

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: P200370

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T4FT-7050-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13709 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

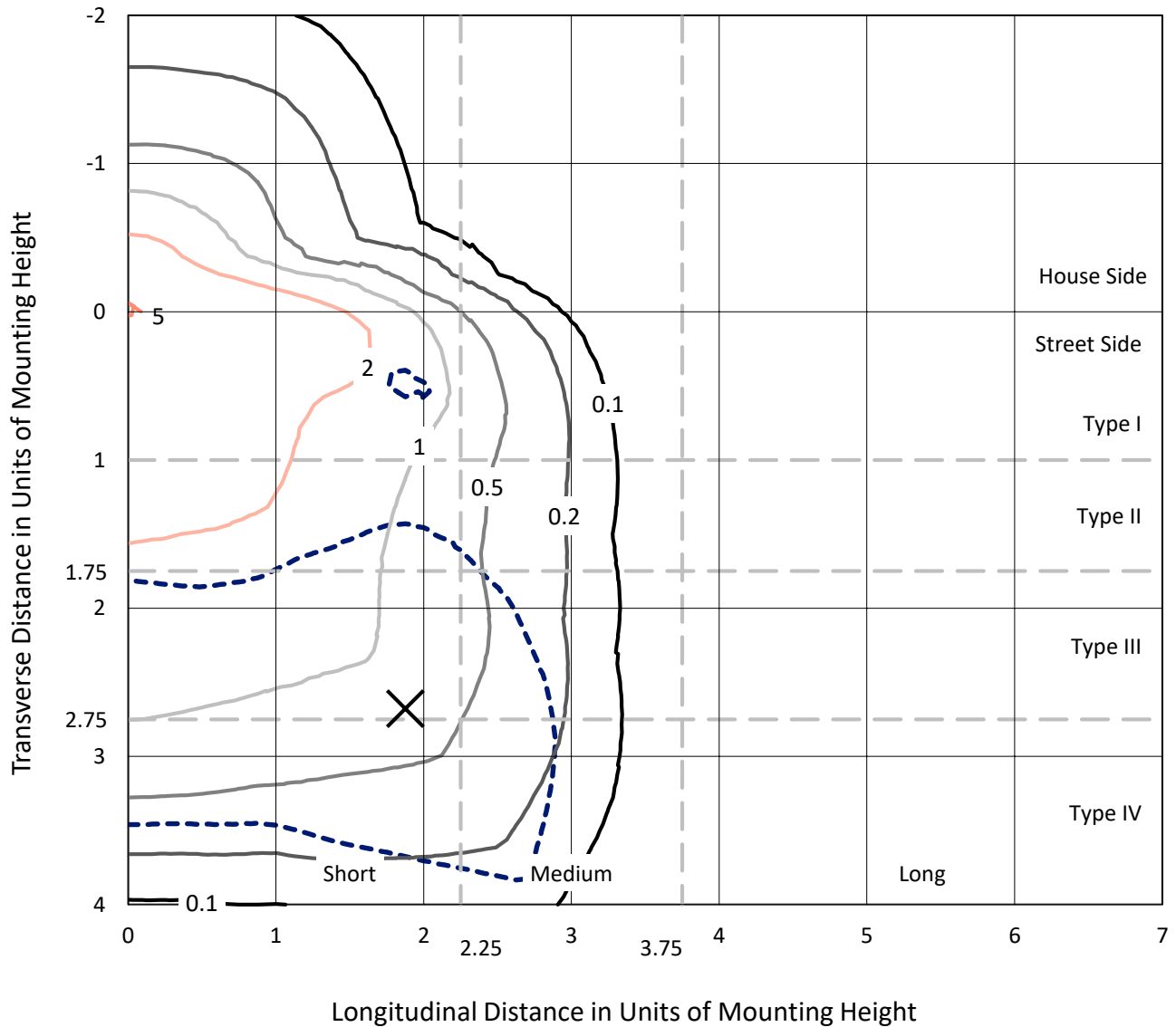


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

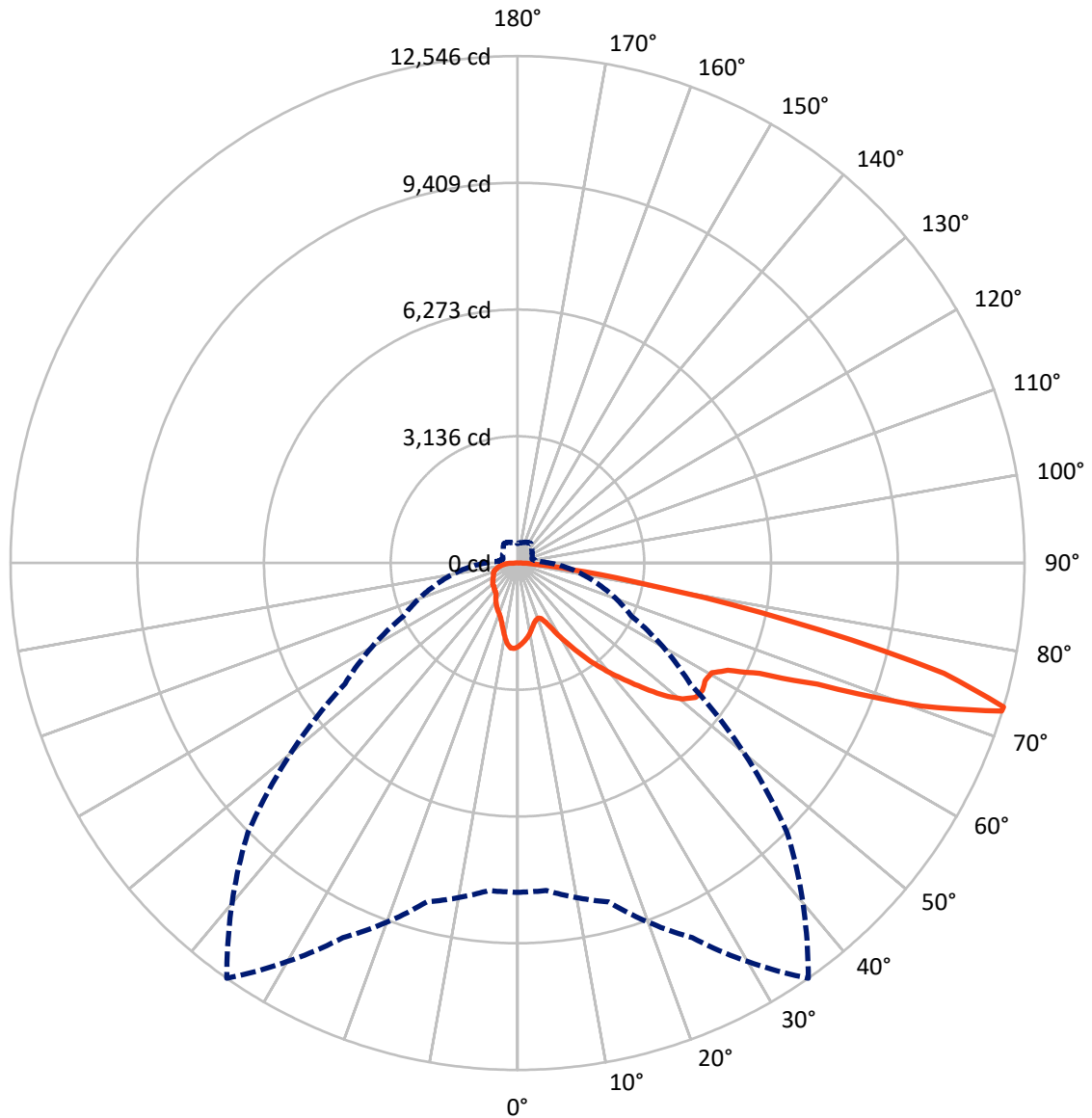


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.7	0.0	2614.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11094.3	0.0	11094.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	13709.0	0.0	13709.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.4
10°-20°	467.5	3.4
20°-30°	755.8	5.5
30°-40°	1267.4	9.2
40°-50°	1953.6	14.3
50°-60°	2620.9	19.1
60°-70°	3491.6	25.5
70°-80°	2663.0	19.4
80°-90°	301.8	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°	13709.0	100.0
0°-180°	13709.0	100.0



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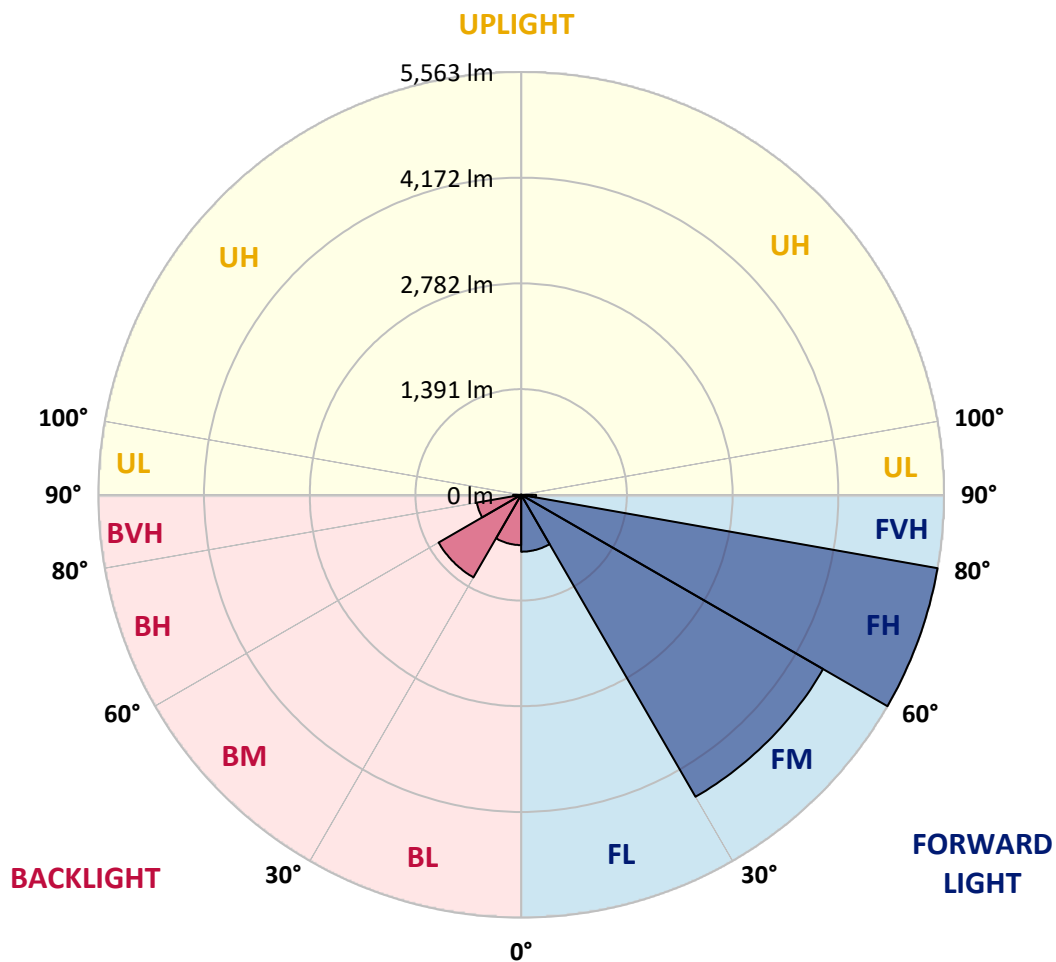
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.0	5.5			
FM (30°-60°)	4587.1	33.5			
FH (60°-80°)	5563.1	40.6			G3/7500
FVH (80°-90°)	195.1	1.4			G2/225
BL (0°-30°)	661.6	4.8	B2/1000		
BM (30°-60°)	1254.8	9.2	B2/2500		
BH (60°-80°)	591.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	106.7	0.8			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°	55°	65°	75°	85°	90°
0°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2.5°	1987.5	1991.4	1986.8	1992.7	2002.6	2013.2	2020.4	2030.9	2042.8	2059.2	2063.2
5°	1894.0	1899.9	1899.9	1910.5	1929.5	1946.7	1962.5	1979.6	2004.6	2032.9	2044.1
7.5°	1791.3	1794.6	1800.5	1816.3	1844.0	1868.3	1890.7	1918.4	1952.6	1990.1	2009.9
10°	1667.5	1672.1	1681.4	1703.7	1741.3	1774.8	1807.1	1845.3	1888.7	1935.5	1960.5
12.5°	1580.0	1578.7	1582.6	1599.1	1632.0	1672.8	1719.5	1768.3	1821.6	1876.2	1906.5
15°	1550.4	1543.1	1528.0	1524.0	1541.8	1582.6	1636.6	1696.5	1760.4	1826.2	1863.7
17.5°	1568.8	1556.3	1514.8	1484.5	1481.9	1512.8	1570.1	1637.3	1711.0	1791.3	1838.0
20°	1684.7	1655.0	1553.0	1482.5	1458.2	1473.3	1523.4	1594.5	1681.4	1788.0	1847.9
22.5°	1961.8	1918.4	1701.8	1570.8	1488.5	1470.0	1507.6	1583.3	1684.7	1828.8	1905.2
25°	2365.4	2303.5	1957.2	1790.6	1620.8	1522.7	1531.3	1608.9	1731.4	1923.6	2015.8
27.5°	2684.0	2643.8	2291.0	2100.7	1861.7	1664.9	1608.3	1673.5	1826.9	2079.0	2173.1
30°	2873.6	2849.2	2647.8	2452.3	2169.2	1891.4	1755.8	1794.6	1976.3	2294.3	2371.9
32.5°	3093.5	3079.0	2980.2	2800.5	2501.0	2188.9	1989.5	1975.6	2176.4	2553.0	2588.5
35°	3321.2	3316.6	3258.7	3129.7	2857.1	2581.3	2299.5	2206.0	2394.3	2821.6	2799.2
37.5°	3533.2	3525.3	3491.8	3416.7	3229.7	3002.6	2615.5	2442.4	2629.3	3078.3	2978.9
40°	3923.6	3861.7	3746.5	3689.9	3606.3	3357.5	2866.3	2662.9	2872.9	3323.2	3134.3
42.5°	4399.6	4298.9	4084.2	4006.6	3994.7	3637.2	3037.5	2876.9	3118.5	3566.1	3287.0
45°	4774.2	4679.4	4494.4	4396.3	4439.7	3890.7	3209.3	3105.3	3371.3	3820.9	3444.4
47.5°	5173.8	5025.0	4780.1	4809.7	4904.5	4130.3	3384.4	3350.9	3648.4	4106.0	3639.9
50°	5188.3	5074.4	4967.1	5144.1	5291.6	4350.9	3603.7	3608.3	3987.5	4464.8	3899.9
52.5°	4887.4	4863.0	5033.5	5312.0	5524.7	4525.3	3853.2	3874.2	4421.3	4876.9	4185.6
55°	4782.1	4754.4	4951.3	5253.4	5556.3	4669.5	4123.7	4161.9	4946.0	5311.4	4464.1
57.5°	5038.8	4977.6	4990.8	5225.8	5479.2	4827.5	4418.7	4495.7	5516.1	5691.2	4643.2
60°	5756.4	5625.4	5376.5	5370.6	5520.7	5064.5	4759.7	4853.8	6108.6	5872.9	4573.4
62.5°	6763.0	6632.0	6165.9	5862.4	5840.0	5455.5	5178.4	5203.4	6450.9	5626.7	4147.4
65°	7852.5	7735.3	7214.6	6786.0	6579.3	6103.3	5664.9	5359.4	6339.0	4949.3	3402.2
67.5°	9175.1	9049.3	8601.7	8206.0	8007.2	7148.7	6006.6	5210.0	5628.7	3834.1	2445.7
70°	10100.0	9971.6	9795.2	10115.8	10602.3	8657.0	6050.7	4602.3	4204.1	2548.4	1472.0
72.5°	8893.3	8833.4	9155.3	10505.5	12531.9	9572.0	5469.4	3350.9	2441.7	1352.9	851.9
73°	8148.1	8134.9	8684.0	10232.3	12545.7	9431.2	5214.6	3114.5	2094.1	1196.8	778.8
75°	3679.4	3785.4	4988.8	7815.6	10899.9	7771.5	3670.2	1786.7	1183.0	826.9	587.9
77.5°	884.1	921.0	1560.9	3711.6	6883.4	4631.3	1662.9	883.5	756.4	583.9	429.2
80°	376.6	389.1	601.1	1371.3	3240.9	1865.0	766.3	591.8	523.4	407.5	300.9
82.5°	209.3	222.5	341.0	622.1	1308.1	635.9	467.4	412.1	344.3	245.6	195.5
85°	118.5	125.7	199.5	347.6	554.3	255.4	279.8	273.9	194.2	126.4	96.1
87.5°	56.0	60.6	96.1	161.3	217.2	100.1	142.2	156.7	121.8	77.0	50.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2.5°	2067.8	2079.6	2093.5	2100.7	2107.3	2115.2	2123.1	2123.1	2124.4	2125.1
5°	2053.3	2077.7	2099.4	2108.6	2110.6	2110.6	2108.6	2098.1	2088.9	2092.8
7.5°	2023.0	2058.6	2077.0	2073.7	2048.7	2019.7	1995.4	1965.8	1950.6	1948.0
10°	1979.6	2020.4	2023.7	1990.8	1928.9	1867.0	1815.7	1765.6	1741.9	1736.0
12.5°	1931.5	1969.0	1948.0	1880.2	1780.8	1690.6	1625.4	1574.7	1552.3	1546.4
15°	1892.7	1918.4	1865.0	1758.4	1633.3	1537.8	1483.9	1446.3	1430.5	1425.9
17.5°	1872.3	1877.5	1780.1	1635.9	1503.0	1423.3	1389.7	1371.9	1366.0	1362.7
20°	1882.1	1845.3	1699.1	1522.0	1396.3	1340.3	1332.4	1327.8	1326.5	1324.5
22.5°	1931.5	1835.4	1624.7	1414.1	1302.8	1278.5	1285.0	1284.4	1283.1	1281.8
25°	2019.7	1844.0	1552.3	1311.4	1224.5	1219.2	1231.1	1231.1	1225.8	1225.8
27.5°	2136.3	1861.7	1471.4	1214.0	1153.4	1154.0	1163.3	1160.6	1154.7	1150.8
30°	2278.5	1872.9	1376.6	1126.4	1086.9	1084.3	1086.9	1075.7	1057.9	1056.6
32.5°	2424.0	1859.1	1266.6	1048.7	1016.5	1010.5	1008.6	992.8	972.3	966.4
35°	2555.6	1808.4	1154.7	986.8	949.3	936.1	945.4	940.1	921.7	917.0
37.5°	2651.7	1714.3	1054.0	932.2	901.2	898.0	903.9	905.9	884.1	879.5
40°	2716.2	1586.6	967.7	886.1	892.0	879.5	859.8	845.9	839.4	837.4
42.5°	2768.3	1453.6	895.3	864.4	894.0	857.8	815.0	792.6	804.5	809.7
45°	2828.2	1323.9	834.8	837.4	884.1	832.8	784.1	762.3	766.9	768.3
47.5°	2910.5	1165.9	769.6	793.9	851.2	815.7	765.0	734.0	712.3	702.4
50°	3024.3	978.9	701.8	745.2	819.0	803.2	735.3	702.4	662.3	653.1
52.5°	3103.3	804.5	645.8	704.4	790.0	778.1	711.6	668.9	626.7	618.8
55°	3060.6	668.2	597.1	659.0	751.8	747.2	691.9	634.6	601.7	595.1
57.5°	2846.6	582.0	559.6	616.2	705.1	720.9	665.6	605.7	582.0	577.4
60°	2438.4	528.0	535.9	587.2	666.9	694.5	639.2	589.9	574.1	570.8
62.5°	1892.0	491.8	518.1	566.2	637.3	676.1	624.7	587.9	582.0	578.0
65°	1355.5	462.8	499.0	545.1	610.3	659.0	619.5	585.3	586.6	583.3
67.5°	921.0	437.1	476.0	521.4	583.9	643.8	612.2	576.0	592.5	588.5
70°	644.5	412.1	449.0	491.1	551.0	622.8	599.1	562.2	560.9	545.1
72.5°	503.0	379.2	412.1	449.0	508.9	593.2	572.7	531.3	509.5	493.1
73°	479.9	371.3	402.9	439.8	499.7	585.9	565.5	522.7	498.4	483.2
75°	397.0	337.1	366.0	398.9	460.2	551.7	530.0	483.9	452.9	443.7
77.5°	312.0	288.3	316.0	345.6	405.5	501.6	477.3	433.2	416.1	408.2
80°	231.1	239.0	263.3	289.7	351.5	448.3	426.6	382.5	458.9	439.8
82.5°	162.6	181.0	203.4	227.1	294.9	396.3	370.0	324.6	335.7	279.1
85°	96.1	118.5	139.6	160.0	212.6	328.5	305.5	258.7	212.0	202.1
87.5°	56.0	65.8	71.8	92.8	146.1	247.5	215.3	191.6	109.9	74.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)