

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: P194093

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T4W-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15883 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

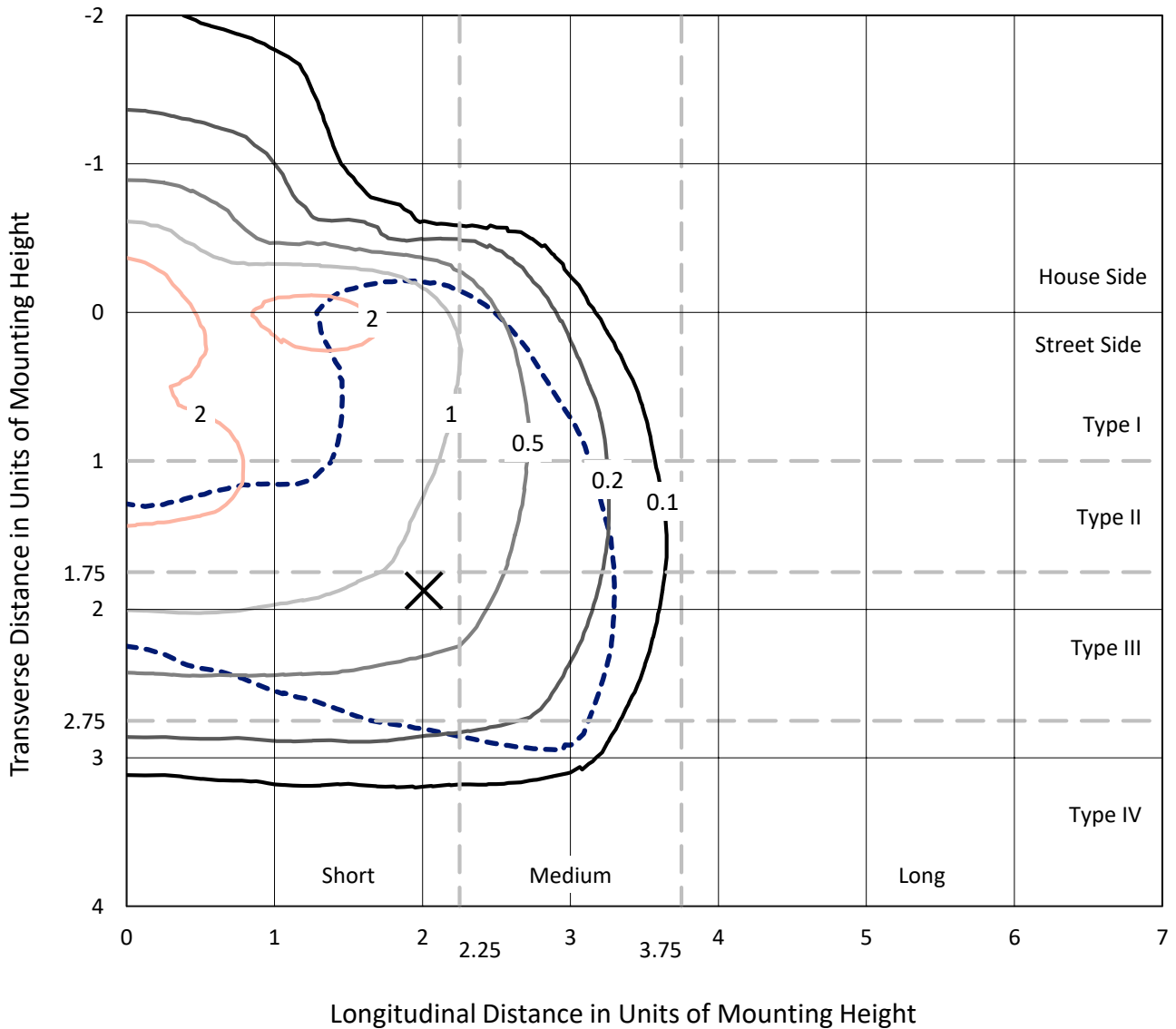


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

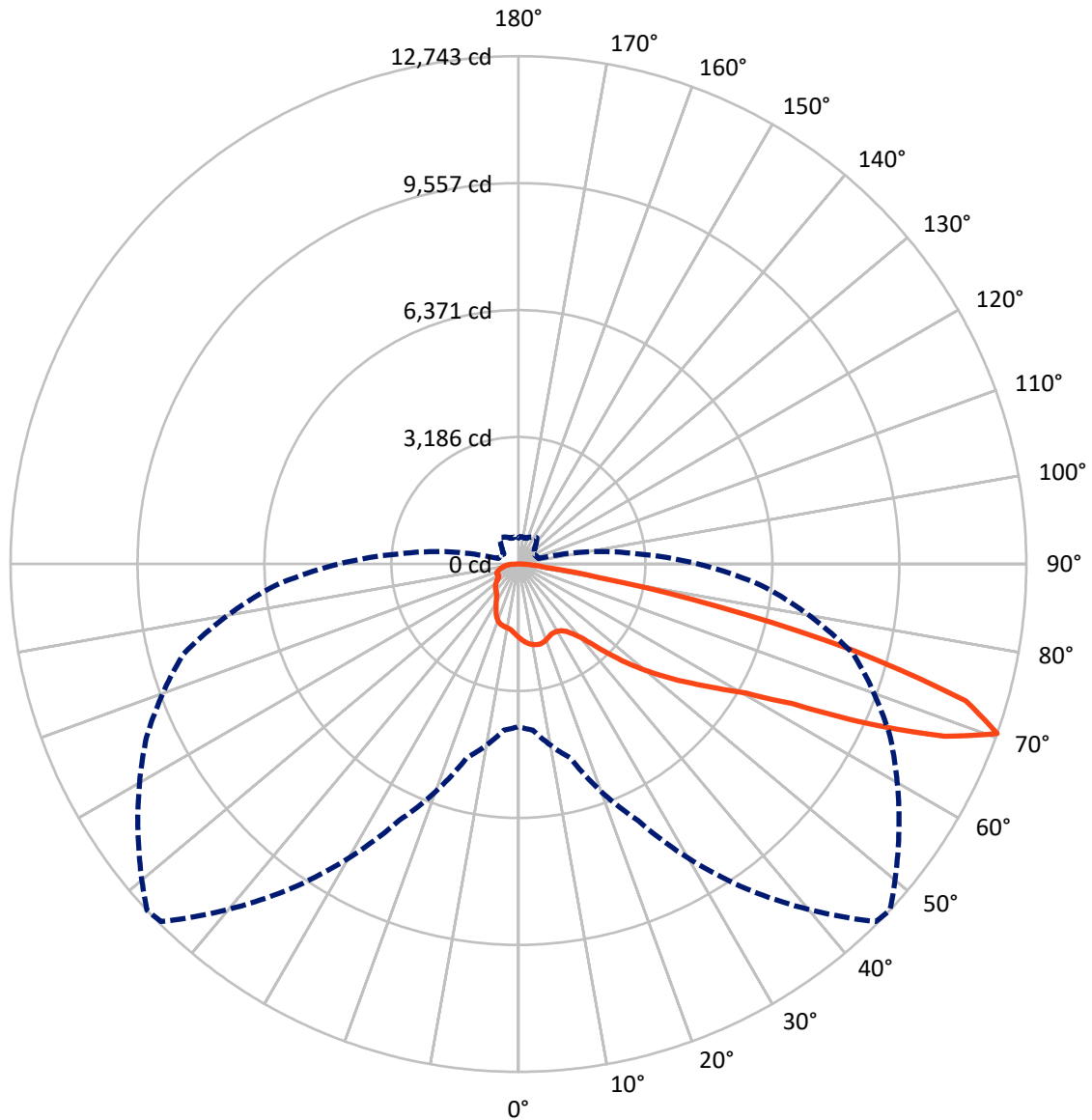


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3313.5	0.0	3313.5
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	12569.5	0.0	12569.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	15883.0	0.0	15883.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	1.1
10°-20°	518.0	3.3
20°-30°	765.0	4.8
30°-40°	1111.9	7.0
40°-50°	2001.1	12.6
50°-60°	3466.7	21.8
60°-70°	4948.0	31.2
70°-80°	2540.0	16.0
80°-90°	355.6	2.2
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°	15883.0	100.0
0°-180°	15883.0	100.0



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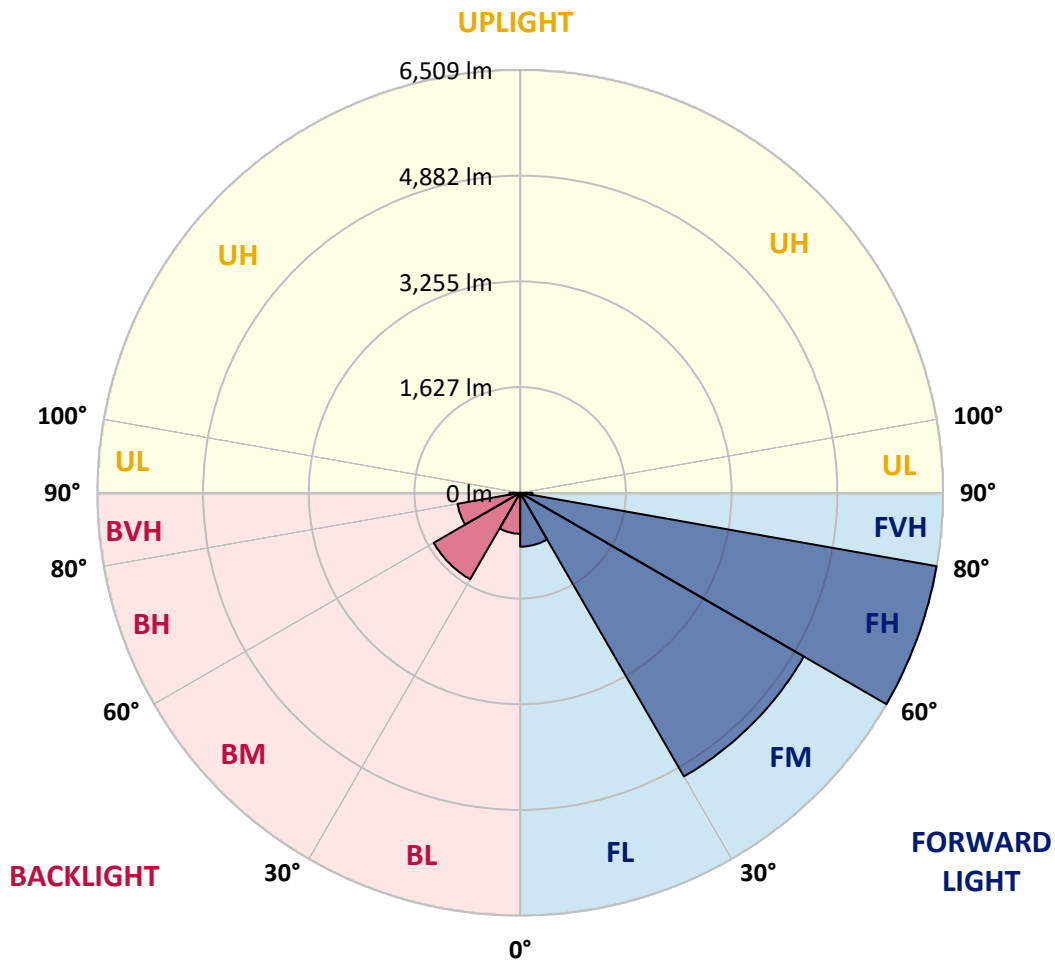
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.7	5.2			
FM	(30°-60°)	5041.7	31.7			
FH	(60°-80°)	6509.3	41.0			G3/7500
FVH	(80°-90°)	189.8	1.2			G2/225
BL	(0°-30°)	630.9	4.0	B2/1000		
BM	(30°-60°)	1538.0	9.7	B2/2500		
BH	(60°-80°)	978.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	165.9	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1951.1	1947.2	1945.7	1942.6	1938.7	1919.4	1915.6	1901.6	1882.3	1862.2	1841.4
5°	2079.4	2078.6	2070.1	2054.6	2029.9	1987.4	1977.4	1943.4	1897.8	1853.7	1809.7
7.5°	2192.2	2185.2	2169.0	2138.1	2094.8	2036.9	2023.0	1975.8	1913.2	1853.0	1793.5
10°	2274.9	2271.0	2235.5	2193.0	2136.6	2072.4	2056.2	2003.6	1934.9	1858.4	1784.2
12.5°	2322.0	2314.3	2273.3	2222.3	2155.1	2092.5	2076.3	2023.0	1945.7	1858.4	1771.1
15°	2318.9	2313.5	2272.6	2216.9	2148.9	2094.1	2079.4	2026.1	1943.4	1850.6	1754.1
17.5°	2257.1	2259.4	2224.6	2169.8	2114.1	2072.4	2059.3	2009.8	1927.9	1835.2	1734.0
20°	2148.9	2159.7	2136.6	2087.9	2057.0	2028.4	2019.9	1978.1	1904.0	1812.8	1712.3
22.5°	2040.7	2050.8	2041.5	2000.6	1995.9	1978.9	1974.3	1944.1	1883.1	1798.9	1699.2
25°	1961.1	1970.4	1968.9	1933.3	1947.2	1946.5	1942.6	1927.9	1878.5	1798.9	1701.5
27.5°	1939.5	1942.6	1939.5	1907.1	1926.4	1941.8	1938.7	1936.4	1892.4	1821.3	1730.9
30°	2013.7	2009.1	1985.1	1919.4	1937.2	1958.8	1955.7	1957.3	1934.1	1880.0	1796.6
32.5°	2309.6	2288.8	2213.1	2028.4	1981.2	1992.8	1994.4	2019.9	2023.7	1970.4	1898.6
35°	2752.4	2729.2	2631.1	2320.5	2118.0	2077.8	2077.8	2116.5	2139.6	2100.2	2057.0
37.5°	3221.4	3195.9	3143.4	2725.4	2405.5	2225.4	2221.6	2248.6	2281.8	2291.1	2301.9
40°	3754.6	3727.6	3742.3	3179.7	2806.5	2481.2	2426.3	2407.0	2496.6	2556.1	2642.7
42.5°	4338.0	4325.7	4331.1	3685.8	3263.2	2863.7	2785.6	2686.0	2794.1	2900.0	3081.6
45°	4878.1	4889.0	4883.6	4227.5	3771.6	3330.4	3247.7	3054.5	3160.4	3342.0	3637.9
47.5°	5351.0	5306.2	5375.8	4819.4	4341.1	3852.8	3750.8	3491.9	3599.3	3823.4	4324.1
50°	5925.2	5919.0	5817.0	5609.1	5029.6	4377.4	4243.7	3943.9	4110.8	4422.2	5188.8
52.5°	6528.7	6416.6	6323.1	6223.4	5759.8	4915.2	4751.4	4394.4	4712.0	5103.8	6242.8
55°	6652.3	6602.1	6718.0	6885.7	6463.8	5473.9	5283.0	4959.3	5388.9	5882.7	7458.2
57.5°	6916.6	6915.8	7155.3	7454.4	7188.6	6066.6	5874.2	5641.6	6150.0	6775.2	8748.7
60°	7095.1	7145.3	7590.4	8170.7	7900.2	6751.2	6574.2	6429.0	7015.5	7772.7	9951.0
62.5°	7188.6	7256.6	7863.9	8461.2	8906.3	7891.0	7714.0	7504.6	8160.6	8866.9	10654.2
65°	6799.9	6933.6	7821.4	8712.3	9787.2	9738.5	9658.9	9291.1	9592.5	9731.6	10400.0
67.5°	5724.3	5861.0	6894.9	8478.2	10416.2	11520.4	11537.4	10909.2	10473.4	9805.7	8744.0
70°	4078.4	4185.8	5041.2	7108.2	9937.1	12684.9	12742.8	11654.8	10298.0	8696.1	6109.1
72.5°	1936.4	2002.1	2811.9	4626.2	7885.5	11622.4	11734.4	10702.9	8756.4	6438.3	3332.7
75°	711.7	731.8	950.4	1968.1	4573.7	8570.9	8703.1	7672.3	5804.6	3205.2	1269.6
77.5°	426.5	439.7	533.2	830.7	1798.9	4899.0	5094.5	4172.7	2536.8	1193.1	624.4
80°	298.3	307.5	382.5	516.9	850.0	1866.9	2040.7	1703.1	1010.7	754.9	454.4
82.5°	201.7	206.3	268.9	349.3	564.9	666.9	719.4	757.3	681.5	561.8	288.2
85°	132.1	136.8	182.4	230.3	359.3	344.6	352.4	445.9	497.6	381.7	160.0
87.5°	75.7	78.8	109.7	122.9	176.2	146.0	147.6	234.9	318.4	257.3	97.4
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°	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1836.0	1825.9	1803.5	1789.6	1776.5	1773.4	1768.0	1767.2	1766.4	1766.4	1764.1
5°	1795.0	1778.0	1743.2	1723.9	1707.7	1706.2	1705.4	1709.2	1710.8	1712.3	1710.0
7.5°	1768.7	1745.6	1702.3	1674.5	1655.2	1650.5	1658.2	1676.0	1687.6	1692.2	1689.9
10°	1752.5	1723.9	1673.7	1643.6	1627.3	1625.0	1635.1	1655.9	1679.9	1689.2	1688.4
12.5°	1734.0	1701.5	1648.2	1616.5	1607.2	1611.9	1625.0	1644.3	1669.1	1683.7	1684.5
15°	1715.4	1677.6	1622.7	1594.9	1591.0	1597.2	1609.6	1624.2	1643.6	1658.2	1659.8
17.5°	1693.0	1653.6	1598.7	1570.2	1567.1	1570.2	1570.9	1578.7	1591.0	1604.9	1608.8
20°	1669.1	1628.9	1571.7	1543.1	1529.2	1516.8	1502.9	1504.5	1508.3	1522.2	1525.3
22.5°	1652.1	1611.9	1550.8	1511.4	1474.3	1437.2	1409.4	1405.6	1407.1	1418.7	1422.6
25°	1653.6	1611.1	1545.4	1477.4	1396.3	1336.8	1299.7	1293.5	1292.8	1301.3	1306.7
27.5°	1683.7	1641.2	1565.5	1442.7	1311.3	1223.2	1183.8	1179.2	1173.0	1175.3	1181.5
30°	1751.0	1711.6	1614.2	1407.1	1219.3	1111.9	1071.0	1066.3	1057.8	1054.0	1058.6
32.5°	1860.7	1828.2	1685.3	1373.1	1127.4	1016.9	975.2	965.1	959.7	955.1	958.9
35°	2043.1	2029.1	1780.3	1336.0	1046.3	943.5	905.6	890.2	882.4	890.9	897.1
37.5°	2329.0	2336.7	1904.7	1278.1	983.7	894.8	863.1	845.3	833.8	840.7	847.7
40°	2733.9	2739.3	2042.3	1196.2	929.6	866.2	832.2	816.0	799.8	787.4	786.6
42.5°	3265.5	3210.6	2177.5	1107.3	867.0	848.4	810.6	790.5	765.8	731.8	724.8
45°	3896.0	3703.6	2280.3	1005.3	796.7	826.8	786.6	758.8	720.2	683.1	679.2
47.5°	4622.4	4232.9	2330.5	899.4	731.0	795.1	757.3	713.2	664.5	646.0	643.7
50°	5509.4	4861.1	2354.5	796.7	673.8	753.4	714.8	663.0	622.0	618.2	615.9
52.5°	6519.4	5616.9	2362.2	712.4	626.7	699.3	680.0	629.8	597.3	600.4	600.4
55°	7576.5	6397.3	2257.1	651.4	583.4	643.7	656.8	616.6	589.6	601.9	606.6
57.5°	8547.0	7088.9	1926.4	604.3	542.4	601.2	648.3	629.0	610.4	660.7	663.8
60°	9291.9	7497.6	1438.8	561.8	512.3	586.5	670.7	676.1	680.8	800.5	816.8
62.5°	9448.0	7361.6	989.1	528.5	498.4	598.9	711.7	712.4	707.0	790.5	800.5
65°	8731.7	6501.6	719.4	510.0	486.8	621.3	746.4	730.2	694.7	758.0	739.5
67.5°	6934.3	4898.2	598.9	496.1	469.8	619.7	783.5	746.4	687.7	742.6	712.4
70°	4501.1	2961.8	533.2	484.5	449.7	590.4	805.2	744.9	667.6	690.8	655.3
72.5°	2196.1	1324.4	489.1	467.5	428.9	549.4	804.4	731.0	646.8	645.2	625.9
75°	859.3	606.6	448.9	442.0	393.3	503.0	782.8	710.9	622.0	597.3	590.4
77.5°	503.0	432.7	397.9	404.1	350.8	456.7	751.1	676.1	588.0	558.7	550.9
80°	366.3	323.8	339.2	349.3	299.8	410.3	708.6	633.6	550.2	564.9	554.0
82.5°	234.9	208.6	275.1	285.1	249.6	363.2	662.2	588.8	496.9	451.3	440.4
85°	119.8	132.1	204.8	217.1	192.4	298.3	605.8	529.3	436.6	375.5	381.7
87.5°	67.2	90.4	130.6	146.0	136.0	229.5	491.4	436.6	356.2	289.8	255.0
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)