

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: P299234

Luminaire Tested: **GLNA-AF-04-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-T3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15250.7 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full 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

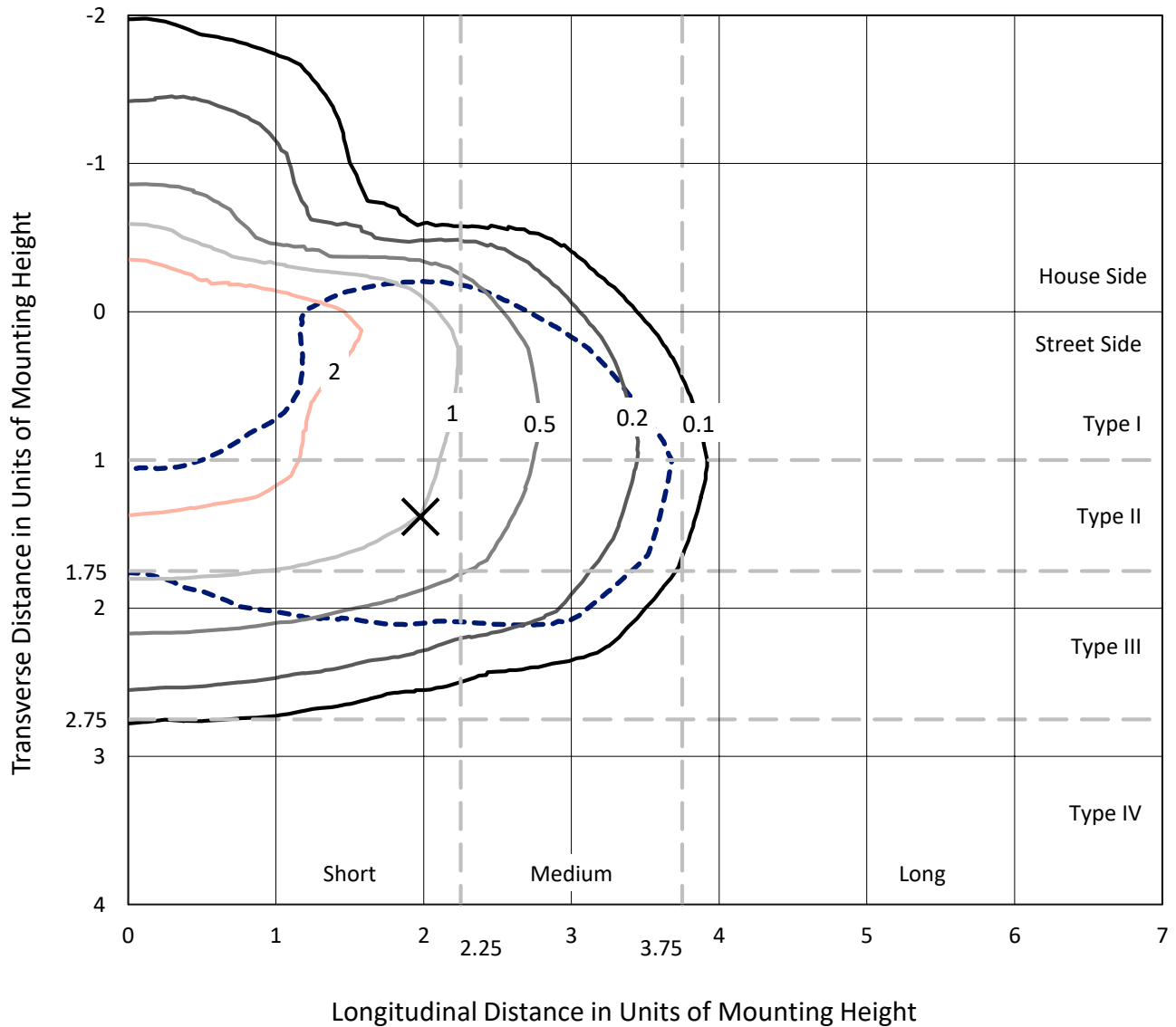


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

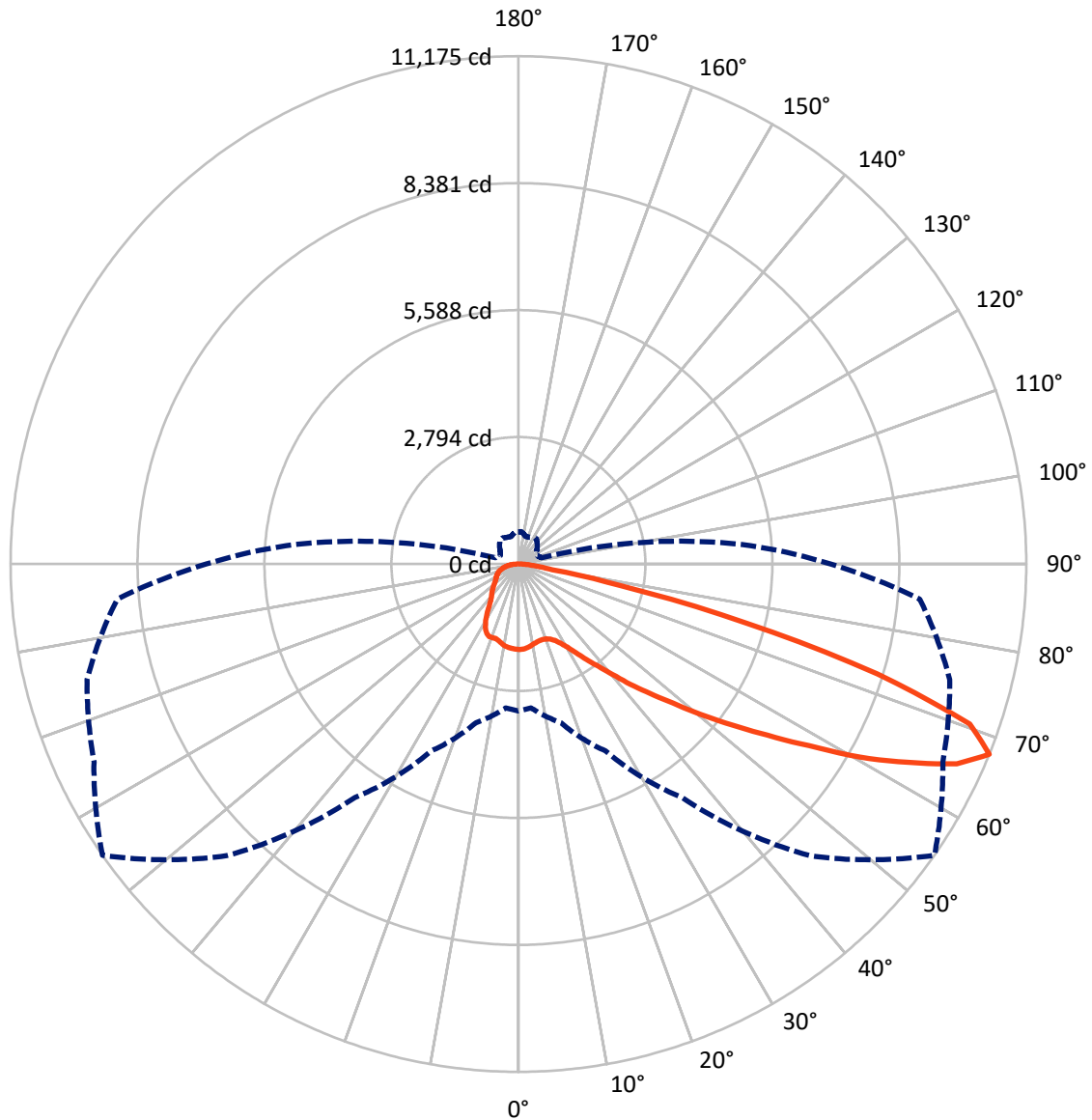


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3294.5	0.0	3294.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11956.2	0.0	11956.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	15250.7	0.0	15250.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.2
10°-20°	497.1	3.3
20°-30°	832.8	5.5
30°-40°	1369.4	9.0
40°-50°	2305.2	15.1
50°-60°	3628.1	23.8
60°-70°	4329.8	28.4
70°-80°	1859.3	12.2
80°-90°	253.5	1.7
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°	15250.7	100.0
0°-180°	15250.7	100.0



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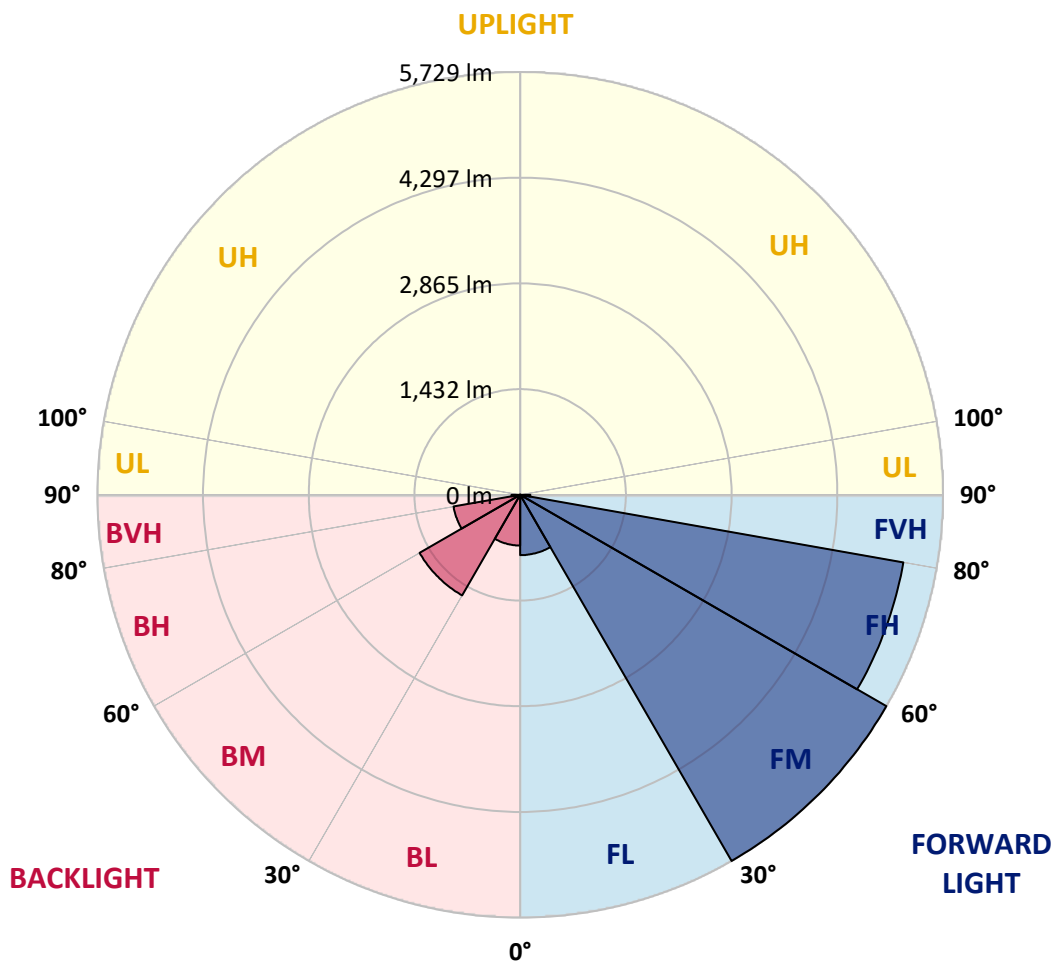
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.5	5.4			
FM (30°-60°)	5729.3	37.6			
FH (60°-80°)	5272.2	34.6			G3/7500
FVH (80°-90°)	137.2	0.9			G2/225
BL (0°-30°)	687.9	4.5	B2/1000		
BM (30°-60°)	1573.4	10.3	B2/2500		
BH (60°-80°)	916.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	116.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1864.4	1865.1	1866.6	1872.5	1877.6	1876.2	1876.2	1874.0	1873.2	1868.8	1873.2
5°	1840.8	1843.0	1843.7	1853.3	1859.2	1860.7	1858.5	1854.8	1850.4	1846.0	1848.2
7.5°	1787.0	1792.9	1793.7	1806.9	1816.5	1829.0	1829.8	1830.5	1828.3	1825.3	1829.8
10°	1753.1	1754.6	1753.9	1763.5	1770.8	1784.8	1792.9	1806.9	1812.8	1814.3	1817.2
12.5°	1750.9	1749.5	1747.3	1747.3	1745.0	1750.9	1765.7	1785.6	1799.6	1804.0	1807.7
15°	1774.5	1773.8	1766.4	1755.4	1741.4	1736.9	1749.5	1771.6	1790.0	1799.6	1803.2
17.5°	1827.5	1823.1	1811.3	1786.3	1756.1	1744.3	1745.8	1764.2	1785.6	1798.1	1801.8
20°	1924.8	1924.8	1899.7	1852.6	1798.8	1770.8	1757.6	1768.6	1789.2	1806.2	1811.3
22.5°	2092.7	2094.2	2052.2	1974.9	1884.3	1824.6	1791.4	1789.2	1813.5	1832.7	1838.6
25°	2330.7	2324.8	2265.8	2155.3	2017.6	1918.9	1861.4	1848.2	1868.8	1890.2	1897.5
27.5°	2607.6	2586.3	2516.3	2383.0	2204.7	2060.3	1971.9	1950.6	1970.4	1994.8	2002.1
30°	2881.6	2859.5	2776.3	2630.5	2432.3	2249.6	2122.9	2088.3	2116.3	2150.9	2155.3
32.5°	3155.7	3155.7	3062.8	2892.7	2676.9	2475.8	2324.0	2282.8	2329.2	2371.2	2380.7
35°	3483.5	3484.9	3395.1	3190.3	2958.2	2745.4	2578.2	2548.0	2617.9	2647.4	2670.2
37.5°	3886.4	3894.5	3778.8	3531.3	3277.2	3053.3	2854.4	2813.1	2883.1	2963.4	3037.1
40°	4321.7	4332.0	4204.6	3899.6	3645.5	3411.3	3196.2	3121.8	3238.2	3391.4	3486.4
42.5°	4737.2	4790.2	4667.2	4353.4	4080.1	3837.8	3619.7	3511.4	3657.3	3888.6	3971.1
45°	5337.5	5375.8	5161.5	4877.1	4620.1	4349.0	4060.2	3946.1	4150.1	4441.8	4458.7
47.5°	5737.5	5708.8	5599.8	5423.0	5260.2	5006.8	4572.2	4446.9	4718.0	5061.3	4966.3
50°	5950.4	5959.2	5944.5	5954.8	5960.7	5801.6	5199.8	5028.1	5351.5	5766.2	5547.5
52.5°	6149.3	6090.3	6139.0	6380.6	6672.3	6613.3	5882.6	5703.6	6030.7	6548.5	6161.8
55°	6144.8	6055.0	6213.4	6639.9	7272.6	7340.4	6649.4	6443.2	6748.9	7387.5	6813.0
57.5°	5927.5	5932.0	6175.8	6734.1	7691.0	8024.0	7539.3	7229.9	7510.5	8237.6	7407.4
60°	5628.5	5669.0	6020.4	6718.7	8026.2	8584.5	8630.9	8077.7	8256.7	9010.3	7899.5
62.5°	5146.0	5188.7	5673.4	6558.1	7975.3	9124.5	9618.0	9039.7	9036.8	9478.8	8043.8
65°	4385.1	4372.6	4881.6	5957.7	7548.8	9523.7	10598.4	9871.4	9624.6	9486.1	7753.6
67.5°	3233.7	3177.8	3614.6	4537.6	6274.5	9076.6	11175.2	10304.5	9825.0	8862.2	6866.7
70°	1678.0	1622.0	1975.6	2649.6	4126.5	7084.0	10536.6	10080.6	9382.3	7428.8	5379.5
72.5°	717.5	707.9	851.5	1162.4	1996.2	4086.0	8261.9	8725.2	8050.5	5534.9	3698.5
75°	482.5	479.5	533.3	633.5	897.9	1658.1	5170.3	6193.5	5890.0	3431.9	2080.2
77.5°	378.6	374.9	406.6	455.2	581.9	654.1	2294.6	3325.1	3077.6	1493.9	910.5
80°	296.1	293.2	313.1	339.6	418.4	412.5	755.0	1323.0	1023.9	572.4	442.7
82.5°	233.5	233.5	249.7	250.4	296.9	281.4	394.1	582.7	511.2	333.7	271.1
85°	213.6	213.6	230.6	187.1	193.7	177.5	244.6	345.5	324.1	137.0	117.9
87.5°	107.5	104.6	193.7	165.7	105.3	94.3	119.3	167.2	179.7	75.9	58.9
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°	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6	1880.6
2.5°	1871.7	1871.0	1872.5	1873.2	1879.1	1887.2	1890.9	1896.0	1899.0	1897.5
5°	1849.6	1851.1	1857.0	1861.4	1871.7	1885.0	1892.4	1898.3	1903.4	1901.2
7.5°	1831.2	1834.9	1843.7	1847.4	1853.3	1857.0	1856.3	1858.5	1862.9	1857.7
10°	1820.9	1825.3	1832.0	1826.8	1812.8	1792.9	1774.5	1764.9	1767.9	1764.2
12.5°	1810.6	1816.5	1811.3	1787.0	1748.0	1722.2	1708.2	1709.7	1716.3	1717.8
15°	1804.7	1806.9	1784.8	1739.2	1699.4	1695.7	1703.1	1701.6	1702.3	1702.3
17.5°	1804.7	1798.8	1757.6	1711.9	1695.0	1688.3	1665.5	1636.8	1624.2	1619.8
20°	1814.3	1798.8	1748.7	1718.5	1681.7	1625.0	1564.6	1511.5	1488.0	1481.3
22.5°	1843.0	1816.5	1773.8	1721.5	1616.9	1521.8	1426.1	1362.7	1320.0	1312.6
25°	1901.2	1871.7	1823.1	1682.4	1513.7	1378.2	1269.2	1198.5	1155.8	1149.9
27.5°	2002.9	1983.7	1849.6	1596.2	1376.7	1231.6	1130.7	1076.2	1044.5	1042.3
30°	2156.1	2146.5	1836.4	1468.8	1208.0	1089.5	1040.8	1009.2	985.6	984.9
32.5°	2400.6	2323.3	1792.9	1313.4	1054.1	988.5	968.6	949.5	931.1	931.1
35°	2715.2	2466.2	1710.4	1146.9	960.5	932.6	907.5	877.3	853.0	851.5
37.5°	3084.9	2554.6	1562.4	1012.8	916.4	895.0	858.2	813.2	770.5	763.1
40°	3458.4	2581.1	1353.9	930.3	888.4	857.4	812.5	759.5	718.2	716.0
42.5°	3800.9	2530.3	1132.9	873.6	860.4	819.1	772.0	724.8	692.4	691.7
45°	4088.2	2398.4	947.3	819.9	830.9	784.5	742.5	704.2	679.2	674.0
47.5°	4358.6	2212.1	816.9	763.1	801.4	765.3	730.0	693.9	669.6	665.9
50°	4672.4	2011.0	725.6	707.9	775.7	758.7	740.3	702.7	662.2	657.8
52.5°	5052.4	1837.1	654.1	659.3	755.8	767.6	766.8	727.8	657.1	651.2
55°	5476.7	1644.1	600.3	619.5	747.7	783.8	773.4	751.3	661.5	652.6
57.5°	5894.4	1418.7	562.8	589.3	735.9	782.3	741.8	710.1	671.8	659.3
60°	6207.5	1116.0	534.0	562.8	710.1	758.0	707.2	665.2	669.6	660.0
62.5°	6228.1	862.6	499.4	539.9	671.1	733.7	684.3	645.3	679.2	670.3
65°	5862.0	651.9	466.3	512.7	629.1	718.2	662.2	634.2	699.0	689.5
67.5°	4935.3	524.5	438.3	484.7	587.1	685.8	642.3	623.9	716.7	699.8
70°	3563.0	447.1	411.0	450.8	549.5	649.0	624.7	605.5	668.8	642.3
72.5°	2193.6	387.5	380.1	405.9	520.8	610.7	598.1	570.9	602.6	581.2
75°	1095.3	335.9	345.5	361.7	480.3	567.2	553.9	526.7	531.1	526.7
77.5°	524.5	287.3	305.0	317.5	428.0	517.8	503.8	475.9	470.7	471.4
80°	332.2	240.1	257.1	265.9	382.3	460.4	446.4	418.4	477.3	442.7
82.5°	207.7	195.2	199.6	215.8	333.0	400.7	382.3	357.3	430.2	340.3
85°	114.9	136.3	142.2	156.2	256.3	335.2	316.7	285.1	255.6	251.2
87.5°	68.5	81.0	83.2	93.6	172.4	242.3	214.4	203.3	168.7	167.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)