

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: P193640

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193640  
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-SL2-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 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: 10680 lumens  
Efficiency: N/A  
Efficacy: 82.8 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 - G2

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

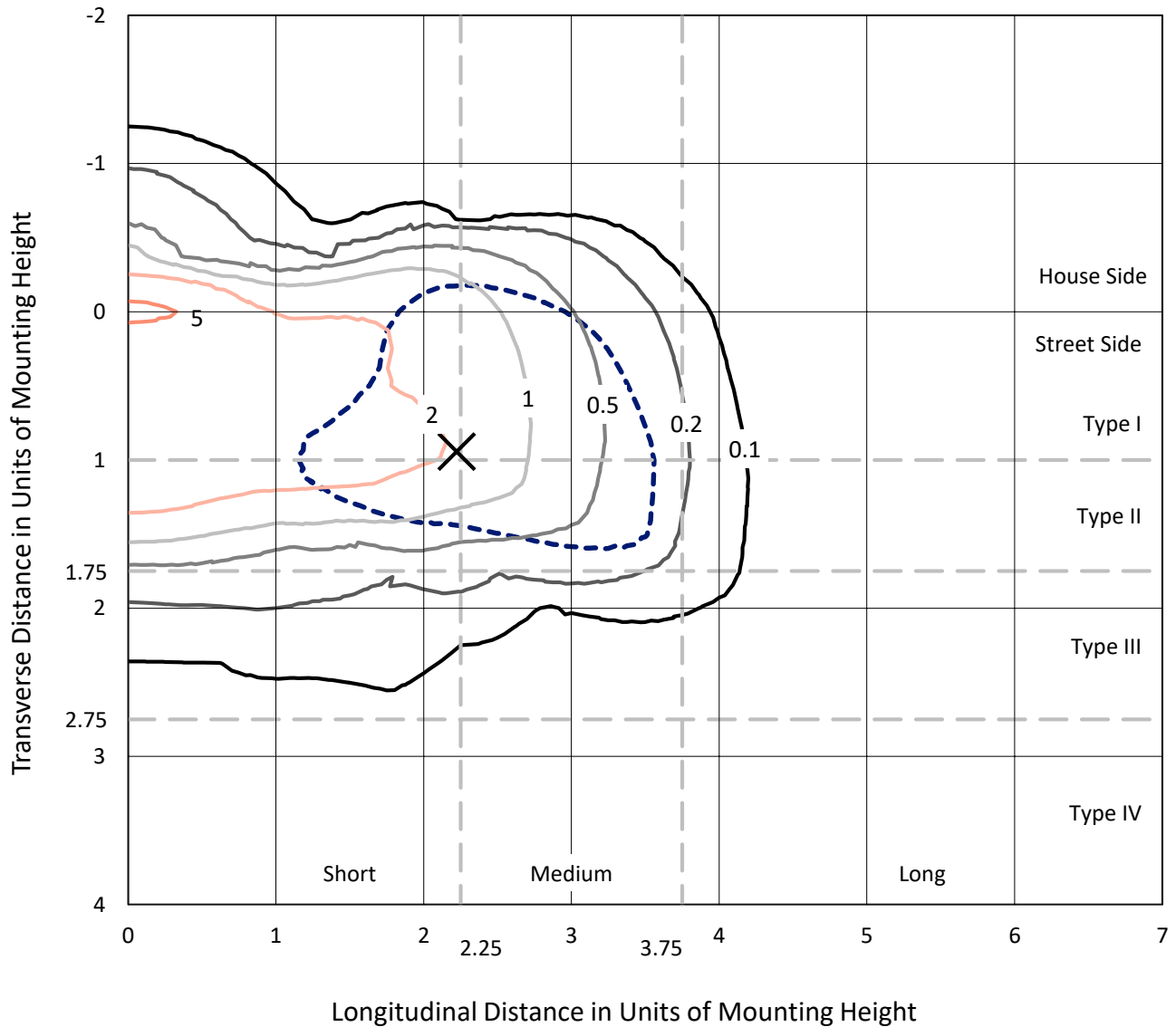


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

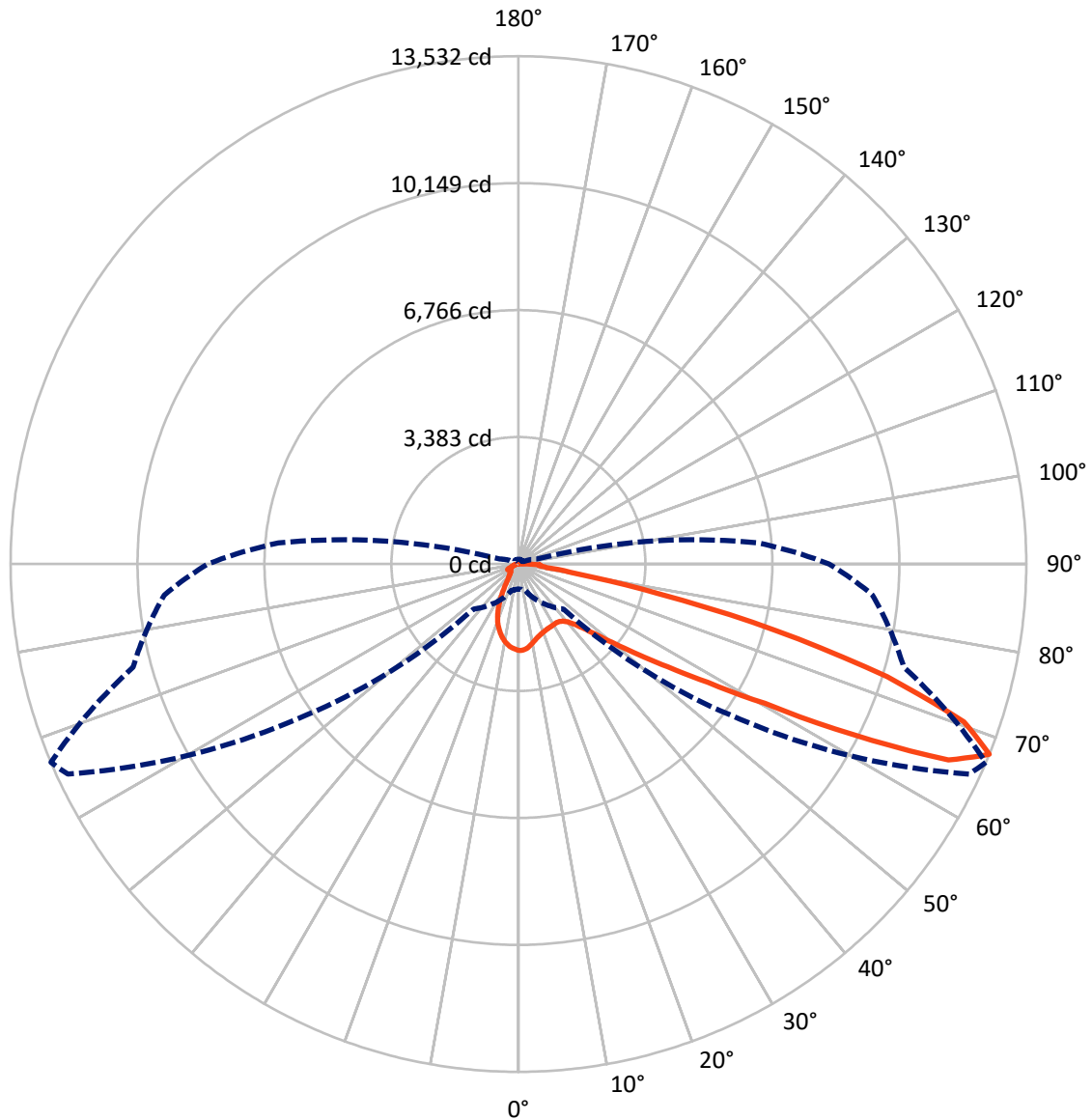


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - Semi-Cutoff

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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	1769.6	0.0	1769.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	8910.4	0.0	8910.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	10680.0	0.0	10680.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.5	1.8
10°-20°	454.8	4.3
20°-30°	616.4	5.8
30°-40°	876.3	8.2
40°-50°	1466.1	13.7
50°-60°	2319.4	21.7
60°-70°	2954.6	27.7
70°-80°	1547.6	14.5
80°-90°	248.2	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°	10680.0	100.0
0°-180°	10680.0	100.0



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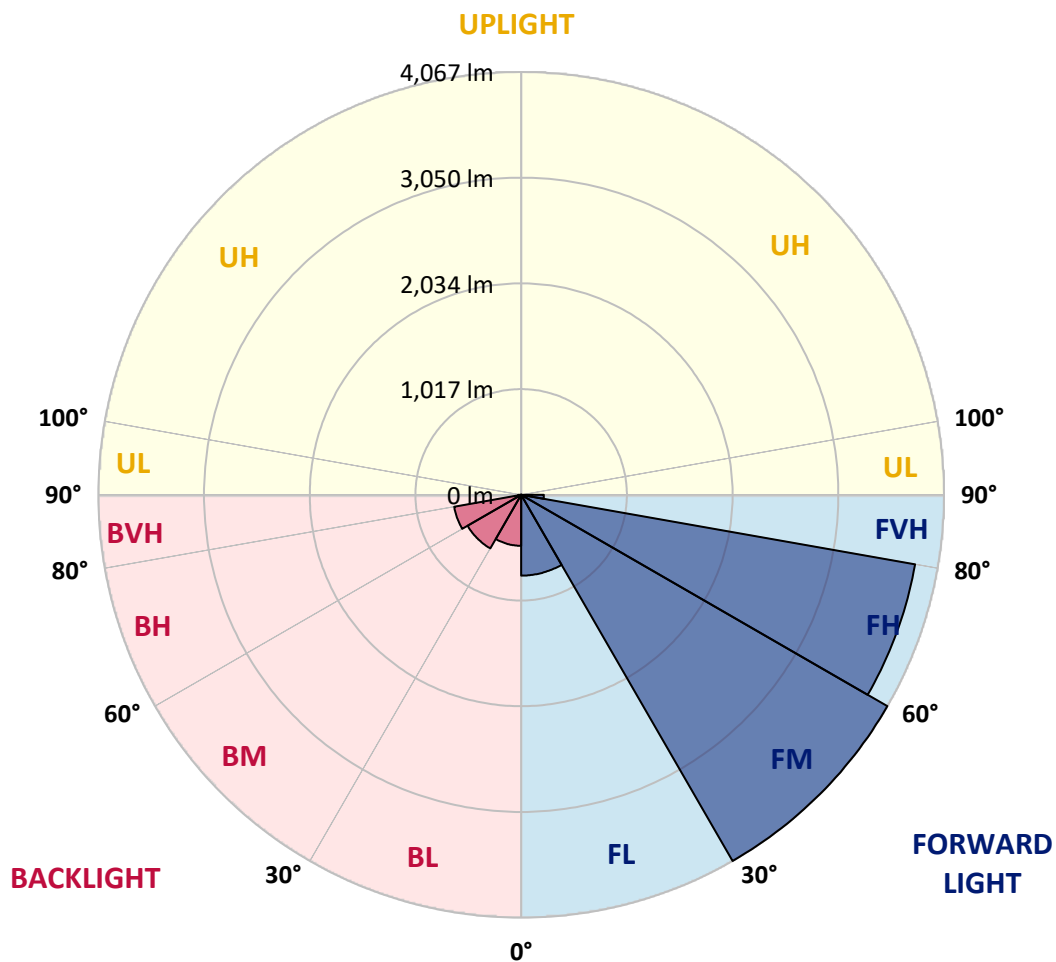
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.2	7.3			
FM (30°-60°)	4067.2	38.1			
FH (60°-80°)	3847.8	36.0			G2/5000
FVH (80°-90°)	218.3	2.0			G2/225
BL (0°-30°)	490.5	4.6	B1/500		
BM (30°-60°)	594.6	5.6	B1/1000		
BH (60°-80°)	654.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	30.0	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6
2.5°	2208.8	2212.5	2224.1	2231.5	2264.7	2278.9	2288.9	2298.9	2300.5	2305.2	2300.5
5°	1977.1	1985.0	2006.6	2030.8	2095.1	2145.6	2198.8	2254.1	2264.1	2300.0	2310.0
7.5°	1797.5	1795.4	1813.3	1842.3	1908.1	1978.2	2071.4	2181.5	2203.1	2283.6	2322.6
10°	1666.4	1664.8	1683.8	1713.8	1776.5	1842.8	1948.1	2098.8	2129.3	2257.8	2334.7
12.5°	1569.5	1570.0	1589.0	1622.1	1685.9	1752.8	1859.7	2018.7	2057.7	2227.8	2347.4
15°	1505.2	1509.4	1524.7	1560.0	1622.1	1689.0	1793.8	1958.7	2002.4	2204.1	2361.6
17.5°	1483.6	1490.5	1495.7	1521.5	1574.7	1641.6	1744.3	1914.4	1960.8	2187.8	2374.2
20°	1503.6	1511.5	1501.5	1510.5	1544.2	1603.2	1705.4	1879.7	1927.1	2169.3	2375.8
22.5°	1589.5	1596.9	1567.4	1541.6	1539.5	1575.3	1673.2	1852.3	1901.3	2155.7	2376.3
25°	1740.6	1745.4	1695.9	1635.8	1577.4	1565.3	1650.6	1833.3	1885.5	2143.5	2366.3
27.5°	1926.0	1929.7	1872.8	1784.4	1666.9	1589.0	1642.7	1822.3	1876.5	2133.0	2349.5
30°	2151.4	2168.8	2092.5	1980.8	1809.6	1659.0	1658.5	1816.5	1866.5	2115.1	2316.3
32.5°	2382.1	2389.5	2336.8	2223.6	2001.9	1782.2	1702.7	1820.7	1863.9	2093.5	2274.2
35°	2616.0	2625.4	2591.2	2500.1	2264.7	1962.9	1789.1	1845.4	1880.2	2086.1	2244.7
37.5°	2918.8	2931.4	2884.0	2778.7	2584.4	2207.8	1932.9	1907.6	1930.2	2107.2	2235.7
40°	3397.5	3391.7	3253.2	3096.3	2934.1	2521.2	2138.3	2012.9	2026.1	2175.1	2263.1
42.5°	3954.8	3940.5	3702.0	3455.5	3318.5	2900.4	2410.0	2195.7	2193.0	2308.9	2359.5
45°	4399.3	4387.7	4172.8	3868.9	3759.4	3332.2	2761.3	2468.0	2448.5	2521.2	2537.5
47.5°	4640.0	4640.5	4516.7	4268.7	4266.0	3881.0	3212.7	2861.9	2828.2	2862.4	2845.1
50°	4555.7	4566.7	4553.6	4474.6	4728.4	4600.5	3802.0	3411.2	3343.3	3377.0	3310.1
52.5°	4148.0	4162.3	4240.2	4361.3	4922.8	5470.0	4667.9	4093.8	4014.8	4002.7	3928.4
55°	3425.5	3442.8	3601.9	3931.1	4761.1	6054.1	6034.0	4963.9	4838.0	4723.7	4692.1
57.5°	2361.1	2390.0	2646.0	3134.7	4238.1	6230.5	7660.9	6204.2	5948.2	5549.0	5556.4
60°	1330.9	1364.6	1666.4	2110.4	3182.7	6038.8	8898.6	8082.8	7542.4	6515.4	6570.2
62.5°	846.4	882.7	1111.8	1466.2	1909.7	5006.5	9405.8	10694.5	10008.3	7706.7	7760.5
65°	685.2	701.0	809.0	1210.3	1386.7	3016.2	9020.8	12846.0	12590.0	9218.8	8968.1
67.5°	668.9	674.1	730.0	1015.9	1329.8	1695.3	7195.4	13248.4	13532.2	10630.8	9471.1
70°	661.0	679.4	822.7	969.6	1273.5	1429.9	4324.0	12145.5	12593.7	11000.0	8801.7
72.5°	320.7	319.7	414.0	876.9	1434.6	1483.1	2221.5	9827.1	10276.9	9530.1	7232.7
75°	258.6	236.5	225.9	321.3	1379.3	1531.6	1415.7	6761.9	7087.4	6389.5	4446.1
77.5°	245.4	219.1	200.7	201.2	583.0	1624.2	1199.2	3742.5	3837.3	2886.1	1218.2
80°	203.3	179.1	165.9	187.0	282.3	1546.8	1296.7	1693.8	1554.2	708.9	405.5
82.5°	141.1	128.5	124.8	156.9	225.9	1102.3	1507.9	910.1	763.1	355.0	250.2
85°	90.1	76.9	85.3	114.3	175.9	508.8	1553.1	709.4	564.1	225.4	141.1
87.5°	41.6	33.7	42.1	63.2	114.8	175.4	1477.8	796.9	580.9	119.0	89.0
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°	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6	2303.6
2.5°	2304.7	2294.7	2286.8	2272.0	2255.7	2239.9	2225.7	2207.8	2202.5	2197.8	2205.2
5°	2312.1	2302.1	2273.1	2227.8	2177.8	2130.9	2084.0	2044.0	2019.2	2005.6	2013.5
7.5°	2323.1	2308.9	2248.9	2165.7	2075.6	1993.4	1908.6	1840.7	1790.7	1767.0	1773.8
10°	2333.1	2305.8	2207.8	2083.0	1951.3	1829.1	1695.3	1584.7	1502.6	1459.4	1469.9
12.5°	2337.4	2293.6	2150.4	1979.7	1799.1	1620.0	1423.1	1257.7	1139.7	1096.5	1087.6
15°	2341.6	2279.9	2087.2	1862.3	1615.3	1362.0	1086.0	888.0	790.0	768.4	763.7
17.5°	2342.6	2256.2	2015.6	1734.8	1399.9	1054.9	742.6	616.7	617.3	652.0	656.2
20°	2331.6	2221.0	1928.7	1576.3	1141.8	729.4	509.8	488.2	567.7	654.6	665.2
22.5°	2306.3	2174.1	1830.2	1391.5	846.4	480.3	394.5	418.2	520.9	627.3	639.4
25°	2274.2	2117.2	1713.8	1177.1	560.4	343.4	330.7	359.7	429.2	500.3	507.2
27.5°	2230.4	2049.8	1583.2	931.7	363.9	282.8	291.2	310.7	339.2	370.8	373.9
30°	2174.1	1969.2	1443.6	679.4	274.9	254.4	266.5	277.0	289.1	307.0	308.6
32.5°	2109.3	1891.8	1300.3	469.3	243.8	239.6	249.1	254.4	263.9	274.9	276.0
35°	2055.1	1818.1	1151.8	331.8	230.7	228.6	234.9	237.0	246.0	258.1	259.1
37.5°	2024.0	1758.0	998.6	267.5	221.7	218.6	222.3	222.3	234.9	252.8	255.4
40°	2026.1	1724.8	845.3	241.7	214.4	210.1	210.7	210.7	227.0	246.5	248.1
42.5°	2083.5	1733.3	709.4	231.7	208.6	203.8	201.2	202.8	216.5	229.1	230.2
45°	2218.3	1792.8	582.0	225.4	202.8	201.2	195.4	194.9	200.1	205.9	205.9
47.5°	2439.5	1910.2	495.6	221.2	198.0	197.5	190.7	183.8	183.3	185.4	185.4
50°	2799.2	2112.5	437.7	216.5	194.9	190.7	182.8	172.2	168.5	170.1	170.1
52.5°	3338.6	2473.2	415.5	210.1	188.0	181.2	172.2	161.7	158.5	159.1	159.1
55°	4045.9	3027.3	412.4	202.8	180.6	169.6	162.2	154.3	150.6	151.7	151.7
57.5°	4910.1	3793.6	468.7	191.2	170.6	158.0	153.8	148.5	145.9	147.5	146.9
60°	5960.8	4796.4	695.2	179.1	160.6	147.5	147.5	143.3	141.1	142.7	142.2
62.5°	7171.1	5948.2	977.5	170.1	150.1	139.0	141.1	139.0	136.9	138.0	137.5
65°	8244.5	6698.7	915.4	163.3	139.6	131.1	134.8	133.8	132.2	133.2	132.7
67.5°	8275.5	6420.6	514.0	155.9	129.6	123.2	128.5	128.0	126.9	128.0	127.5
70°	7385.5	5421.5	289.7	142.2	119.0	113.8	121.1	120.6	119.6	121.7	121.1
72.5°	5917.1	3934.2	211.7	125.3	108.5	103.8	112.2	111.7	111.7	114.8	113.2
75°	3404.9	2024.5	169.1	107.4	97.4	93.7	101.1	101.6	102.7	106.9	103.8
77.5°	970.7	630.9	138.0	91.1	83.7	82.2	89.5	90.6	91.1	95.9	91.6
80°	360.8	290.7	113.8	76.4	68.5	69.0	75.8	77.4	77.9	82.7	77.4
82.5°	230.2	191.7	92.2	59.0	53.7	53.2	61.6	63.7	63.7	64.3	61.1
85°	134.3	114.8	69.5	42.7	37.9	36.3	45.8	49.5	47.9	46.9	44.8
87.5°	90.1	79.0	42.7	23.7	20.5	19.5	26.9	29.5	28.4	26.9	25.3
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)