

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: P192271

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192271  
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-03-LED-E1-T3R-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12242 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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

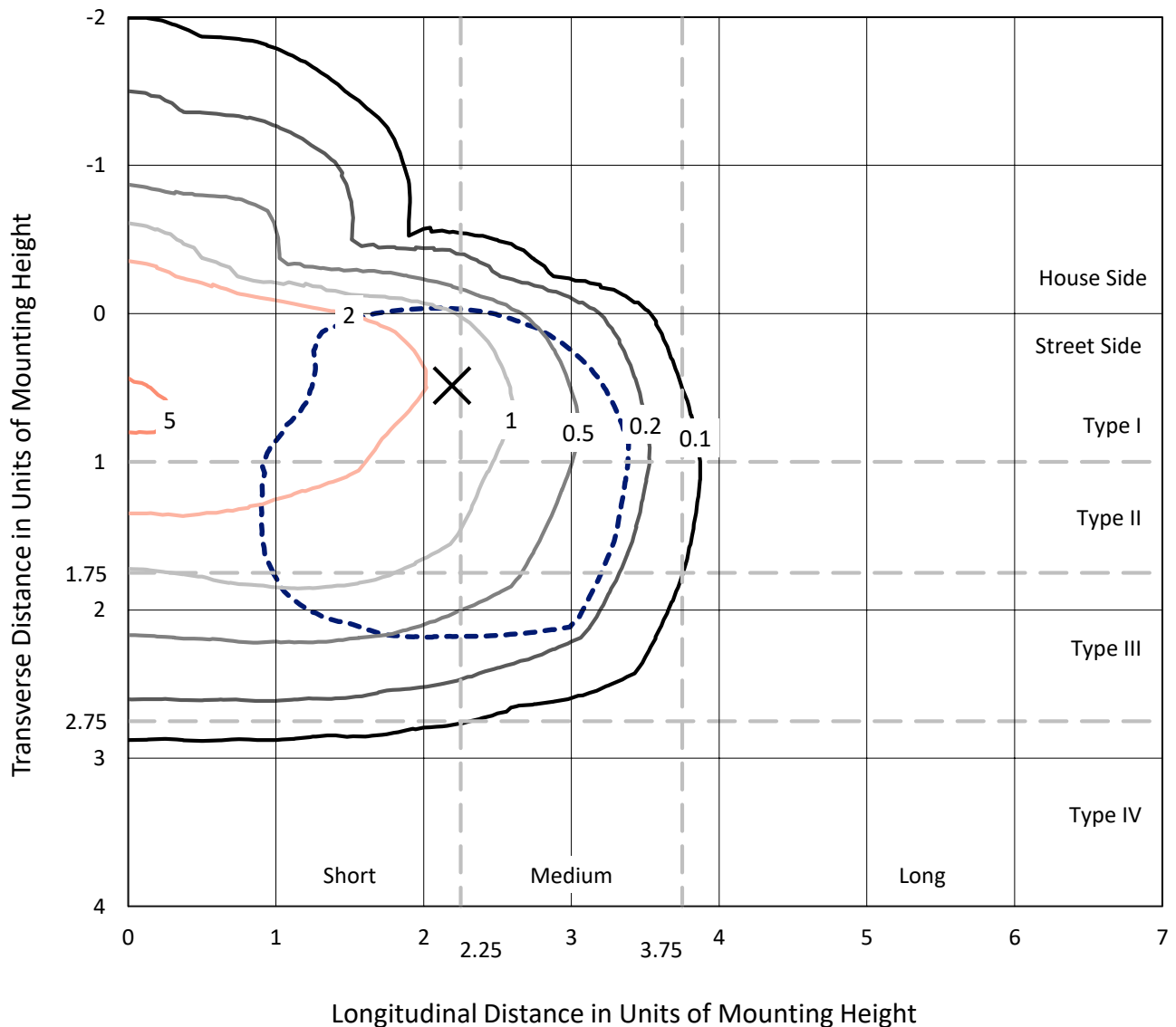


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

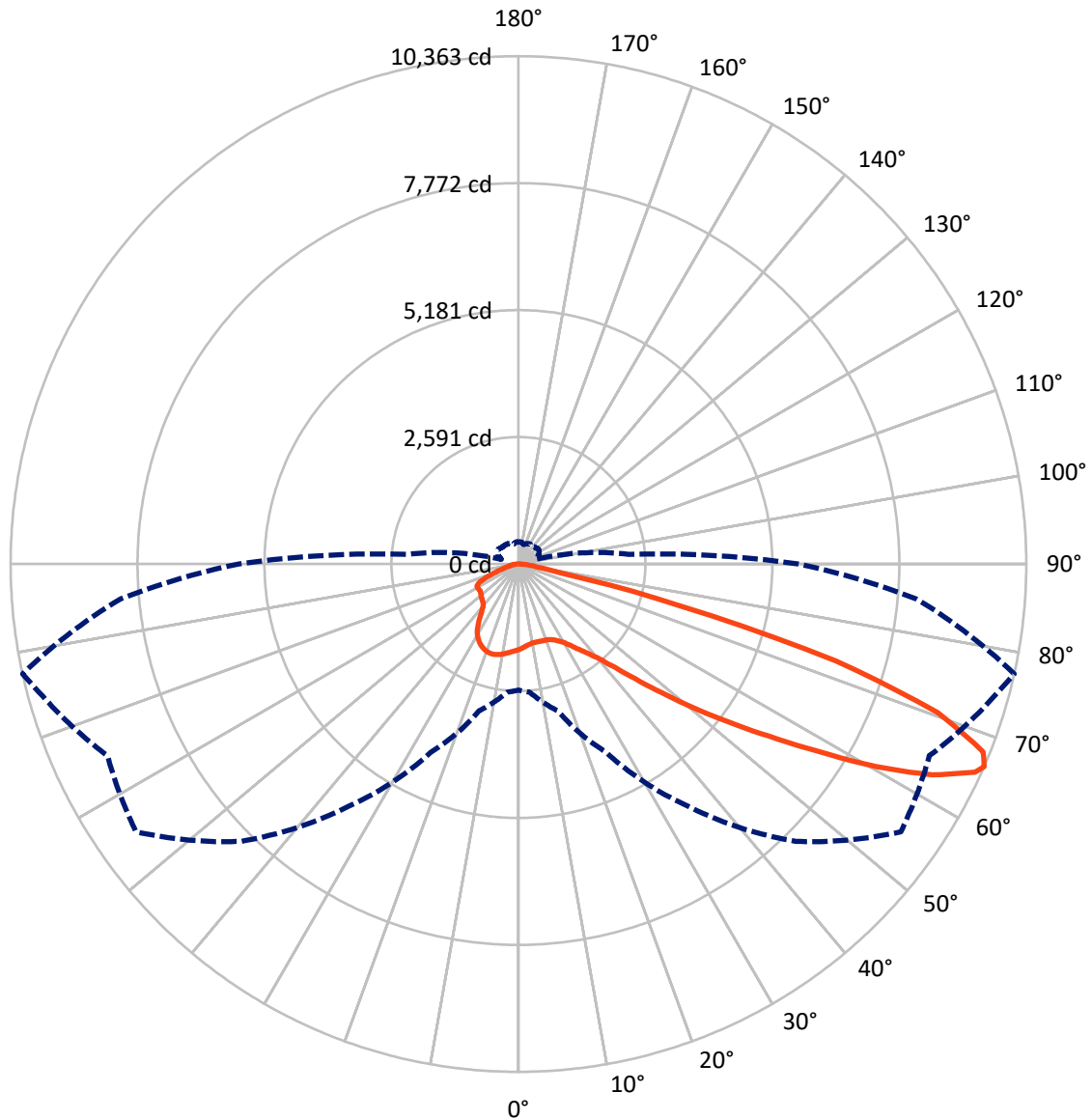


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - Full Cutoff

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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	2091.5	0.0	2091.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	10150.5	0.0	10150.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	12242.0	0.0	12242.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	1.3
10°-20°	439.7	3.6
20°-30°	750.4	6.1
30°-40°	1201.3	9.8
40°-50°	1855.9	15.2
50°-60°	2632.3	21.5
60°-70°	3521.3	28.8
70°-80°	1529.2	12.5
80°-90°	155.9	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°	12242.0	100.0
0°-180°	12242.0	100.0



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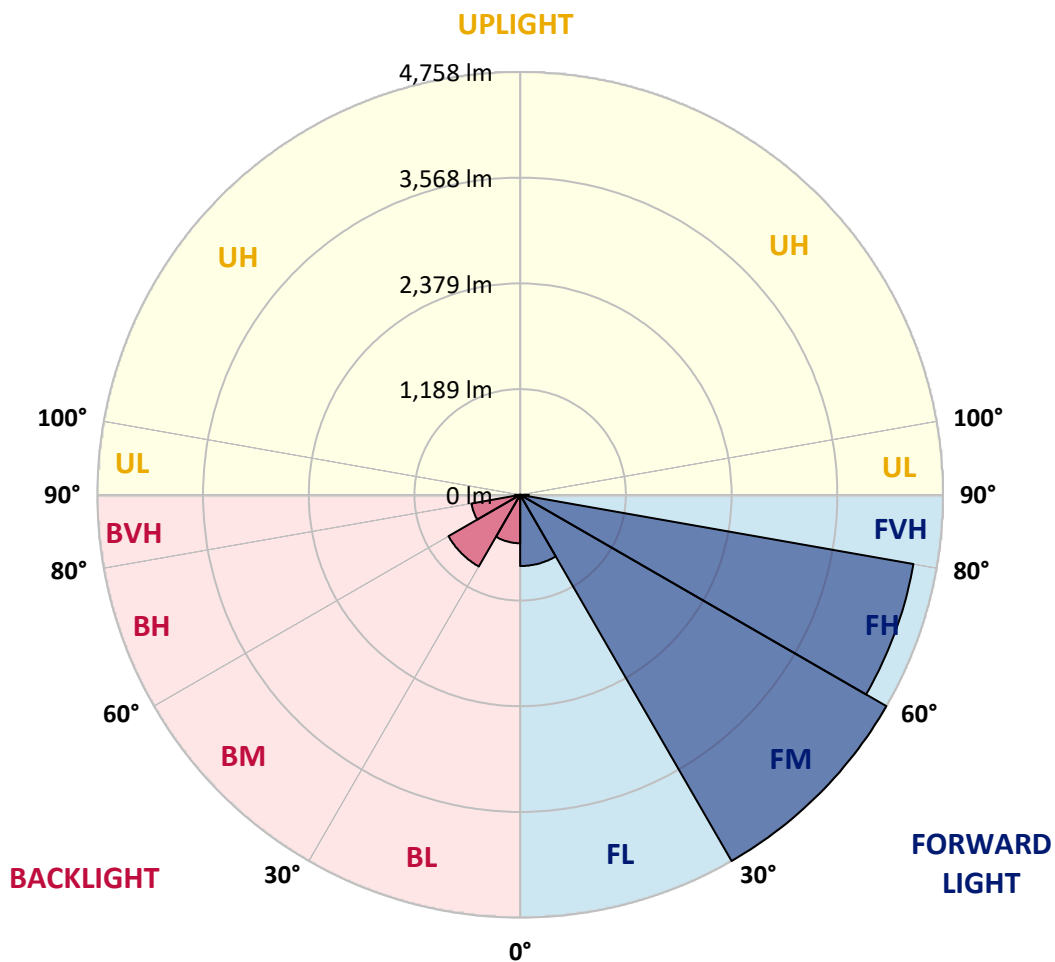
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.3	6.5			
FM	(30°-60°)	4757.9	38.9			
FH	(60°-80°)	4493.6	36.7			G2/5000
FVH	(80°-90°)	97.8	0.8			G1/100
BL	(0°-30°)	544.7	4.4	B2/1000		
BM	(30°-60°)	931.6	7.6	B1/1000		
BH	(60°-80°)	557.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	58.1	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°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1543.2	1553.7	1562.3	1570.4	1586.6	1613.2	1643.9	1668.8	1704.6	1711.6	1730.7
5°	1401.5	1401.5	1408.5	1420.6	1442.6	1482.5	1524.2	1579.7	1657.8	1676.3	1727.2
7.5°	1332.7	1333.3	1337.3	1347.7	1366.8	1403.3	1449.0	1514.3	1620.2	1650.8	1737.6
10°	1358.2	1352.4	1343.7	1338.5	1341.4	1362.8	1406.2	1479.0	1597.0	1636.4	1760.7
12.5°	1500.4	1489.5	1459.4	1419.5	1381.3	1365.7	1391.1	1462.3	1587.2	1632.9	1791.4
15°	1733.0	1728.3	1672.2	1589.5	1497.0	1419.5	1402.1	1455.9	1588.4	1637.0	1827.8
17.5°	2024.5	2018.1	1944.1	1823.8	1672.8	1521.8	1440.9	1461.1	1592.4	1643.9	1863.1
20°	2318.9	2299.3	2219.4	2076.0	1882.2	1661.2	1505.1	1474.4	1597.6	1651.4	1900.1
22.5°	2538.7	2522.5	2450.8	2311.4	2088.1	1822.6	1591.3	1497.6	1614.4	1673.4	1945.8
25°	2731.9	2733.1	2661.9	2527.2	2296.4	1993.8	1702.3	1559.4	1657.2	1718.5	2008.3
27.5°	2970.8	2956.9	2890.4	2756.8	2502.3	2166.8	1836.5	1644.5	1720.8	1782.7	2090.4
30°	3256.6	3246.7	3169.8	3018.2	2730.8	2352.5	1989.8	1743.4	1803.0	1867.2	2198.0
32.5°	3592.6	3588.0	3508.2	3313.2	2994.5	2571.1	2169.7	1874.1	1925.6	1992.1	2352.5
35°	3987.1	3987.7	3893.4	3659.1	3283.2	2825.6	2373.9	2042.4	2074.8	2144.2	2536.4
37.5°	4230.1	4259.6	4224.3	3985.4	3610.0	3110.2	2638.8	2265.7	2244.9	2314.9	2733.7
40°	4282.1	4318.0	4429.6	4308.1	3975.5	3423.7	2873.6	2480.3	2454.3	2539.9	2987.6
42.5°	4209.2	4259.0	4495.0	4580.6	4363.7	3810.1	3189.5	2799.0	2766.0	2881.2	3303.4
45°	4165.8	4202.9	4475.9	4722.3	4700.3	4246.8	3591.5	3199.3	3187.1	3338.1	3667.8
47.5°	4090.7	4124.2	4386.8	4755.3	4898.1	4647.1	4074.5	3688.6	3712.4	3910.2	4079.1
50°	4131.1	4145.0	4287.3	4671.4	4955.4	4940.4	4614.1	4255.5	4336.5	4583.5	4544.7
52.5°	4125.4	4161.2	4275.8	4533.7	4962.9	5121.4	5145.7	4887.7	5058.4	5341.8	5061.3
55°	3335.2	3401.2	4139.8	4499.0	4989.5	5299.0	5618.9	5554.1	5872.2	6202.5	5644.3
57.5°	3184.8	3226.5	3636.0	4571.9	5130.7	5638.0	6145.2	6287.5	6819.7	7203.2	6354.6
60°	3155.3	3206.8	3630.8	4661.0	5417.0	6190.4	6925.5	7175.4	7972.5	8392.4	7178.3
62.5°	3063.4	3118.9	3596.7	4649.4	5823.6	6954.5	7924.5	8119.4	9065.7	9474.1	7867.2
65°	2771.8	2823.9	3318.4	4462.6	6097.8	7770.0	9106.8	8984.7	9928.7	10235.9	8210.8
66°	2572.3	2623.2	3099.2	4242.8	6034.2	8001.4	9525.6	9252.6	10121.9	10362.6	8143.7
67.5°	2207.3	2247.2	2673.5	3750.5	5695.8	8066.2	9877.8	9453.9	10142.2	10227.2	7760.2
70°	1394.6	1406.2	1737.6	2589.1	4311.6	6995.5	9341.6	8954.1	9305.8	9075.6	6505.6
72.5°	605.0	601.0	834.1	1317.1	2441.0	4694.0	7556.6	7388.3	7299.8	6774.6	4554.0
75°	336.6	341.3	433.2	611.4	992.0	2305.6	4943.3	4730.4	3994.1	3408.1	2065.0
77.5°	270.1	276.5	359.2	433.8	445.4	804.0	2313.1	1882.2	1133.1	909.3	573.8
80°	213.4	225.0	313.5	337.8	300.2	331.4	747.3	597.5	448.3	411.3	297.3
82.5°	168.9	177.0	269.0	255.7	210.0	223.3	358.0	348.8	291.5	265.5	171.8
85°	121.5	136.5	221.0	192.6	137.7	150.4	237.7	227.9	167.2	136.5	75.8
87.5°	49.7	64.8	156.2	127.8	76.9	70.0	118.6	111.6	79.2	57.8	37.6
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°	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5	1744.5
2.5°	1742.8	1756.7	1774.6	1785.6	1791.4	1795.4	1801.8	1801.2	1803.0	1803.5	1805.9
5°	1754.4	1777.5	1803.5	1810.5	1810.5	1804.1	1797.8	1787.3	1783.3	1782.1	1783.3
7.5°	1784.5	1809.9	1832.5	1824.4	1807.0	1781.6	1748.6	1719.7	1704.1	1698.8	1697.7
10°	1822.6	1853.3	1862.5	1831.9	1781.0	1719.7	1654.3	1606.9	1579.7	1572.2	1569.9
12.5°	1868.9	1897.8	1885.1	1820.3	1726.0	1627.1	1536.9	1461.1	1404.4	1386.5	1385.3
15°	1919.8	1942.4	1897.8	1784.5	1643.9	1498.1	1337.3	1206.6	1136.0	1113.5	1111.7
17.5°	1967.2	1978.8	1890.3	1722.0	1523.0	1287.0	1073.6	972.9	948.6	954.4	955.6
20°	2007.7	2007.7	1864.9	1632.3	1332.7	1008.8	874.0	872.3	889.6	907.0	910.4
22.5°	2052.3	2025.7	1820.3	1505.7	1063.2	825.4	805.8	821.9	841.6	860.7	863.6
25°	2107.2	2040.1	1758.4	1313.6	835.8	749.6	757.2	770.5	780.3	792.4	794.2
27.5°	2168.5	2058.6	1676.9	1049.3	725.4	702.2	708.0	712.6	711.5	716.1	717.3
30°	2242.0	2080.0	1565.2	820.2	679.7	661.7	651.3	647.3	647.3	654.8	657.7
32.5°	2340.3	2111.8	1405.0	702.8	657.7	632.8	599.3	584.2	590.0	615.4	621.2
35°	2448.5	2146.0	1188.1	662.9	653.0	619.5	567.4	539.7	540.3	564.0	571.5
37.5°	2566.5	2189.4	950.4	655.4	663.5	620.1	550.7	512.5	496.9	496.9	499.8
40°	2717.5	2233.9	769.3	660.6	685.4	627.0	542.0	491.1	447.1	448.3	450.6
42.5°	2914.1	2272.1	672.1	671.6	712.0	636.3	541.4	462.7	424.6	450.6	474.3
45°	3132.8	2291.2	629.3	681.4	733.4	642.1	532.2	458.1	427.5	505.0	550.1
47.5°	3384.4	2280.2	605.6	684.9	738.7	642.1	521.7	469.1	447.7	584.8	637.4
50°	3660.3	2248.4	582.5	677.9	736.9	640.9	531.6	480.1	455.2	598.7	635.1
52.5°	3984.8	2221.7	558.2	662.9	724.8	634.5	543.1	475.5	431.5	544.3	569.8
55°	4355.0	2229.3	531.0	641.5	705.7	622.4	539.1	457.0	406.6	479.5	495.1
57.5°	4828.2	2318.9	498.6	614.3	679.7	602.1	524.6	448.3	399.1	435.0	444.2
60°	5356.3	2475.1	458.1	587.1	647.3	569.8	513.6	452.3	402.6	431.5	436.1
62.5°	5743.8	2565.9	423.4	547.2	603.3	533.9	499.8	457.5	411.8	443.7	442.5
65°	5849.1	2416.7	380.0	488.8	543.7	496.3	482.4	463.3	415.9	453.5	448.3
66°	5701.6	2255.9	360.9	461.6	513.6	477.8	473.7	462.7	414.2	454.6	446.0
67.5°	5343.5	1926.2	328.0	421.7	465.6	450.0	459.9	457.5	409.5	453.5	441.3
70°	4357.9	1314.2	280.5	351.1	387.5	396.2	433.2	439.0	394.5	433.2	406.6
72.5°	3044.9	800.5	248.1	272.4	313.5	337.8	396.8	413.6	374.2	378.3	352.8
75°	1471.5	425.1	225.0	211.1	243.5	282.3	352.8	378.9	342.4	316.4	307.1
77.5°	458.7	259.7	190.9	170.1	190.9	227.9	295.0	332.0	304.8	264.9	261.5
80°	246.4	190.9	146.9	136.5	151.0	178.7	232.0	277.1	262.0	237.7	212.3
82.5°	162.5	123.8	108.7	105.9	115.1	136.5	172.4	229.6	229.6	203.6	148.1
85°	83.9	75.8	74.6	74.6	80.4	90.8	117.4	177.0	188.6	107.6	89.1
87.5°	41.6	43.4	40.5	42.2	45.1	44.5	56.1	89.1	106.4	65.4	54.4
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)