

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: P194021

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194021  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12249 lumens  
Efficiency: N/A  
Efficacy: 98.8 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): 124  
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

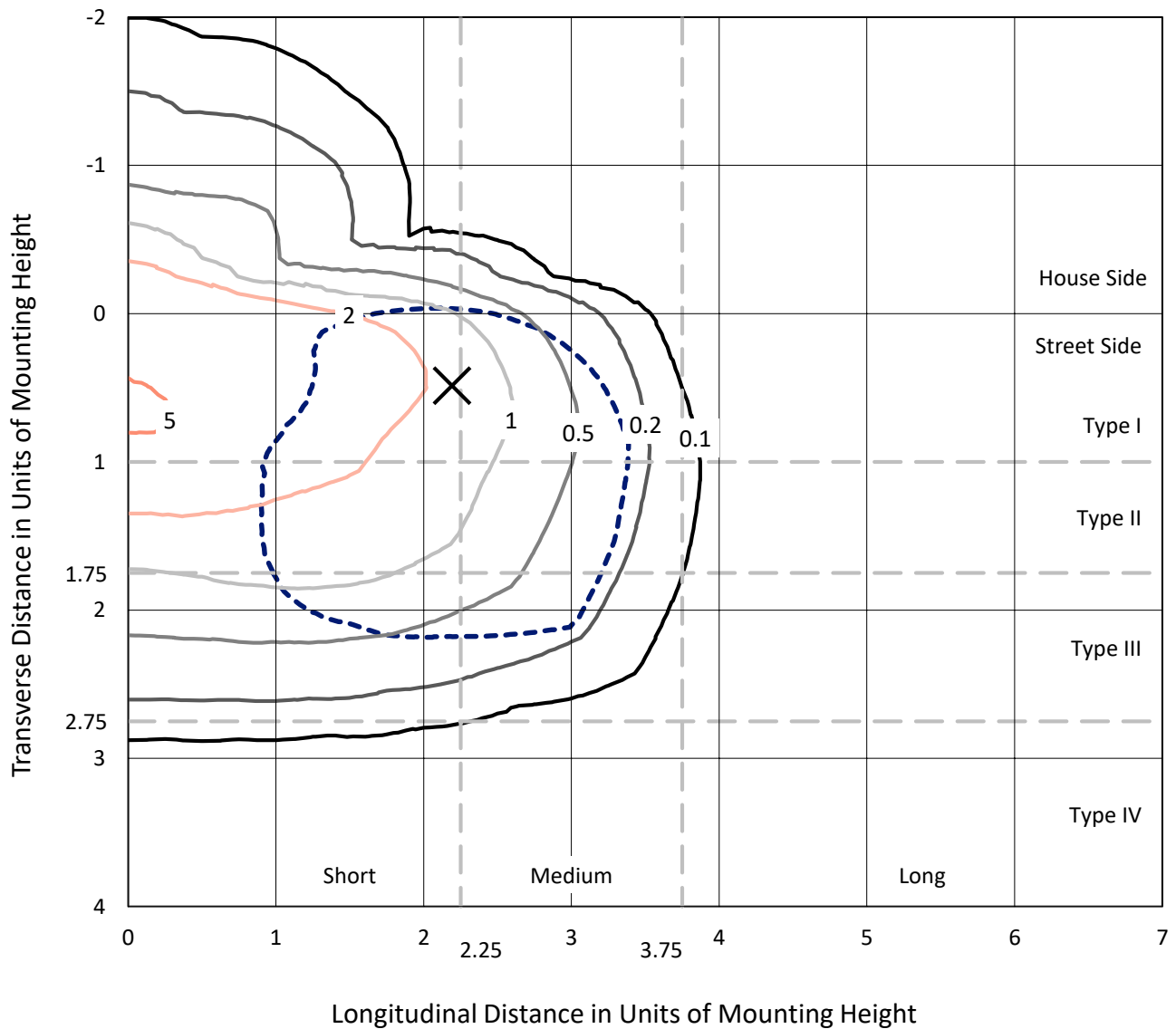


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

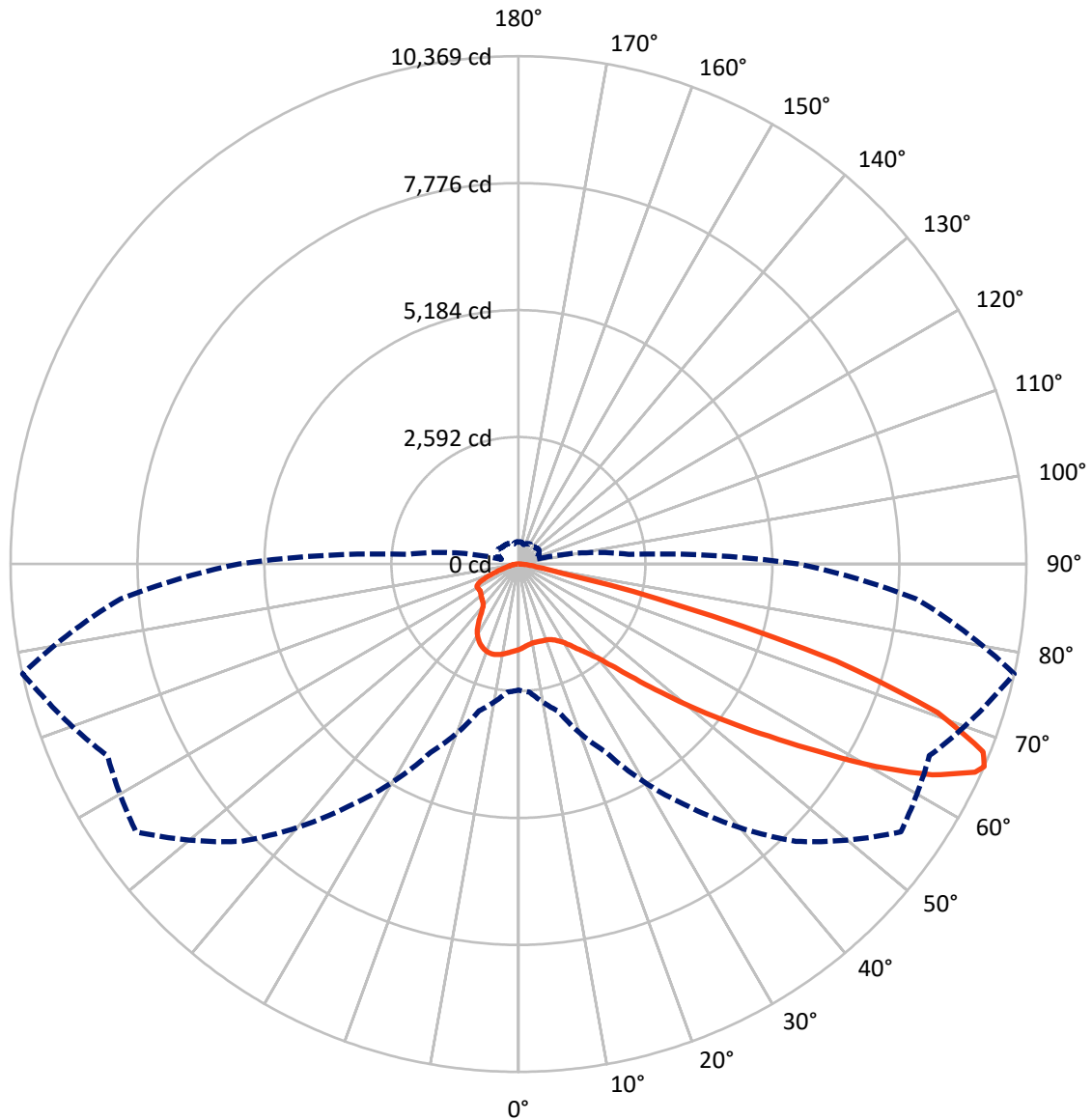


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - Full Cutoff

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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	2092.7	0.0	2092.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	10156.3	0.0	10156.3
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	12249.0	0.0	12249.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	1.3
10°-20°	440.0	3.6
20°-30°	750.9	6.1
30°-40°	1202.0	9.8
40°-50°	1857.0	15.2
50°-60°	2633.8	21.5
60°-70°	3523.3	28.8
70°-80°	1530.1	12.5
80°-90°	156.0	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°	12249.0	100.0
0°-180°	12249.0	100.0



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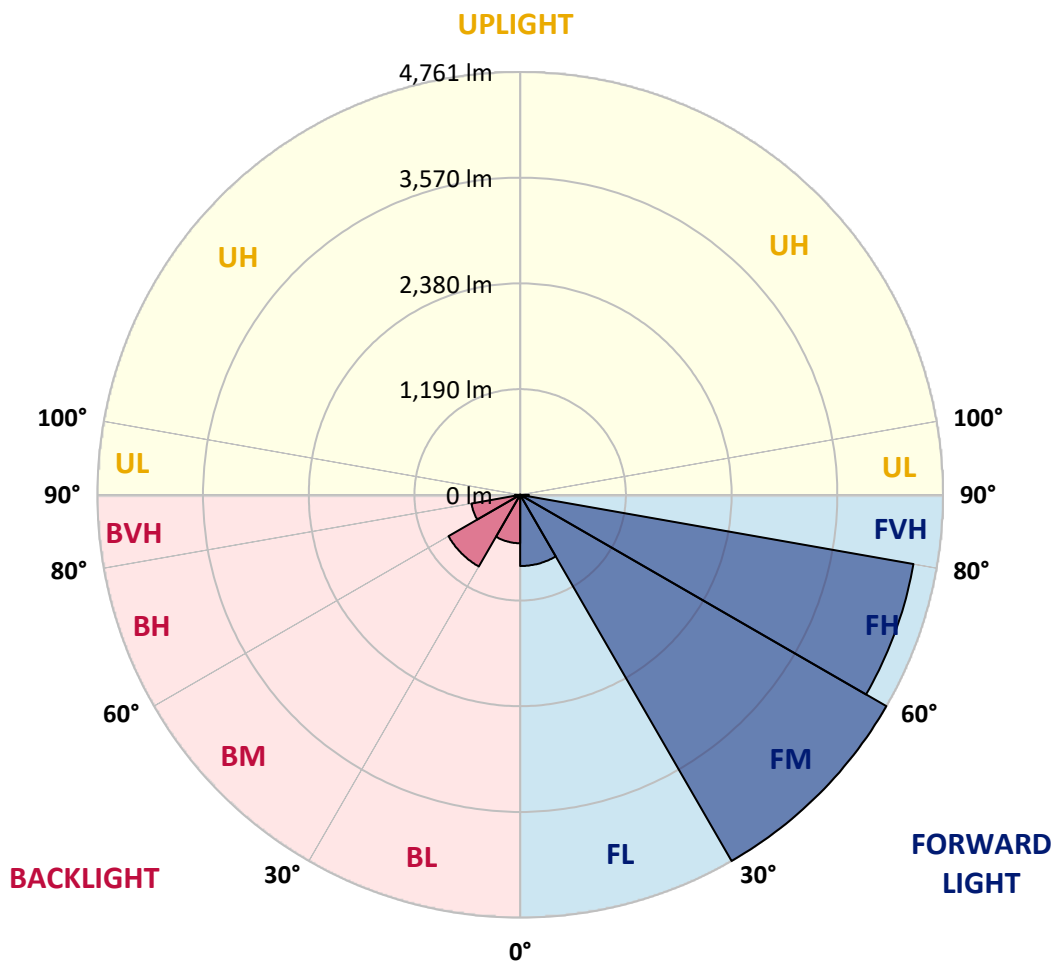
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.8	6.5			
FM	(30°-60°)	4760.6	38.9			
FH	(60°-80°)	4496.1	36.7			G2/5000
FVH	(80°-90°)	97.9	0.8			G1/100
BL	(0°-30°)	545.0	4.4	B2/1000		
BM	(30°-60°)	932.2	7.6	B1/1000		
BH	(60°-80°)	557.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	58.2	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°	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5
2.5°	1544.1	1554.5	1563.2	1571.3	1587.5	1614.2	1644.8	1669.7	1705.6	1712.6	1731.7
5°	1402.3	1402.3	1409.3	1421.4	1443.4	1483.4	1525.0	1580.6	1658.7	1677.2	1728.2
7.5°	1333.5	1334.0	1338.1	1348.5	1367.6	1404.1	1449.8	1515.2	1621.1	1651.8	1738.6
10°	1358.9	1353.1	1344.5	1339.3	1342.1	1363.6	1407.0	1479.9	1598.0	1637.3	1761.7
12.5°	1501.3	1490.3	1460.2	1420.3	1382.1	1366.5	1391.9	1463.1	1588.1	1633.8	1792.4
15°	1734.0	1729.3	1673.2	1590.4	1497.8	1420.3	1402.9	1456.7	1589.3	1637.9	1828.9
17.5°	2025.7	2019.3	1945.2	1824.8	1673.8	1522.7	1441.7	1461.9	1593.3	1644.8	1864.2
20°	2320.2	2300.6	2220.7	2077.2	1883.3	1662.2	1505.9	1475.3	1598.5	1652.4	1901.2
22.5°	2540.2	2524.0	2452.2	2312.7	2089.3	1823.7	1592.2	1498.4	1615.3	1674.4	1946.9
25°	2733.5	2734.6	2663.5	2528.6	2297.7	1995.0	1703.3	1560.3	1658.1	1719.5	2009.5
27.5°	2972.5	2958.6	2892.1	2758.4	2503.7	2168.0	1837.6	1645.4	1721.8	1783.7	2091.6
30°	3258.4	3248.6	3171.6	3020.0	2732.3	2353.8	1990.9	1744.4	1804.0	1868.2	2199.3
32.5°	3594.7	3590.0	3510.2	3315.1	2996.2	2572.6	2170.9	1875.2	1926.7	1993.3	2353.8
35°	3989.4	3990.0	3895.6	3661.2	3285.0	2827.2	2375.2	2043.6	2076.0	2145.5	2537.9
37.5°	4232.5	4262.0	4226.7	3987.7	3612.0	3112.0	2640.3	2267.0	2246.2	2316.2	2735.2
40°	4284.6	4320.4	4432.1	4310.6	3977.8	3425.7	2875.3	2481.7	2455.7	2541.3	2989.3
42.5°	4211.6	4261.4	4497.5	4583.2	4366.2	3812.3	3191.3	2800.6	2767.6	2882.8	3305.3
45°	4168.2	4205.3	4478.4	4725.0	4703.0	4249.3	3593.5	3201.1	3189.0	3340.0	3669.9
47.5°	4093.0	4126.6	4389.3	4758.0	4900.9	4649.8	4076.8	3690.8	3714.5	3912.4	4081.4
50°	4133.5	4147.4	4289.8	4674.1	4958.2	4943.2	4616.8	4257.9	4339.0	4586.1	4547.3
52.5°	4127.7	4163.6	4278.2	4536.3	4965.8	5124.3	5148.7	4890.5	5061.3	5344.9	5064.2
55°	3337.1	3403.1	4142.2	4501.6	4992.4	5302.0	5622.1	5557.3	5875.6	6206.0	5647.5
57.5°	3186.7	3228.3	3638.1	4574.5	5133.6	5641.2	6148.7	6291.1	6823.6	7207.3	6358.3
60°	3157.1	3208.6	3632.9	4663.6	5420.1	6193.9	6929.5	7179.5	7977.1	8397.2	7182.4
62.5°	3065.1	3120.7	3598.7	4652.1	5827.0	6958.4	7929.0	8124.1	9070.9	9479.5	7871.7
65°	2773.4	2825.5	3320.3	4465.1	6101.3	7774.5	9112.0	8989.9	9934.4	10241.7	8215.5
66°	2573.7	2624.7	3101.0	4245.2	6037.6	8006.0	9531.0	9257.8	10127.7	10368.5	8148.4
67.5°	2208.5	2248.5	2675.0	3752.7	5699.1	8070.8	9883.5	9459.3	10148.0	10233.1	7764.6
70°	1395.4	1407.0	1738.6	2590.5	4314.1	6999.5	9347.0	8959.2	9311.1	9080.7	6509.3
72.5°	605.4	601.3	834.6	1317.8	2442.4	4696.6	7560.9	7392.5	7304.0	6778.4	4556.6
75°	336.8	341.5	433.5	611.7	992.6	2306.9	4946.1	4733.1	3996.3	3410.1	2066.2
77.5°	270.3	276.6	359.4	434.1	445.6	804.5	2314.5	1883.3	1133.8	909.8	574.1
80°	213.6	225.1	313.7	338.0	300.4	331.6	747.8	597.9	448.5	411.5	297.5
82.5°	169.0	177.1	269.1	255.8	210.1	223.4	358.3	349.0	291.7	265.7	171.9
85°	121.5	136.6	221.1	192.7	137.7	150.5	237.9	228.0	167.3	136.6	75.8
87.5°	49.8	64.8	156.3	127.9	77.0	70.0	118.6	111.7	79.3	57.9	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°	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5	1745.5
2.5°	1743.8	1757.7	1775.6	1786.6	1792.4	1796.5	1802.8	1802.3	1804.0	1804.6	1806.9
5°	1755.4	1778.5	1804.6	1811.5	1811.5	1805.2	1798.8	1788.4	1784.3	1783.2	1784.3
7.5°	1785.5	1810.9	1833.5	1825.4	1808.0	1782.6	1749.6	1720.7	1705.0	1699.8	1698.7
10°	1823.7	1854.3	1863.6	1832.9	1782.0	1720.7	1655.3	1607.8	1580.6	1573.1	1570.8
12.5°	1870.0	1898.9	1886.2	1821.4	1727.0	1628.1	1537.8	1461.9	1405.2	1387.3	1386.1
15°	1920.9	1943.5	1898.9	1785.5	1644.8	1499.0	1338.1	1207.3	1136.7	1114.1	1112.4
17.5°	1968.4	1979.9	1891.4	1723.0	1523.9	1287.7	1074.2	973.5	949.2	955.0	956.1
20°	2008.9	2008.9	1865.9	1633.3	1333.5	1009.4	874.5	872.8	890.1	907.5	911.0
22.5°	2053.4	2026.8	1821.4	1506.5	1063.8	825.9	806.2	822.4	842.1	861.2	864.1
25°	2108.4	2041.3	1759.4	1314.4	836.3	750.1	757.6	770.9	780.7	792.9	794.6
27.5°	2169.8	2059.8	1677.8	1049.9	725.8	702.6	708.4	713.0	711.9	716.5	717.7
30°	2243.3	2081.2	1566.1	820.7	680.0	662.1	651.7	647.6	647.6	655.2	658.1
32.5°	2341.7	2113.1	1405.8	703.2	658.1	633.2	599.6	584.5	590.3	615.8	621.6
35°	2449.9	2147.2	1188.8	663.3	653.4	619.9	567.8	540.0	540.6	564.3	571.8
37.5°	2568.0	2190.6	950.9	655.7	663.8	620.4	551.0	512.8	497.2	497.2	500.0
40°	2719.0	2235.2	769.8	660.9	685.8	627.4	542.3	491.4	447.4	448.5	450.9
42.5°	2915.8	2273.4	672.5	671.9	712.5	636.6	541.7	463.0	424.8	450.9	474.6
45°	3134.6	2292.5	629.7	681.8	733.9	642.4	532.5	458.4	427.7	505.3	550.4
47.5°	3386.3	2281.5	606.0	685.3	739.1	642.4	522.0	469.4	448.0	585.1	637.8
50°	3662.4	2249.6	582.8	678.3	737.3	641.3	531.9	480.4	455.5	599.0	635.5
52.5°	3987.1	2223.0	558.5	663.3	725.2	634.9	543.5	475.7	431.8	544.6	570.1
55°	4357.5	2230.5	531.3	641.8	706.1	622.7	539.4	457.2	406.9	479.8	495.4
57.5°	4830.9	2320.2	498.9	614.6	680.0	602.5	524.9	448.5	399.3	435.2	444.5
60°	5359.3	2476.5	458.4	587.4	647.6	570.1	513.9	452.6	402.8	431.8	436.4
62.5°	5747.1	2567.4	423.7	547.5	603.6	534.2	500.0	457.8	412.1	443.9	442.8
65°	5852.4	2418.1	380.2	489.1	544.0	496.6	482.7	463.6	416.1	453.7	448.5
66°	5704.8	2257.2	361.1	461.9	513.9	478.1	474.0	463.0	414.4	454.9	446.2
67.5°	5346.6	1927.3	328.2	421.9	465.9	450.3	460.1	457.8	409.8	453.7	441.6
70°	4360.4	1314.9	280.7	351.3	387.8	396.5	433.5	439.3	394.7	433.5	406.9
72.5°	3046.6	801.0	248.3	272.6	313.7	338.0	397.0	413.8	374.5	378.5	353.0
75°	1472.4	425.4	225.1	211.2	243.7	282.4	353.0	379.1	342.6	316.6	307.3
77.5°	459.0	259.9	191.0	170.2	191.0	228.0	295.2	332.2	305.0	265.1	261.6
80°	246.6	191.0	147.0	136.6	151.1	178.8	232.1	277.2	262.2	237.9	212.4
82.5°	162.6	123.9	108.8	105.9	115.2	136.6	172.5	229.8	229.8	203.7	148.2
85°	83.9	75.8	74.7	74.7	80.4	90.9	117.5	177.1	188.7	107.6	89.1
87.5°	41.7	43.4	40.5	42.2	45.1	44.6	56.1	89.1	106.5	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)