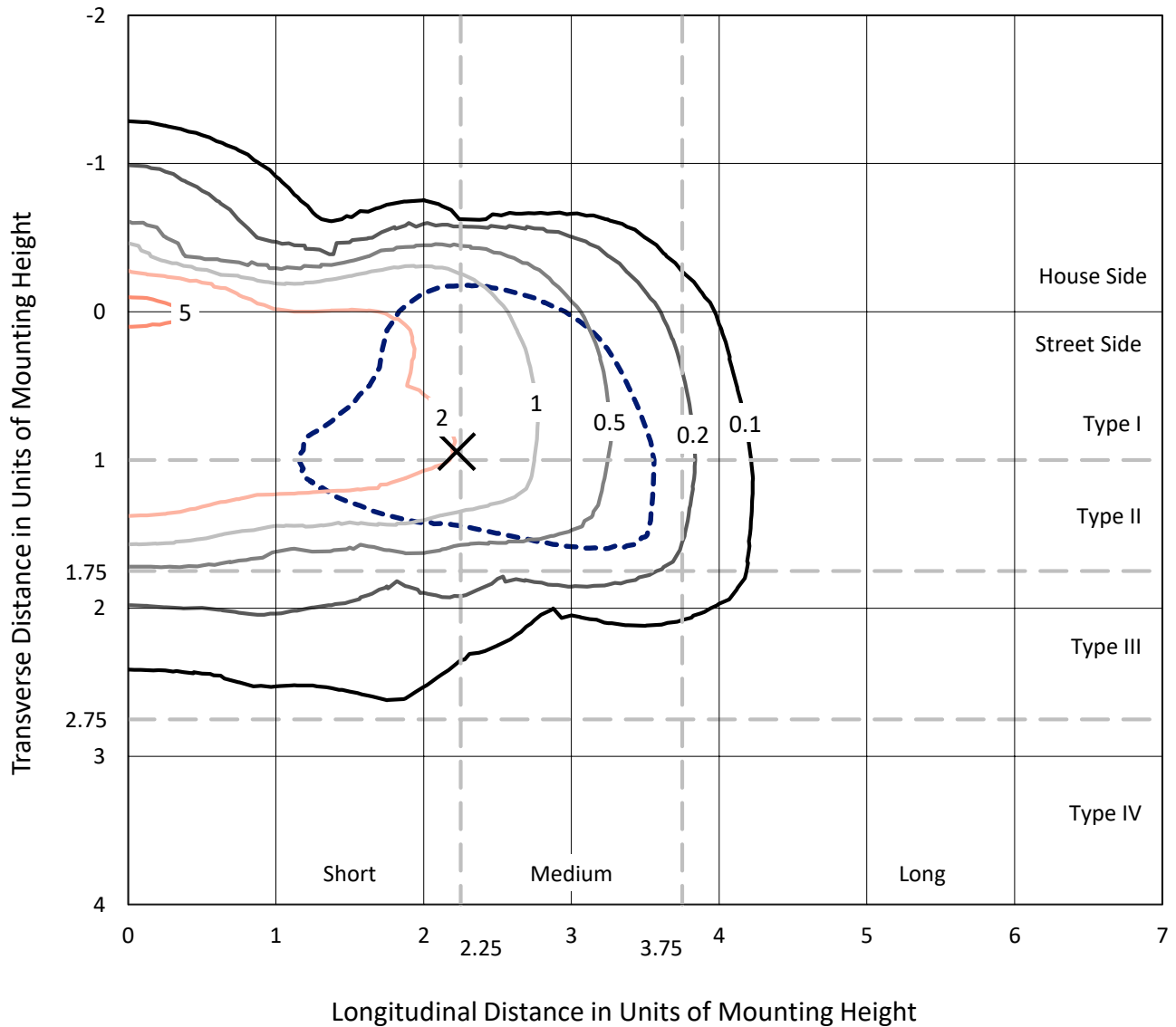


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

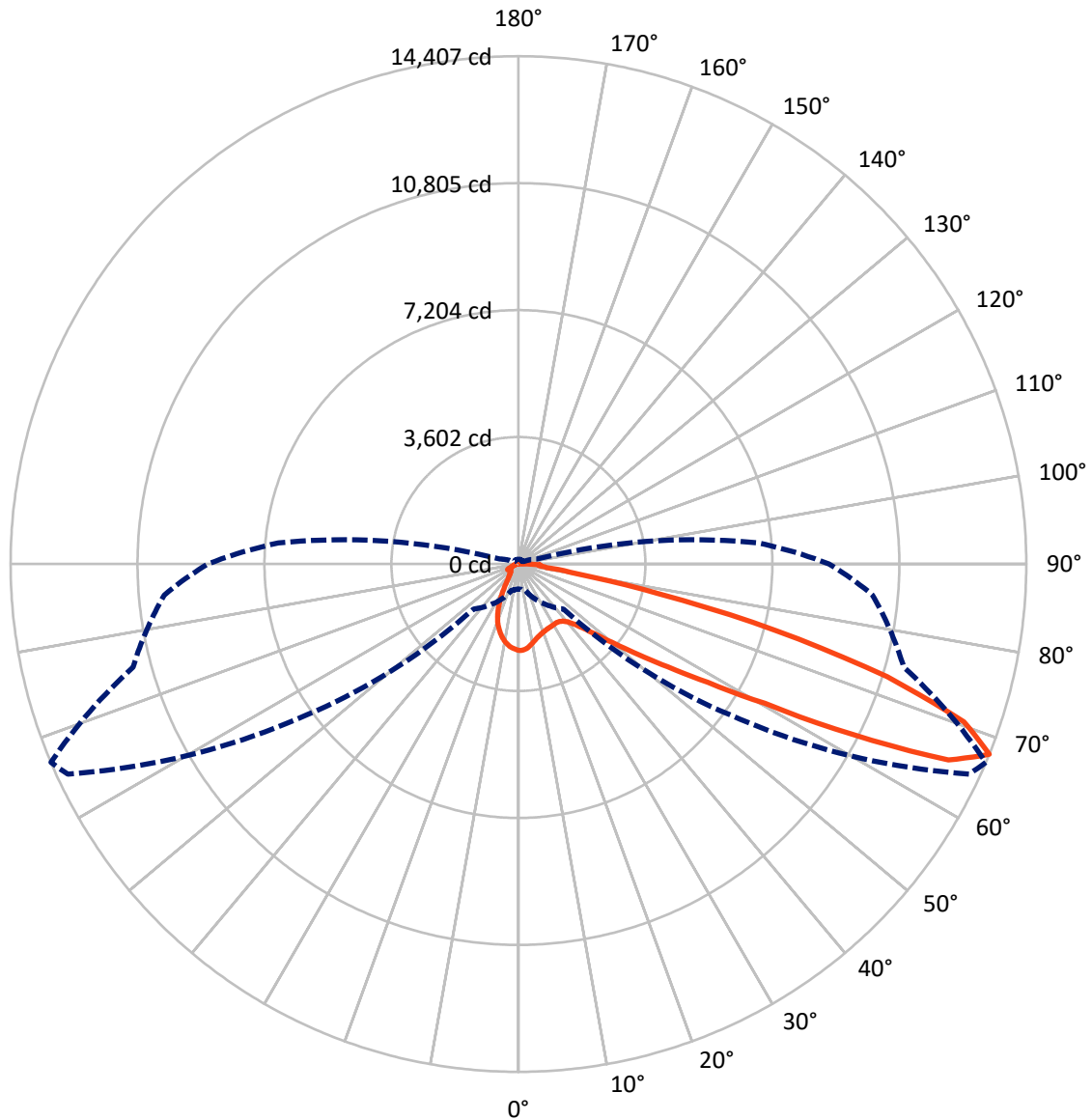


Based on 20 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - Semi-Cutoff

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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	1884.0	0.0	1884.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	9486.5	0.0	9486.5
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	11370.5	0.0	11370.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	1.8
10°-20°	484.2	4.3
20°-30°	656.3	5.8
30°-40°	933.0	8.2
40°-50°	1560.9	13.7
50°-60°	2469.3	21.7
60°-70°	3145.7	27.7
70°-80°	1647.7	14.5
80°-90°	264.3	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°	11370.5	100.0
0°-180°	11370.5	100.0

**Coefficient of Utilization**



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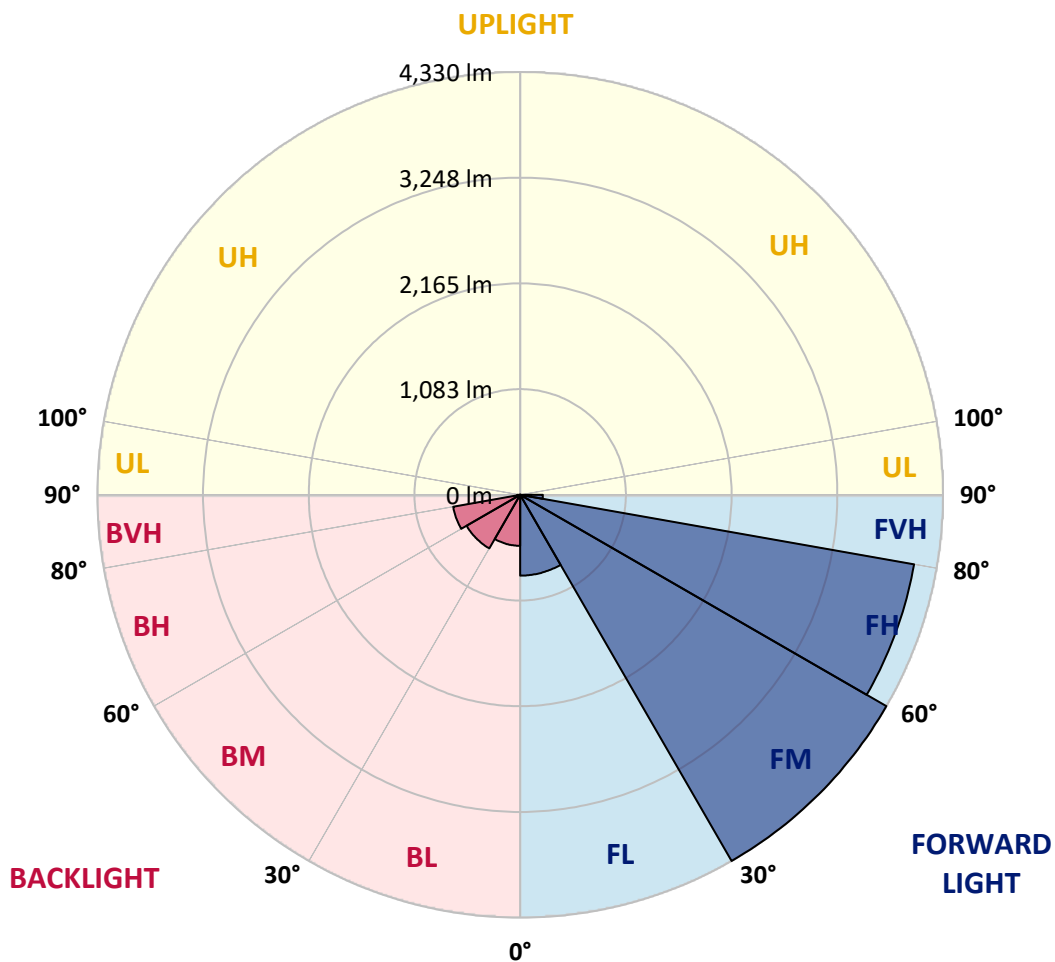
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.5	7.3			
FM (30°-60°)	4330.1	38.1			
FH (60°-80°)	4096.5	36.0			G2/5000
FVH (80°-90°)	232.4	2.0			G3/500
BL (0°-30°)	522.2	4.6	B2/1000		
BM (30°-60°)	633.1	5.6	B1/1000		
BH (60°-80°)	696.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	31.9	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°	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6
2.5°	2351.7	2355.5	2367.9	2375.7	2411.1	2426.2	2436.9	2447.5	2449.1	2454.3	2449.1
5°	2105.0	2113.4	2136.3	2162.1	2230.5	2284.4	2341.1	2399.9	2410.5	2448.7	2459.3
7.5°	1913.7	1911.6	1930.5	1961.4	2031.4	2106.0	2205.2	2322.5	2345.5	2431.3	2472.8
10°	1774.2	1772.4	1792.6	1824.5	1891.3	1962.0	2074.0	2234.4	2267.1	2403.9	2485.7
12.5°	1670.9	1671.4	1691.7	1727.0	1794.9	1866.0	1980.0	2149.3	2190.7	2371.9	2499.2
15°	1602.5	1607.0	1623.2	1660.8	1727.0	1798.2	1909.7	2085.3	2131.9	2346.6	2514.3
17.5°	1579.5	1586.9	1592.4	1620.0	1676.5	1747.7	1857.1	2038.3	2087.5	2329.2	2527.7
20°	1600.9	1609.3	1598.7	1608.1	1644.0	1706.8	1815.7	2001.2	2051.6	2309.6	2529.4
22.5°	1692.2	1700.1	1668.7	1641.3	1639.0	1677.1	1781.3	1972.0	2024.2	2295.0	2529.9
25°	1853.2	1858.2	1805.6	1741.6	1679.3	1666.4	1757.3	1951.8	2007.4	2282.1	2519.2
27.5°	2050.6	2054.5	1993.9	1899.7	1774.7	1691.7	1748.9	1940.1	1997.8	2270.9	2501.4
30°	2290.6	2309.1	2227.7	2109.0	1926.7	1766.2	1765.7	1934.0	1987.2	2251.8	2466.0
32.5°	2536.2	2544.0	2487.9	2367.4	2131.3	1897.5	1812.8	1938.5	1984.4	2228.9	2421.2
35°	2785.0	2795.2	2758.8	2661.8	2411.1	2089.7	1904.8	1964.8	2001.8	2221.0	2389.9
37.5°	3107.4	3120.9	3070.4	2958.4	2751.5	2350.5	2057.8	2030.9	2055.1	2243.4	2380.2
40°	3617.1	3611.0	3463.5	3296.5	3123.8	2684.1	2276.6	2143.0	2157.1	2315.8	2409.4
42.5°	4210.4	4195.3	3941.4	3678.9	3533.0	3087.8	2565.9	2337.6	2334.9	2458.2	2512.0
45°	4683.7	4671.4	4442.6	4119.1	4002.4	3547.6	2939.9	2627.5	2606.8	2684.1	2701.6
47.5°	4939.9	4940.5	4808.6	4544.6	4541.8	4131.9	3420.3	3047.0	3011.1	3047.5	3029.1
50°	4850.2	4861.9	4848.0	4763.8	5034.1	4897.9	4047.9	3631.8	3559.4	3595.3	3524.1
52.5°	4416.2	4431.3	4514.3	4643.2	5241.0	5823.6	4969.7	4358.4	4274.3	4261.5	4182.4
55°	3646.8	3665.4	3834.8	4185.3	5068.9	6445.5	6424.1	5284.8	5150.7	5029.2	4995.5
57.5°	2513.6	2544.4	2817.1	3337.5	4512.0	6633.4	8156.3	6605.2	6332.7	5907.8	5915.6
60°	1416.9	1452.7	1774.2	2246.8	3388.4	6429.2	9473.9	8605.4	8030.0	6936.6	6994.9
62.5°	901.1	939.7	1183.6	1561.1	2033.1	5330.3	10013.9	11385.9	10655.3	8204.9	8262.3
65°	729.6	746.3	861.2	1288.4	1476.4	3211.3	9604.0	13676.4	13404.0	9814.8	9547.9
67.5°	712.0	717.7	777.2	1081.6	1415.8	1805.0	7660.6	14104.8	14407.0	11318.0	10083.4
70°	703.7	723.3	875.8	1032.3	1355.8	1522.4	4603.5	12930.7	13407.9	11711.2	9370.7
72.5°	341.4	340.4	440.7	933.6	1527.4	1579.0	2365.1	10462.4	10941.3	10146.1	7700.4
75°	275.3	251.7	240.6	342.1	1468.5	1630.6	1507.1	7199.0	7545.7	6802.7	4733.6
77.5°	261.2	233.3	213.6	214.2	620.6	1729.2	1276.8	3984.4	4085.4	3072.7	1297.0
80°	216.4	190.6	176.6	199.1	300.6	1646.9	1380.4	1803.3	1654.7	754.8	431.7
82.5°	150.2	136.8	132.9	167.1	240.6	1173.5	1605.4	968.9	812.4	377.9	266.3
85°	95.8	81.8	90.9	121.7	187.2	541.7	1653.6	755.2	600.5	239.9	150.2
87.5°	44.2	35.9	44.8	67.4	122.2	186.7	1573.4	848.4	618.5	126.8	94.7
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°	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6	2452.6
2.5°	2453.7	2443.0	2434.6	2419.0	2401.6	2384.7	2369.5	2350.5	2344.9	2339.8	2347.7
5°	2461.5	2450.8	2420.0	2371.9	2318.5	2268.7	2218.8	2176.1	2149.9	2135.2	2143.6
7.5°	2473.4	2458.2	2394.3	2305.7	2209.8	2122.3	2032.1	1959.7	1906.5	1881.2	1888.4
10°	2484.0	2454.8	2350.5	2217.6	2077.5	1947.3	1805.0	1687.1	1599.7	1553.8	1564.9
12.5°	2488.5	2442.0	2289.4	2107.8	1915.5	1724.7	1515.0	1339.1	1213.4	1167.3	1157.8
15°	2492.9	2427.3	2222.1	1982.6	1719.7	1450.0	1156.2	945.3	841.1	818.0	813.1
17.5°	2494.1	2402.1	2146.0	1847.0	1490.4	1123.2	790.6	656.7	657.2	694.2	698.6
20°	2482.2	2364.6	2053.3	1678.3	1215.6	776.6	542.8	519.8	604.5	696.9	708.1
22.5°	2455.3	2314.7	1948.6	1481.5	901.1	511.3	420.0	445.2	554.6	667.8	680.7
25°	2421.2	2254.0	1824.5	1253.2	596.7	365.6	352.1	382.9	457.0	532.6	540.1
27.5°	2374.6	2182.3	1685.5	991.9	387.4	301.1	310.1	330.8	361.1	394.7	398.0
30°	2314.7	2096.6	1536.9	723.3	292.7	270.7	283.8	295.0	307.8	327.0	328.6
32.5°	2245.7	2014.1	1384.4	499.5	259.6	255.1	265.2	270.7	280.9	292.7	293.8
35°	2187.9	1935.6	1226.2	353.3	245.5	243.4	250.1	252.3	261.9	274.7	275.9
37.5°	2154.9	1871.7	1063.1	284.9	236.1	232.8	236.7	236.7	250.1	269.1	271.9
40°	2157.1	1836.3	899.9	257.4	228.2	223.7	224.2	224.2	241.6	262.5	264.1
42.5°	2218.3	1845.3	755.2	246.8	222.1	217.0	214.2	215.9	230.4	243.9	245.1
45°	2361.7	1908.7	619.7	239.9	215.9	214.2	208.0	207.5	213.1	219.2	219.2
47.5°	2597.3	2033.8	527.7	235.4	210.8	210.3	202.9	195.7	195.1	197.4	197.4
50°	2980.1	2249.0	466.0	230.4	207.5	202.9	194.6	183.3	179.4	181.1	181.1
52.5°	3554.5	2633.1	442.4	223.7	200.2	192.9	183.3	172.1	168.8	169.3	169.3
55°	4307.5	3222.9	439.0	215.9	192.3	180.6	172.7	164.3	160.3	161.4	161.4
57.5°	5227.5	4038.9	499.1	203.6	181.6	168.3	163.8	158.1	155.2	157.1	156.5
60°	6346.2	5106.4	740.2	190.6	170.9	157.1	157.1	152.5	150.2	152.0	151.5
62.5°	7634.8	6332.7	1040.6	181.1	159.8	148.0	150.2	148.0	145.7	147.0	146.3
65°	8777.5	7131.7	974.5	173.8	148.6	139.6	143.5	142.4	140.8	141.8	141.4
67.5°	8810.5	6835.7	547.2	165.9	137.9	131.2	136.8	136.3	135.1	136.3	135.7
70°	7863.0	5772.0	308.4	151.5	126.8	121.1	128.9	128.4	127.3	129.5	128.9
72.5°	6299.6	4188.5	225.5	133.5	115.5	110.4	119.5	118.8	118.8	122.2	120.6
75°	3625.0	2155.5	180.0	114.4	103.8	99.8	107.6	108.2	109.4	113.8	110.4
77.5°	1033.4	671.8	147.0	96.9	89.1	87.5	95.3	96.5	96.9	102.0	97.6
80°	384.0	309.6	121.1	81.2	72.9	73.4	80.8	82.5	83.1	88.0	82.5
82.5°	245.1	204.2	98.2	62.8	57.2	56.7	65.5	67.8	67.8	68.5	65.0
85°	143.0	122.2	74.0	45.5	40.3	38.6	48.8	52.7	51.1	49.9	47.7
87.5°	95.8	84.1	45.5	25.2	21.9	20.8	28.6	31.4	30.4	28.6	26.9
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)