

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: P269200

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269200
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-03-LED-E1-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17198.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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

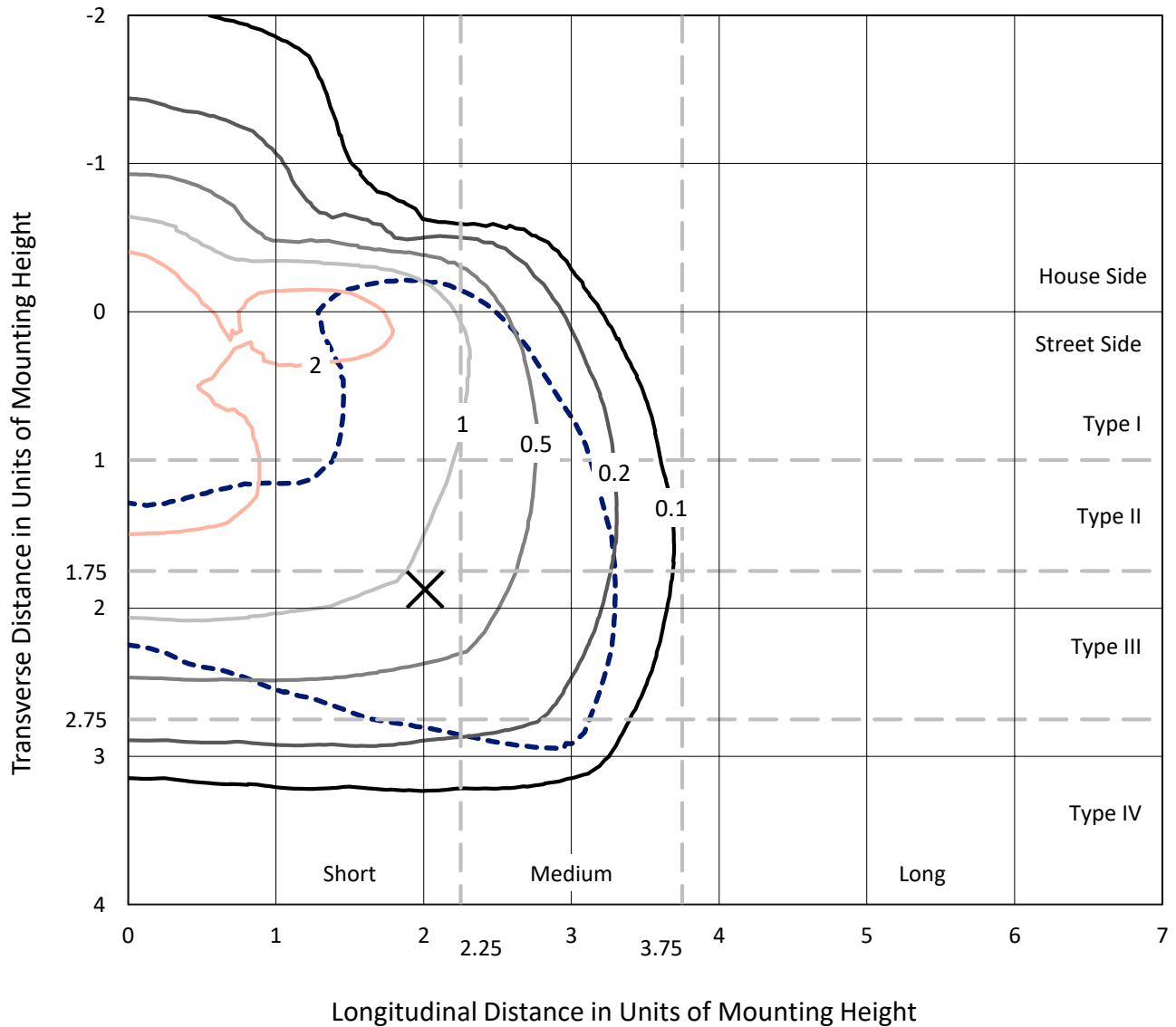


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

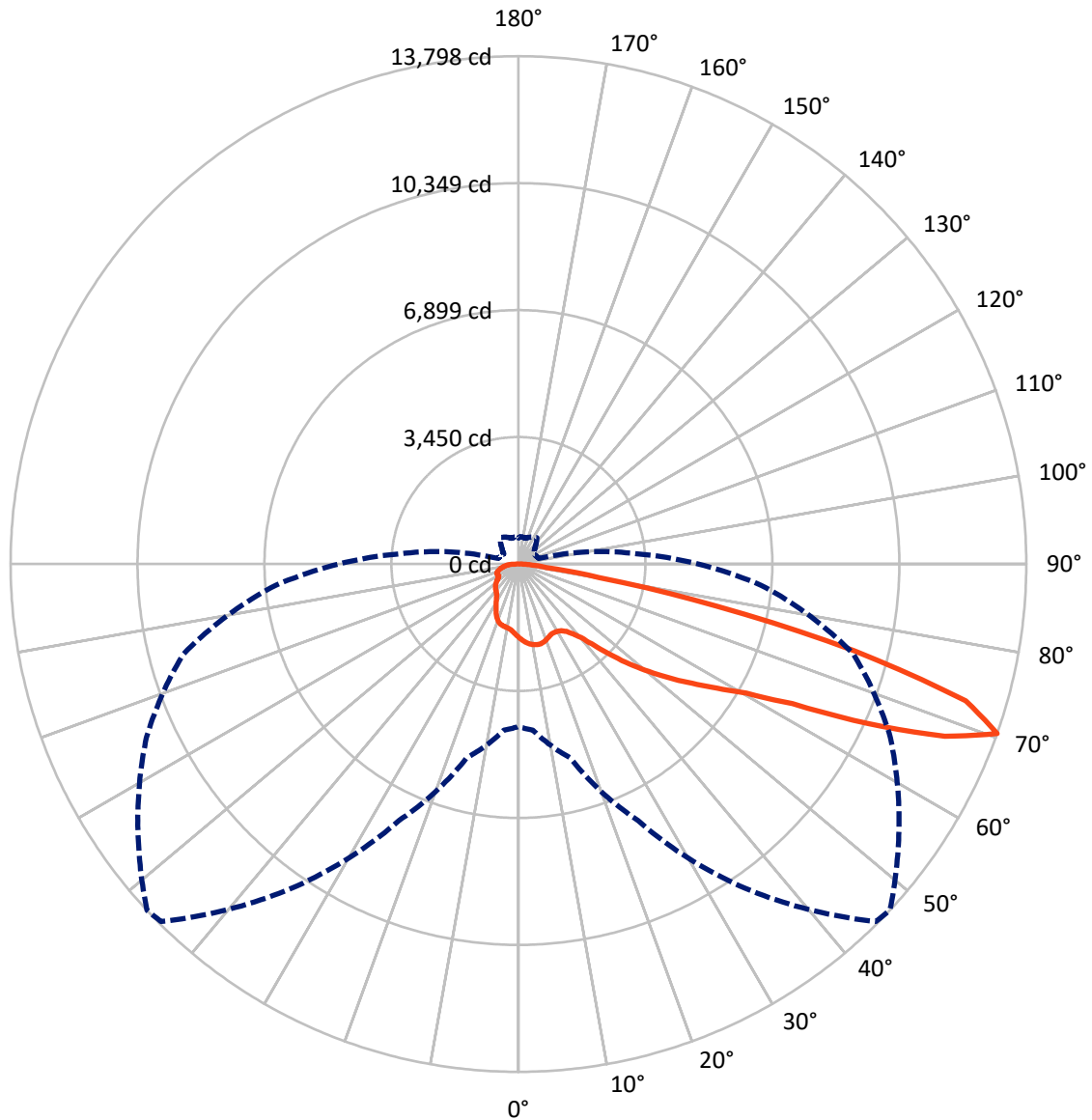


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	3587.9	0.0	3587.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13610.6	0.0	13610.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	17198.5	0.0	17198.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.1
10°-20°	561.0	3.3
20°-30°	828.4	4.8
30°-40°	1204.0	7.0
40°-50°	2166.8	12.6
50°-60°	3753.8	21.8
60°-70°	5357.8	31.2
70°-80°	2750.4	16.0
80°-90°	385.1	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°	17198.5	100.0
0°-180°	17198.5	100.0

Coefficient of Utilization



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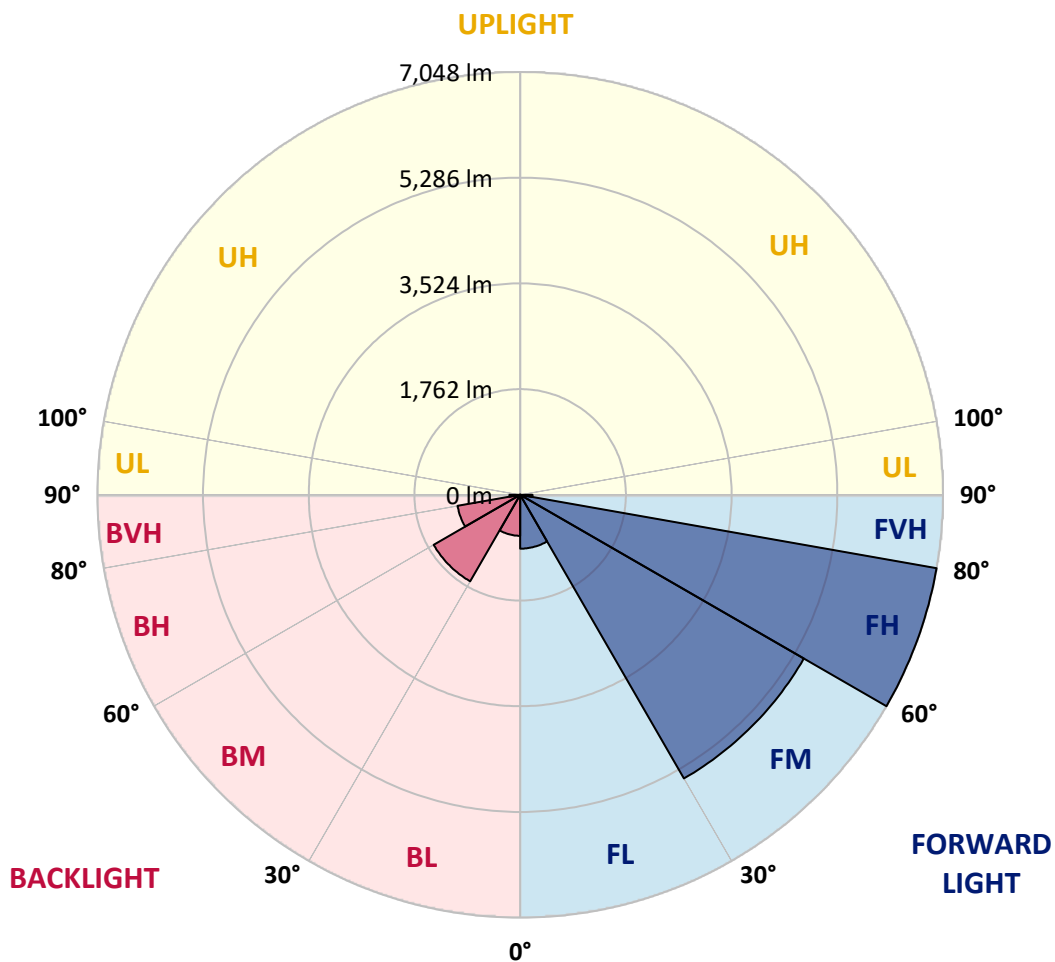
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.4	5.2			
FM	(30°-60°)	5459.3	31.7			
FH	(60°-80°)	7048.4	41.0			G3/7500
FVH	(80°-90°)	205.5	1.2			G2/225
BL	(0°-30°)	683.2	4.0	B2/1000		
BM	(30°-60°)	1665.4	9.7	B2/2500		
BH	(60°-80°)	1059.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	179.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	2112.8	2108.5	2106.9	2103.6	2099.2	2078.4	2074.1	2059.2	2038.3	2016.4	1993.9
5°	2251.6	2250.8	2241.5	2224.8	2198.1	2152.0	2141.1	2104.3	2055.0	2007.3	1959.7
7.5°	2373.7	2366.2	2348.7	2315.2	2268.3	2205.6	2190.4	2139.5	2071.8	2006.5	1942.0
10°	2463.3	2459.1	2420.7	2374.6	2313.6	2244.1	2226.4	2169.5	2095.1	2012.4	1932.0
12.5°	2514.4	2505.9	2461.6	2406.4	2333.5	2265.9	2248.3	2190.4	2106.9	2012.4	1917.7
15°	2511.0	2505.2	2460.7	2400.5	2326.9	2267.5	2251.6	2193.9	2104.3	2003.8	1899.3
17.5°	2444.1	2446.5	2408.8	2349.4	2289.2	2244.1	2229.9	2176.4	2087.7	1987.2	1877.5
20°	2326.9	2338.6	2313.6	2260.9	2227.3	2196.4	2187.2	2142.0	2061.7	1962.9	1854.1
22.5°	2209.8	2220.6	2210.5	2166.3	2161.2	2142.8	2137.7	2105.2	2039.1	1947.9	1839.9
25°	2123.6	2133.7	2131.9	2093.5	2108.5	2107.7	2103.6	2087.7	2034.0	1947.9	1842.5
27.5°	2100.1	2103.6	2100.1	2065.1	2086.0	2102.7	2099.2	2096.9	2049.2	1972.0	1874.3
30°	2180.5	2175.4	2149.6	2078.4	2097.6	2121.1	2117.8	2119.5	2094.3	2035.6	1945.4
32.5°	2500.9	2478.3	2396.4	2196.4	2145.3	2157.9	2159.5	2187.2	2191.3	2133.7	2055.9
35°	2980.3	2955.2	2849.1	2512.6	2293.5	2250.0	2250.0	2291.8	2316.9	2274.1	2227.3
37.5°	3488.3	3460.6	3403.8	2951.1	2604.6	2409.8	2405.5	2434.9	2470.8	2480.8	2492.5
40°	4065.5	4036.4	4052.3	3443.1	3039.0	2686.7	2627.4	2606.3	2703.4	2767.9	2861.6
42.5°	4697.2	4683.9	4689.8	3991.1	3533.5	3100.9	3016.4	2908.4	3025.5	3140.1	3336.8
45°	5282.2	5293.9	5288.1	4577.7	4084.1	3606.2	3516.8	3307.5	3422.2	3618.8	3939.2
47.5°	5794.2	5745.6	5820.9	5218.6	4700.7	4171.9	4061.3	3781.1	3897.3	4140.1	4682.2
50°	6416.0	6409.2	6298.7	6073.7	5446.2	4739.9	4595.2	4270.6	4451.3	4788.5	5618.4
52.5°	7069.4	6948.1	6846.8	6738.8	6236.8	5322.4	5145.0	4758.4	5102.3	5526.6	6759.8
55°	7203.2	7148.9	7274.4	7455.9	6999.1	5927.2	5720.5	5370.0	5835.2	6369.9	8075.9
57.5°	7489.3	7488.6	7748.1	8071.8	7784.0	6569.0	6360.7	6108.8	6659.5	7336.3	9473.3
60°	7682.8	7737.1	8219.0	8847.3	8554.6	7310.3	7118.8	6961.4	7596.5	8416.5	10775.2
62.5°	7784.0	7857.6	8515.3	9162.1	9643.9	8544.5	8352.9	8126.2	8836.5	9601.3	11536.7
65°	7363.0	7507.9	8469.2	9433.9	10597.8	10545.2	10459.0	10060.7	10386.9	10537.6	11261.3
67.5°	6198.3	6346.4	7466.1	9180.4	11278.8	12474.6	12493.0	11812.7	11340.8	10617.8	9468.2
70°	4416.2	4532.5	5458.7	7696.9	10760.2	13735.4	13798.2	12620.2	11150.9	9416.4	6615.1
72.5°	2096.9	2167.9	3044.7	5009.4	8538.7	12585.1	12706.3	11589.4	9481.6	6971.4	3608.8
75°	770.7	792.3	1029.2	2131.0	4952.4	9280.7	9423.8	8307.7	6285.4	3470.7	1374.8
77.5°	461.9	476.1	577.3	899.5	1947.9	5304.9	5516.4	4518.3	2746.9	1291.9	676.1
80°	323.0	333.0	414.2	559.7	920.5	2021.5	2209.8	1844.1	1094.5	817.5	492.0
82.5°	218.4	223.4	291.2	378.1	611.7	722.1	779.0	820.1	738.0	608.3	312.2
85°	143.1	148.1	197.4	249.3	389.1	373.2	381.5	482.7	538.9	413.3	173.3
87.5°	81.9	85.3	118.8	132.9	190.8	158.1	159.8	254.4	344.7	278.7	105.5
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°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	1987.9	1977.2	1952.8	1937.9	1923.6	1920.2	1914.4	1913.6	1912.8	1912.8	1910.2
5°	1943.8	1925.2	1887.6	1866.7	1849.2	1847.5	1846.6	1850.8	1852.5	1854.1	1851.6
7.5°	1915.2	1890.2	1843.3	1813.1	1792.3	1787.2	1795.6	1814.8	1827.4	1832.5	1829.8
10°	1897.7	1866.7	1812.3	1779.7	1762.1	1759.6	1770.5	1793.0	1819.0	1829.0	1828.2
12.5°	1877.5	1842.5	1784.8	1750.3	1740.3	1745.3	1759.6	1780.5	1807.3	1823.2	1824.1
15°	1857.5	1816.6	1757.2	1727.0	1722.8	1729.4	1742.9	1758.8	1779.7	1795.6	1797.2
17.5°	1833.3	1790.6	1731.2	1700.2	1696.9	1700.2	1701.0	1709.5	1722.8	1737.9	1742.1
20°	1807.3	1763.8	1701.8	1670.8	1655.8	1642.6	1627.4	1629.0	1633.3	1648.3	1651.7
22.5°	1788.9	1745.3	1679.3	1636.6	1596.5	1556.4	1526.2	1522.0	1523.6	1536.2	1540.5
25°	1790.6	1744.6	1673.5	1599.8	1511.9	1447.4	1407.4	1400.6	1399.7	1409.0	1414.9
27.5°	1823.2	1777.1	1695.2	1562.2	1420.0	1324.6	1281.8	1276.9	1270.2	1272.7	1279.4
30°	1896.1	1853.4	1747.9	1523.6	1320.2	1204.0	1159.7	1154.7	1145.5	1141.2	1146.2
32.5°	2014.8	1979.7	1824.8	1486.9	1220.7	1101.1	1056.0	1045.1	1039.2	1034.2	1038.4
35°	2212.3	2197.3	1927.9	1446.7	1132.9	1021.6	980.6	963.9	955.5	964.7	971.4
37.5°	2521.8	2530.3	2062.5	1383.8	1065.1	968.9	934.5	915.4	902.7	910.3	917.9
40°	2960.3	2966.2	2211.4	1295.3	1006.6	938.0	901.1	883.6	866.0	852.6	851.8
42.5°	3536.0	3476.5	2357.8	1199.0	938.8	918.6	877.7	855.9	829.1	792.3	784.8
45°	4218.7	4010.4	2469.1	1088.6	862.6	895.3	851.8	821.7	779.8	739.7	735.4
47.5°	5005.3	4583.5	2523.5	973.9	791.5	860.9	820.1	772.4	719.6	699.5	696.9
50°	5965.7	5263.8	2549.5	862.6	729.7	815.8	774.0	717.8	673.5	669.3	666.8
52.5°	7059.3	6082.1	2557.8	771.5	678.6	757.2	736.3	682.0	646.8	650.2	650.2
55°	8204.0	6927.2	2444.1	705.3	631.7	696.9	711.2	667.7	638.4	651.8	656.8
57.5°	9254.9	7675.9	2086.0	654.3	587.4	650.9	701.9	681.0	661.1	715.4	718.7
60°	10061.5	8118.6	1558.0	608.3	554.8	635.0	726.3	732.1	737.1	866.9	884.4
62.5°	10230.4	7971.4	1071.0	572.3	539.7	648.4	770.7	771.5	765.5	855.9	866.9
65°	9454.9	7040.0	779.0	552.3	527.1	672.7	808.2	790.7	752.2	820.8	800.7
67.5°	7508.7	5304.0	648.4	537.1	508.7	671.0	848.4	808.2	744.7	804.2	771.5
70°	4873.8	3207.0	577.3	524.6	487.1	639.2	871.9	806.6	723.0	748.0	709.5
72.5°	2378.0	1434.1	529.6	506.3	464.3	594.9	871.0	791.5	700.3	698.6	677.7
75°	930.5	656.8	486.2	478.5	425.8	544.7	847.6	769.8	673.5	646.8	639.2
77.5°	544.7	468.6	430.8	437.7	379.9	494.4	813.2	732.1	636.8	605.0	596.6
80°	396.6	350.6	367.2	378.1	324.6	444.3	767.2	686.1	595.8	611.7	599.9
82.5°	254.4	226.0	297.9	308.7	270.3	393.3	717.0	637.5	538.1	488.7	476.9
85°	129.6	143.1	221.7	235.1	208.3	323.0	656.0	573.2	472.8	406.7	413.3
87.5°	72.9	97.8	141.5	158.1	147.2	248.6	532.2	472.8	385.7	313.8	276.0
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)