

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: P191471

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191471
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 12523 lumens
Efficiency: N/A
Efficacy: 130.4 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

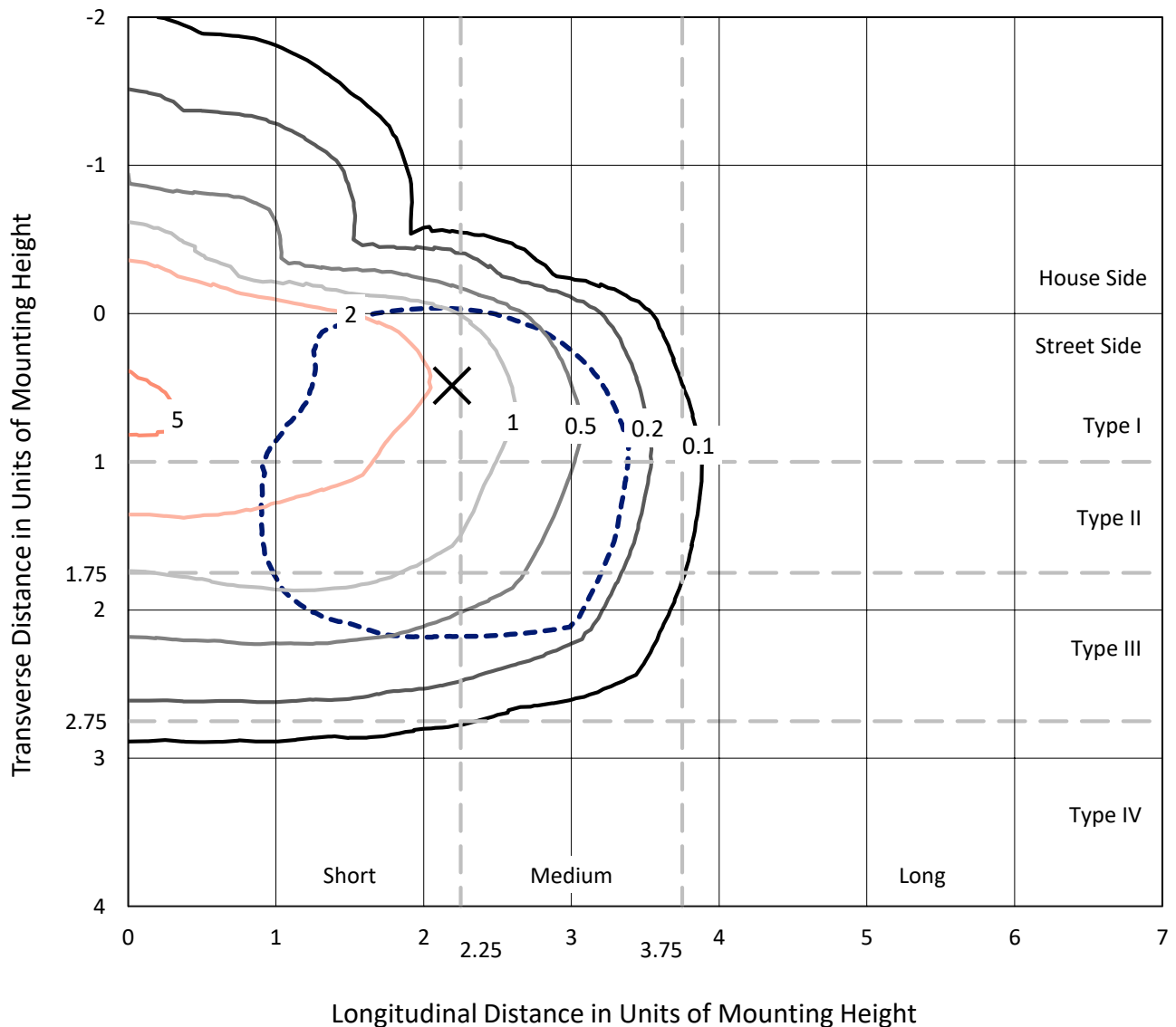


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

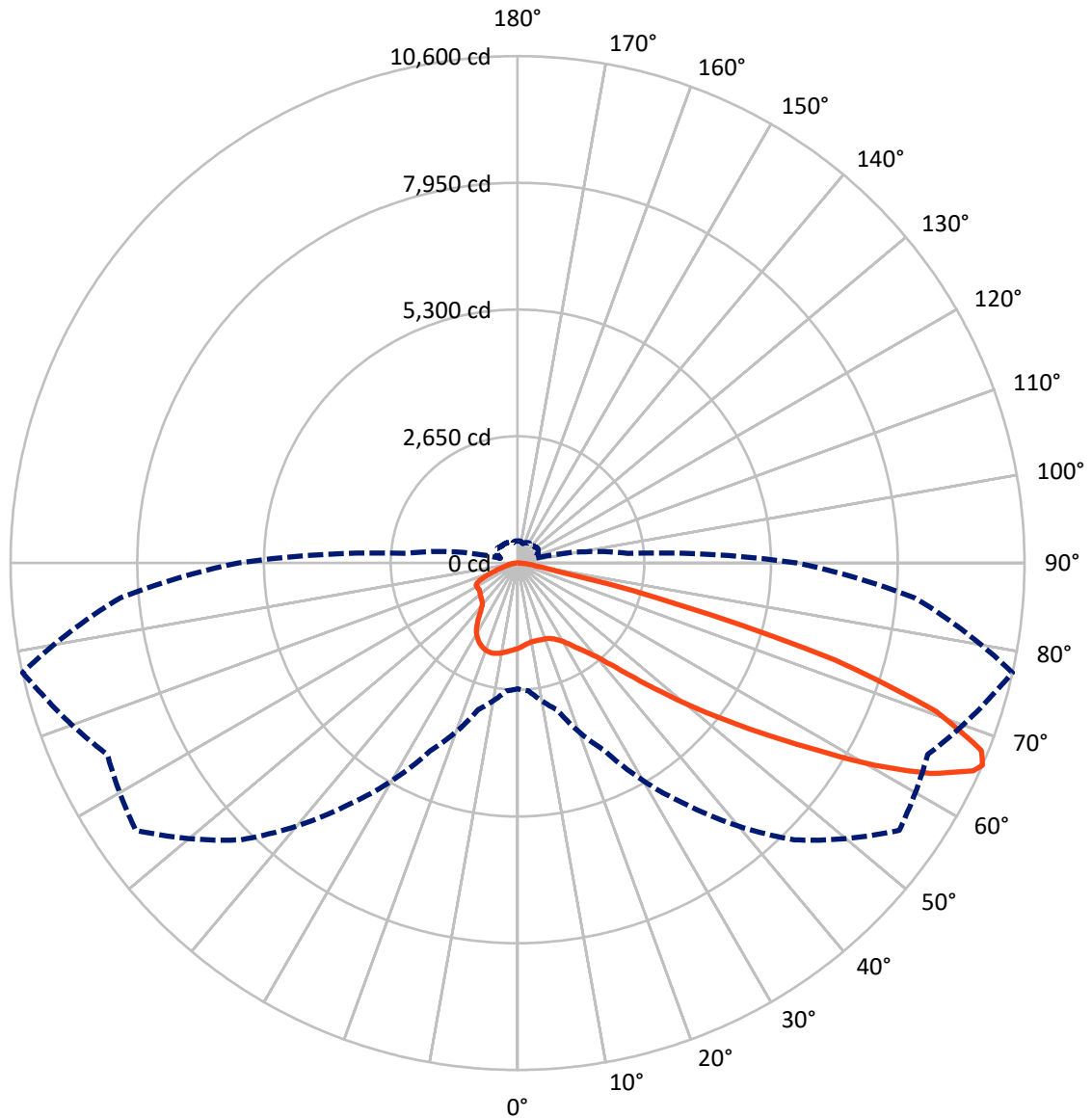


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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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
House Side	Lumens	2139.5	0.0	2139.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10383.5	0.0	10383.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	12523.0	0.0	12523.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.3
10°-20°	449.8	3.6
20°-30°	767.7	6.1
30°-40°	1228.9	9.8
40°-50°	1898.5	15.2
50°-60°	2692.7	21.5
60°-70°	3602.1	28.8
70°-80°	1564.3	12.5
80°-90°	159.5	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°	12523.0	100.0
0°-180°	12523.0	100.0



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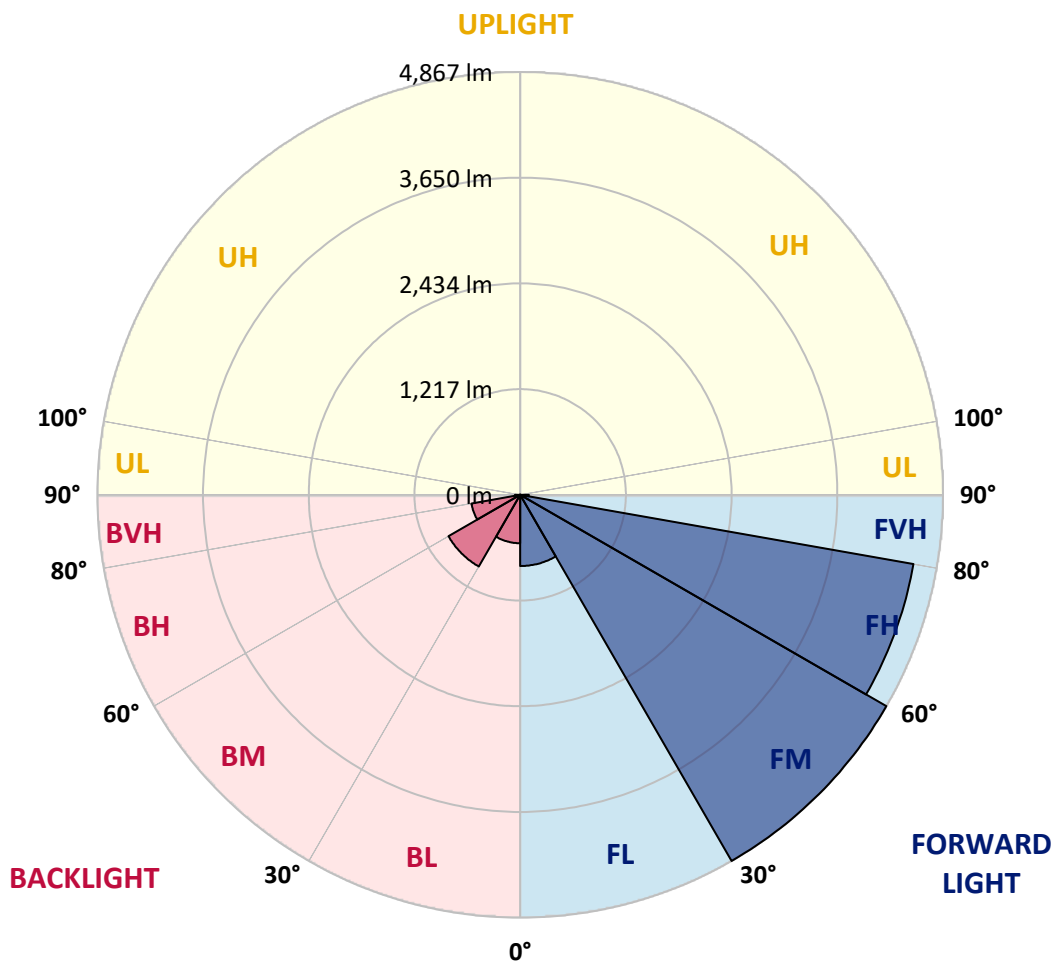
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.7	6.5			
FM	(30°-60°)	4867.1	38.9			
FH	(60°-80°)	4596.7	36.7			G2/5000
FVH	(80°-90°)	100.0	0.8			G2/225
BL	(0°-30°)	557.2	4.4	B2/1000		
BM	(30°-60°)	953.0	7.6	B1/1000		
BH	(60°-80°)	569.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	59.5	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°	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5
2.5°	1578.6	1589.4	1598.2	1606.4	1623.0	1650.2	1681.6	1707.1	1743.7	1750.9	1770.4
5°	1433.7	1433.7	1440.8	1453.2	1475.7	1516.5	1559.2	1616.0	1695.8	1714.8	1766.8
7.5°	1363.3	1363.9	1368.0	1378.6	1398.2	1435.5	1482.3	1549.1	1657.4	1688.7	1777.5
10°	1389.4	1383.4	1374.5	1369.2	1372.2	1394.1	1438.5	1512.9	1633.7	1674.0	1801.1
12.5°	1534.8	1523.7	1492.9	1452.1	1413.0	1397.0	1423.0	1495.9	1623.6	1670.4	1832.5
15°	1772.8	1768.0	1710.6	1626.0	1531.4	1452.1	1434.3	1489.3	1624.9	1674.6	1869.7
17.5°	2071.0	2064.4	1988.7	1865.7	1711.2	1556.7	1474.0	1494.6	1628.9	1681.6	1905.9
20°	2372.1	2352.1	2270.3	2123.6	1925.4	1699.3	1539.6	1508.2	1634.3	1689.3	1943.7
22.5°	2597.0	2580.4	2507.0	2364.4	2136.0	1864.4	1627.8	1532.0	1651.5	1711.8	1990.5
25°	2794.6	2795.8	2723.0	2585.2	2349.1	2039.6	1741.4	1595.2	1695.2	1757.9	2054.4
27.5°	3039.0	3024.8	2956.7	2820.1	2559.7	2216.5	1878.6	1682.2	1760.3	1823.6	2138.4
30°	3331.3	3321.2	3242.5	3087.5	2793.5	2406.5	2035.5	1783.4	1844.4	1910.1	2248.4
32.5°	3675.1	3670.3	3588.7	3389.2	3063.2	2630.1	2219.5	1917.1	1969.8	2037.8	2406.5
35°	4078.6	4079.2	3982.8	3743.1	3358.6	2890.4	2428.4	2089.3	2122.4	2193.4	2594.6
37.5°	4327.2	4357.4	4321.3	4076.9	3692.9	3181.6	2699.4	2317.7	2296.4	2368.0	2796.4
40°	4380.4	4417.1	4531.3	4407.0	4066.7	3502.3	2939.6	2537.2	2510.6	2598.2	3056.2
42.5°	4305.8	4356.7	4598.2	4685.7	4463.9	3897.5	3262.7	2863.2	2829.5	2947.3	3379.2
45°	4261.4	4299.4	4578.6	4830.7	4808.2	4344.3	3673.9	3272.7	3260.2	3414.7	3752.0
47.5°	4184.6	4218.9	4487.5	4864.4	5010.5	4753.8	4168.0	3773.3	3797.6	3999.9	4172.7
50°	4225.9	4240.1	4385.7	4778.6	5069.1	5053.8	4720.0	4353.2	4436.0	4688.7	4649.0
52.5°	4220.1	4256.7	4373.9	4637.8	5076.8	5238.9	5263.8	4999.9	5174.5	5464.4	5177.5
55°	3411.7	3479.3	4234.8	4602.3	5104.0	5420.6	5747.9	5681.6	6007.0	6344.9	5773.8
57.5°	3257.9	3300.6	3719.4	4676.8	5248.5	5767.4	6286.2	6431.8	6976.2	7368.5	6500.4
60°	3227.7	3280.4	3714.1	4768.0	5541.3	6332.5	7084.4	7340.1	8155.5	8585.0	7343.0
62.5°	3133.7	3190.5	3679.2	4756.1	5957.3	7114.1	8106.4	8305.7	9273.8	9691.5	8047.8
65°	2835.4	2888.7	3394.6	4565.0	6237.7	7948.3	9315.8	9190.9	10156.6	10470.8	8399.2
66°	2631.3	2683.4	3170.3	4340.2	6172.7	8185.0	9744.2	9465.0	10354.2	10600.4	8330.6
67.5°	2258.0	2298.8	2734.9	3836.6	5826.5	8251.3	10104.5	9670.9	10375.0	10461.9	7938.3
70°	1426.6	1438.5	1777.5	2648.5	4410.6	7156.1	9556.0	9159.6	9519.4	9283.9	6654.9
72.5°	618.9	614.8	853.2	1347.3	2497.0	4801.7	7730.0	7557.9	7467.3	6930.1	4658.5
75°	344.3	349.1	443.1	625.4	1014.8	2358.5	5056.8	4839.0	4085.8	3486.3	2112.4
77.5°	276.3	282.8	367.4	443.8	455.6	822.5	2366.2	1925.4	1159.1	930.2	587.0
80°	218.3	230.2	320.7	345.6	307.1	339.0	764.5	611.2	458.6	420.7	304.1
82.5°	172.8	181.1	275.2	261.6	214.8	228.4	366.2	356.8	298.2	271.6	175.7
85°	124.3	139.6	226.1	197.0	140.9	153.9	243.2	233.1	171.0	139.6	77.5
87.5°	50.8	66.3	159.8	130.7	78.7	71.6	121.3	114.2	81.0	59.1	38.5
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°	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5	1784.5
2.5°	1782.8	1797.0	1815.3	1826.6	1832.5	1836.6	1843.2	1842.5	1844.4	1844.9	1847.3
5°	1794.7	1818.3	1844.9	1852.1	1852.1	1845.5	1839.1	1828.3	1824.2	1823.0	1824.2
7.5°	1825.5	1851.4	1874.6	1866.3	1848.5	1822.5	1788.7	1759.2	1743.2	1737.8	1736.7
10°	1864.4	1895.8	1905.2	1873.9	1821.9	1759.2	1692.3	1643.8	1616.0	1608.3	1605.9
12.5°	1911.8	1941.4	1928.4	1862.1	1765.6	1664.4	1572.2	1494.6	1436.6	1418.3	1417.1
15°	1963.9	1987.0	1941.4	1825.5	1681.6	1532.5	1368.0	1234.3	1162.1	1139.1	1137.2
17.5°	2012.3	2024.2	1933.7	1761.5	1558.0	1316.5	1098.2	995.2	970.4	976.3	977.5
20°	2053.8	2053.8	1907.7	1669.8	1363.3	1032.0	894.1	892.3	910.0	927.8	931.3
22.5°	2099.4	2072.2	1862.1	1540.3	1087.6	844.3	824.3	840.8	860.9	880.5	883.4
25°	2155.6	2086.9	1798.8	1343.7	855.0	766.8	774.6	788.2	798.2	810.6	812.4
27.5°	2218.3	2105.8	1715.4	1073.4	742.0	718.3	724.2	729.0	727.8	732.5	733.8
30°	2293.5	2127.7	1601.1	839.0	695.3	676.9	666.2	662.2	662.2	669.8	672.8
32.5°	2394.0	2160.3	1437.2	718.9	672.8	647.3	613.1	597.6	603.5	629.5	635.5
35°	2504.7	2195.3	1215.4	678.1	668.0	633.7	580.4	552.1	552.7	576.9	584.6
37.5°	2625.4	2239.6	972.2	670.4	678.7	634.3	563.3	524.3	508.3	508.3	511.3
40°	2779.9	2285.2	787.0	675.8	701.1	641.4	554.4	502.4	457.4	458.6	460.9
42.5°	2981.0	2324.2	687.5	687.0	728.3	650.9	553.8	473.3	434.3	460.9	485.2
45°	3204.7	2343.8	643.7	697.0	750.2	656.8	544.4	468.6	437.3	516.6	562.7
47.5°	3462.1	2332.5	619.5	700.6	755.7	656.8	533.7	479.9	458.0	598.2	652.0
50°	3744.3	2300.0	595.9	693.5	753.8	655.6	543.8	491.1	465.6	612.4	649.7
52.5°	4076.3	2272.7	571.0	678.1	741.4	649.1	555.6	486.4	441.4	556.8	582.9
55°	4455.0	2280.5	543.2	656.2	721.9	636.7	551.5	467.5	415.9	490.5	506.5
57.5°	4939.0	2372.1	510.0	628.4	695.3	615.9	536.6	458.6	408.3	445.0	454.4
60°	5479.2	2531.9	468.6	600.6	662.2	582.9	525.4	462.7	411.8	441.4	446.1
62.5°	5875.6	2624.8	433.1	559.8	617.1	546.2	511.3	468.0	421.3	453.9	452.7
65°	5983.3	2472.2	388.7	500.0	556.2	507.7	493.5	473.9	425.4	463.9	458.6
66°	5832.5	2307.7	369.2	472.2	525.4	488.8	484.6	473.3	423.7	465.0	456.2
67.5°	5466.1	1970.4	335.5	431.4	476.3	460.3	470.5	468.0	418.9	463.9	451.4
70°	4457.9	1344.4	286.9	359.2	396.4	405.3	443.1	449.1	403.6	443.1	415.9
72.5°	3114.8	818.9	253.8	278.7	320.7	345.6	405.9	423.1	382.8	387.0	360.9
75°	1505.3	434.9	230.2	215.9	249.1	288.8	360.9	387.6	350.3	323.7	314.1
77.5°	469.2	265.7	195.3	174.0	195.3	233.1	301.8	339.6	311.8	271.0	267.5
80°	252.1	195.3	150.3	139.6	154.5	182.8	237.3	283.5	268.0	243.2	217.2
82.5°	166.2	126.6	111.2	108.3	117.7	139.6	176.4	234.9	234.9	208.3	151.5
85°	85.8	77.5	76.3	76.3	82.2	92.9	120.1	181.1	192.9	110.1	91.1
87.5°	42.6	44.4	41.4	43.2	46.1	45.5	57.4	91.1	108.8	66.9	55.6
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)