

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: P269112

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11868.1 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full 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

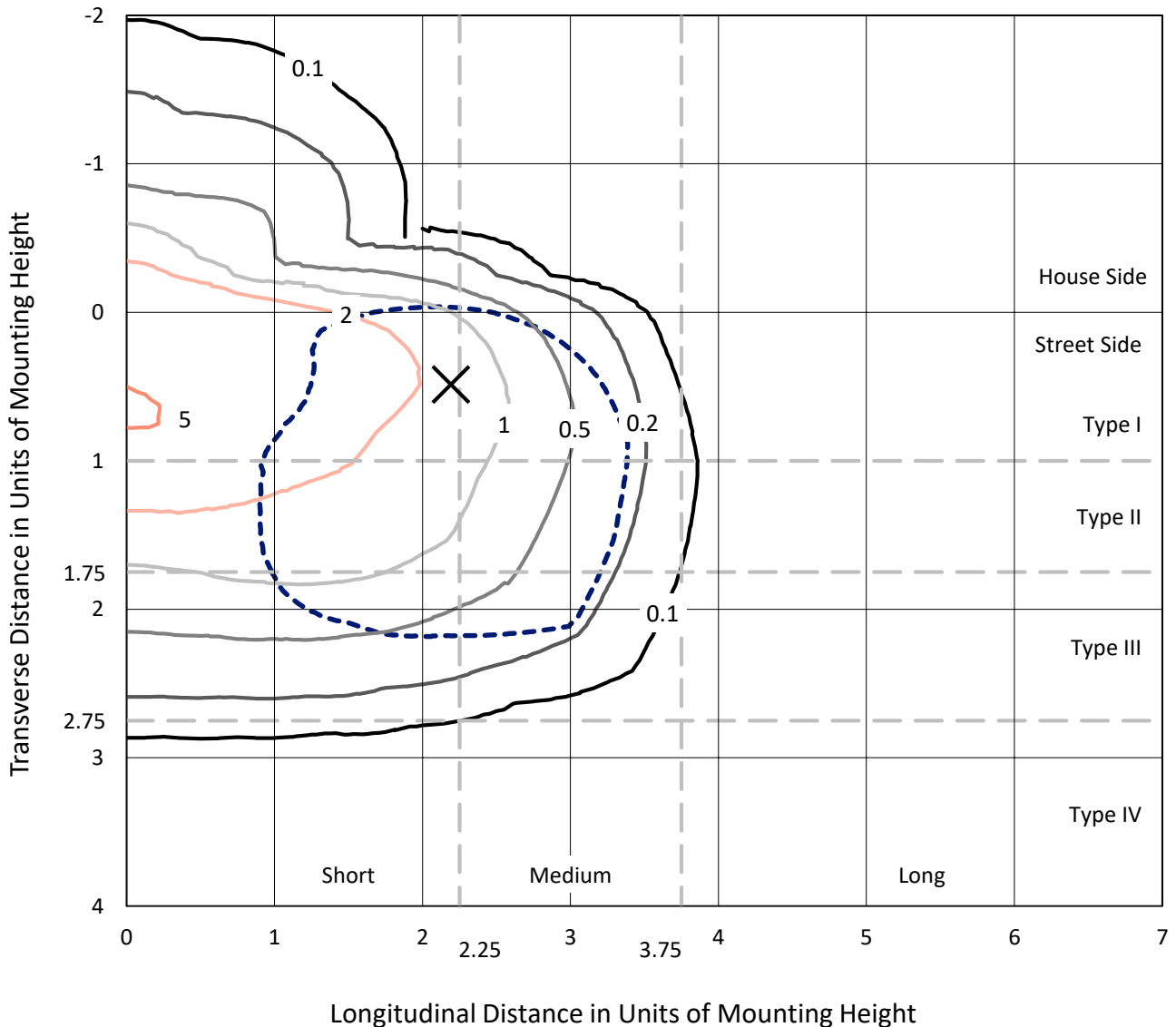


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

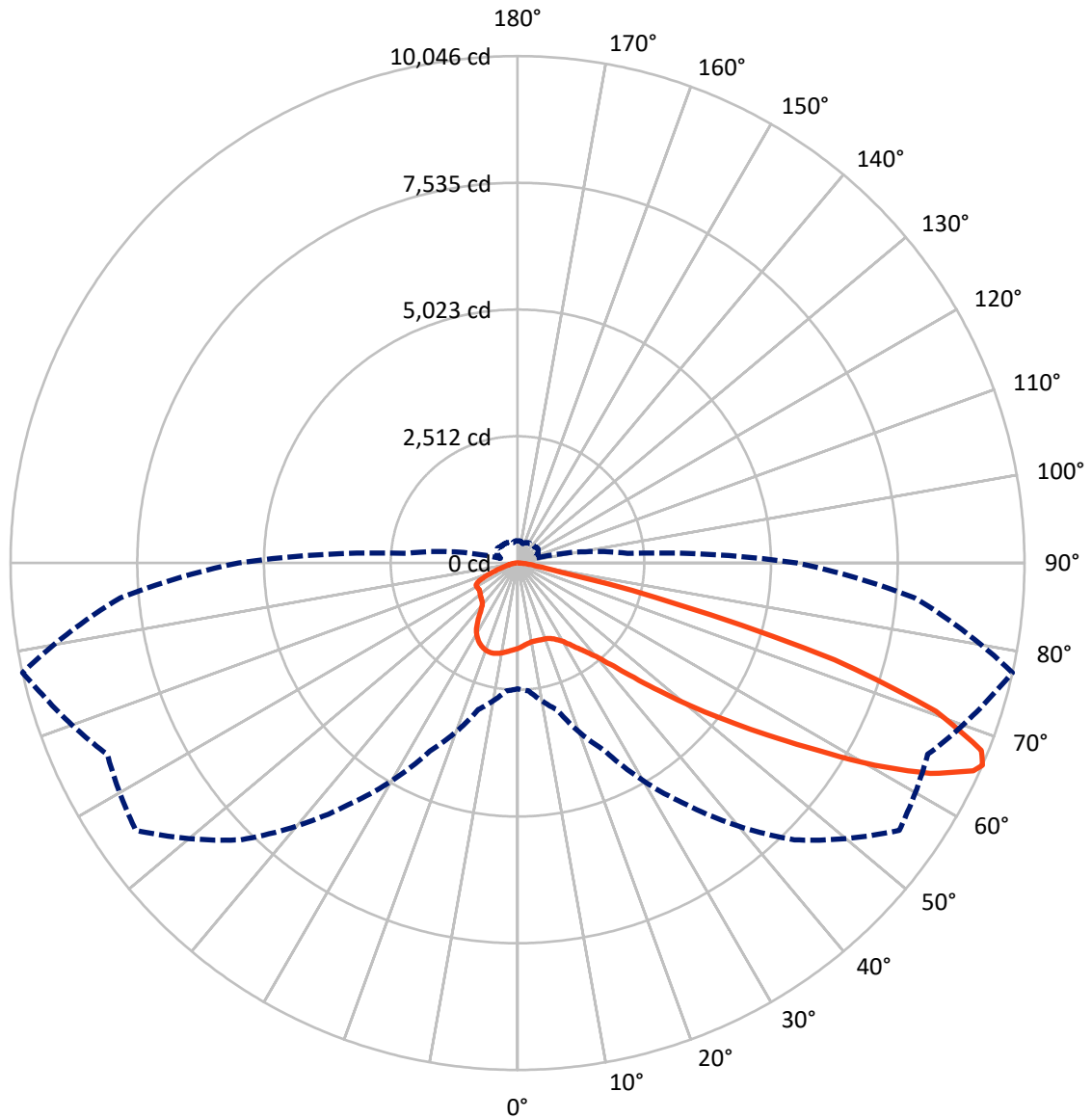


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2027.6	0.0	2027.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	9840.5	0.0	9840.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	11868.1	0.0	11868.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	1.3
10°-20°	426.3	3.6
20°-30°	727.5	6.1
30°-40°	1164.6	9.8
40°-50°	1799.2	15.2
50°-60°	2551.9	21.5
60°-70°	3413.8	28.8
70°-80°	1482.5	12.5
80°-90°	151.2	1.3
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°	11868.1	100.0
0°-180°	11868.1	100.0



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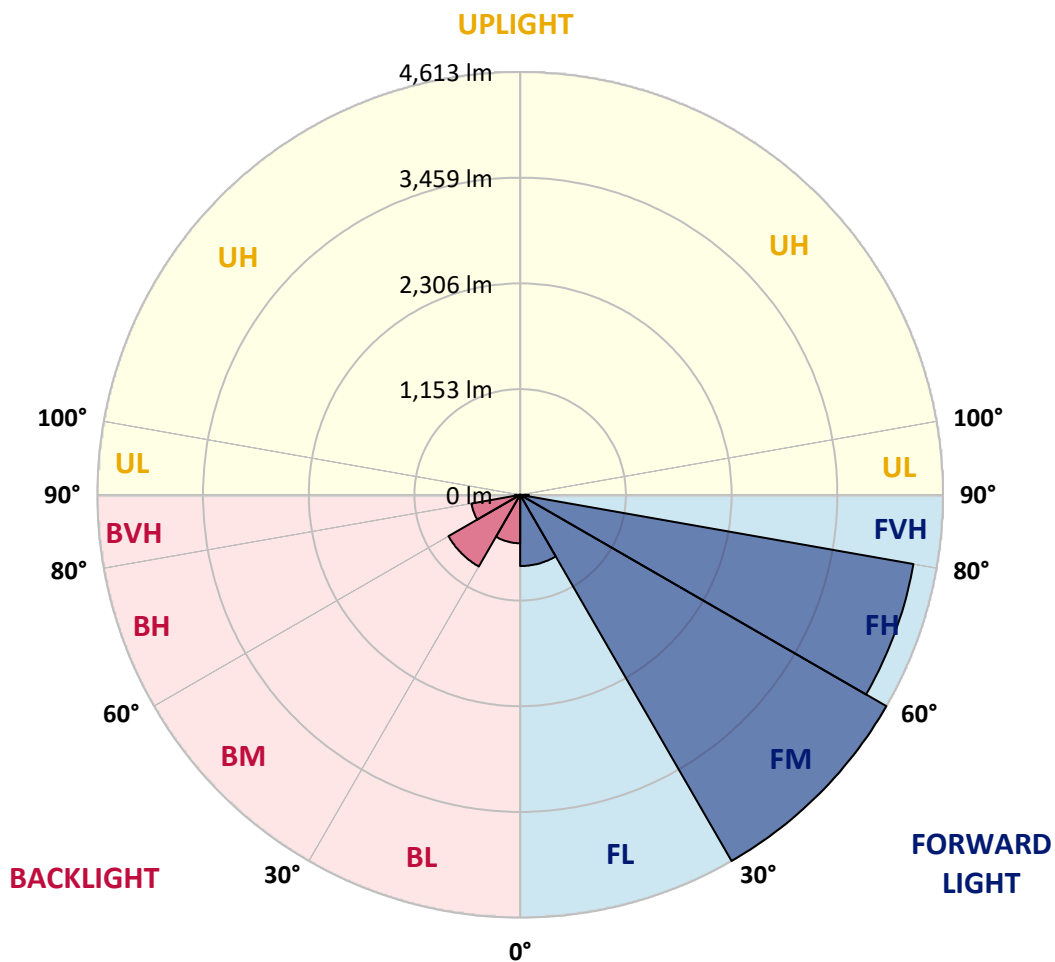
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.8	6.5			
FM	(30°-60°)	4612.5	38.9			
FH	(60°-80°)	4356.3	36.7			G2/5000
FVH	(80°-90°)	94.8	0.8			G1/100
BL	(0°-30°)	528.1	4.4	B2/1000		
BM	(30°-60°)	903.2	7.6	B1/1000		
BH	(60°-80°)	540.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	56.4	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2
2.5°	1496.0	1506.2	1514.6	1522.4	1538.2	1563.9	1593.8	1617.8	1652.5	1659.3	1677.9
5°	1358.7	1358.7	1365.5	1377.2	1398.5	1437.2	1477.6	1531.4	1607.2	1625.0	1674.4
7.5°	1292.0	1292.5	1296.4	1306.6	1325.1	1360.5	1404.7	1468.1	1570.6	1600.4	1684.5
10°	1316.6	1311.0	1302.6	1297.6	1300.3	1321.1	1363.2	1433.9	1548.3	1586.3	1707.0
12.5°	1454.6	1443.9	1414.8	1376.2	1339.2	1323.9	1348.6	1417.6	1538.7	1583.1	1736.7
15°	1680.0	1675.6	1621.1	1541.0	1451.2	1376.2	1359.2	1411.4	1539.9	1586.9	1771.9
17.5°	1962.6	1956.5	1884.7	1768.0	1621.7	1475.3	1396.9	1416.4	1543.7	1593.8	1806.2
20°	2248.1	2229.1	2151.6	2012.6	1824.6	1610.5	1459.0	1429.5	1548.8	1601.0	1842.2
22.5°	2461.1	2445.5	2375.9	2240.8	2024.3	1767.0	1542.7	1451.8	1565.0	1622.2	1886.4
25°	2648.5	2649.6	2580.7	2449.9	2226.2	1933.0	1650.4	1511.8	1606.6	1666.0	1946.9
27.5°	2880.1	2866.6	2802.2	2672.5	2425.9	2100.5	1780.4	1594.2	1668.2	1728.2	2026.5
30°	3157.2	3147.5	3073.0	2926.0	2647.3	2280.5	1929.0	1690.2	1747.9	1810.2	2130.9
32.5°	3482.9	3478.3	3401.1	3212.0	2903.1	2492.5	2103.4	1816.8	1866.8	1931.3	2280.5
35°	3865.3	3865.9	3774.5	3547.3	3182.9	2739.3	2301.4	1980.0	2011.5	2078.8	2458.9
37.5°	4100.9	4129.5	4095.3	3863.6	3499.6	3015.3	2558.3	2196.4	2176.4	2244.1	2650.2
40°	4151.2	4186.1	4294.3	4176.6	3854.1	3319.1	2785.9	2404.6	2379.3	2462.3	2896.3
42.5°	4080.7	4128.9	4357.7	4440.7	4230.4	3693.7	3092.1	2713.5	2681.6	2793.2	3202.5
45°	4038.6	4074.5	4339.2	4578.0	4556.7	4117.1	3481.8	3101.6	3089.8	3236.1	3555.9
47.5°	3965.7	3998.3	4252.8	4610.0	4748.5	4505.2	3949.9	3576.0	3599.0	3790.8	3954.5
50°	4005.0	4018.4	4156.4	4528.7	4804.0	4789.5	4473.2	4125.6	4204.1	4443.5	4405.8
52.5°	3999.3	4034.1	4145.1	4395.2	4811.3	4965.0	4988.6	4738.4	4903.8	5178.5	4906.6
55°	3233.4	3297.3	4013.4	4361.6	4837.2	5137.1	5447.2	5384.4	5692.9	6013.1	5471.9
57.5°	3087.6	3127.9	3524.9	4432.2	4973.9	5465.7	5957.5	6095.4	6611.3	6983.2	6160.5
60°	3059.0	3108.9	3519.9	4518.7	5251.5	6001.2	6714.0	6956.2	7728.9	8136.0	6959.1
62.5°	2969.7	3023.7	3486.9	4507.3	5645.8	6742.0	7682.5	7871.4	8788.7	9184.7	7626.9
65°	2687.2	2737.7	3217.1	4326.2	5911.6	7532.6	8828.6	8710.3	9625.5	9923.2	7960.1
66°	2493.8	2543.0	3004.7	4113.2	5849.9	7757.0	9234.7	8969.9	9812.7	10046.0	7894.9
67.5°	2139.9	2178.6	2591.8	3636.0	5521.8	7819.8	9576.1	9165.0	9832.4	9914.9	7523.1
70°	1351.9	1363.2	1684.5	2510.0	4180.0	6781.8	9056.4	8680.6	9021.6	8798.4	6306.9
72.5°	586.6	582.6	808.7	1276.9	2366.4	4550.5	7325.8	7162.6	7076.8	6567.7	4414.9
75°	326.4	330.8	420.0	592.7	961.7	2235.3	4792.3	4585.8	3872.1	3304.0	2002.0
77.5°	261.9	268.1	348.3	420.5	431.7	779.5	2242.4	1824.6	1098.5	881.4	556.3
80°	206.9	218.2	303.9	327.5	291.1	321.4	724.6	579.2	434.6	398.7	288.3
82.5°	163.8	171.5	260.8	247.8	203.6	216.4	347.1	338.1	282.6	257.4	166.5
85°	117.8	132.3	214.2	186.8	133.5	145.7	230.4	221.0	162.1	132.3	73.4
87.5°	48.1	62.8	151.5	124.0	74.6	67.8	115.0	108.2	76.8	56.1	36.4
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°	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2	1691.2
2.5°	1689.6	1703.0	1720.4	1731.0	1736.7	1740.6	1746.8	1746.2	1747.9	1748.5	1750.6
5°	1700.9	1723.2	1748.5	1755.2	1755.2	1749.0	1742.8	1732.7	1728.8	1727.7	1728.8
7.5°	1730.0	1754.6	1776.5	1768.7	1751.9	1727.1	1695.2	1667.2	1652.1	1647.0	1645.9
10°	1767.0	1796.7	1805.7	1775.9	1726.6	1667.2	1603.7	1557.8	1531.4	1524.2	1521.9
12.5°	1811.8	1839.9	1827.5	1764.7	1673.4	1577.5	1490.0	1416.4	1361.6	1344.1	1343.1
15°	1861.2	1883.0	1839.9	1730.0	1593.8	1452.4	1296.4	1169.8	1101.3	1079.5	1077.7
17.5°	1907.1	1918.4	1832.5	1669.4	1476.5	1247.7	1040.7	943.2	919.7	925.3	926.4
20°	1946.4	1946.4	1807.8	1582.5	1292.0	978.0	847.3	845.7	862.5	879.4	882.7
22.5°	1989.6	1963.8	1764.7	1459.7	1030.6	800.2	781.2	796.8	815.9	834.4	837.2
25°	2042.8	1977.8	1704.8	1273.4	810.4	726.8	734.0	746.9	756.5	768.2	769.9
27.5°	2102.4	1995.8	1625.7	1017.2	703.3	680.7	686.3	690.8	689.8	694.2	695.4
30°	2173.4	2016.4	1517.4	795.2	658.8	641.5	631.4	627.5	627.5	634.8	637.5
32.5°	2268.8	2047.3	1362.1	681.4	637.5	613.5	580.9	566.4	572.0	596.7	602.3
35°	2373.7	2080.5	1151.7	642.6	633.0	600.5	550.1	523.3	523.7	546.8	554.1
37.5°	2488.0	2122.4	921.3	635.3	643.1	601.1	533.9	496.9	481.8	481.8	484.5
40°	2634.5	2165.6	745.9	640.4	664.4	607.9	525.4	476.1	433.4	434.6	436.8
42.5°	2825.1	2202.6	651.6	651.0	690.3	616.9	524.9	448.7	411.7	436.8	459.8
45°	3037.1	2221.1	610.0	660.6	711.1	622.4	515.8	444.1	414.4	489.5	533.2
47.5°	3281.0	2210.5	587.1	663.9	716.0	622.4	505.8	454.8	434.1	566.9	617.9
50°	3548.6	2179.6	564.7	657.2	714.4	621.3	515.4	465.4	441.2	580.3	615.7
52.5°	3863.2	2153.9	541.0	642.6	702.7	615.2	526.5	460.9	418.3	527.7	552.4
55°	4221.9	2161.2	514.8	621.8	684.1	603.4	522.6	443.0	394.3	464.9	480.1
57.5°	4680.7	2248.1	483.4	595.5	658.8	583.8	508.6	434.6	386.9	421.7	430.6
60°	5192.7	2399.6	444.1	569.2	627.5	552.4	498.0	438.6	390.4	418.3	422.8
62.5°	5568.4	2487.5	410.4	530.4	584.8	517.6	484.5	443.6	399.2	430.1	429.0
65°	5670.5	2342.9	368.5	473.9	527.1	481.1	467.7	449.2	403.2	439.6	434.6
66°	5527.5	2187.0	349.9	447.4	498.0	463.2	459.3	448.7	401.5	440.8	432.4
67.5°	5180.3	1867.3	318.0	408.8	451.4	436.2	445.7	443.6	397.1	439.6	427.9
70°	4224.8	1274.1	271.9	340.4	375.8	384.1	420.0	425.5	382.5	420.0	394.3
72.5°	2951.8	776.0	240.6	264.1	303.9	327.5	384.7	401.0	362.8	366.8	342.1
75°	1426.6	412.1	218.2	204.6	236.1	273.7	342.1	367.2	332.0	306.7	297.8
77.5°	444.8	251.7	185.1	164.8	185.1	221.0	286.0	322.0	295.5	256.8	253.4
80°	238.9	185.1	142.4	132.3	146.3	173.3	224.8	268.7	254.0	230.4	205.8
82.5°	157.6	120.1	105.5	102.6	111.6	132.3	167.2	222.6	222.6	197.4	143.5
85°	81.2	73.4	72.4	72.4	78.0	88.0	113.8	171.5	182.8	104.4	86.3
87.5°	40.3	42.1	39.3	41.0	43.7	43.2	54.3	86.3	103.1	63.4	52.7
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)