

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: P200378

Luminaire Tested: **GWC-AF-02-LED-E1-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200378
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: GWC-AF-02-LED-E1-T4W-7050-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 13532 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-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

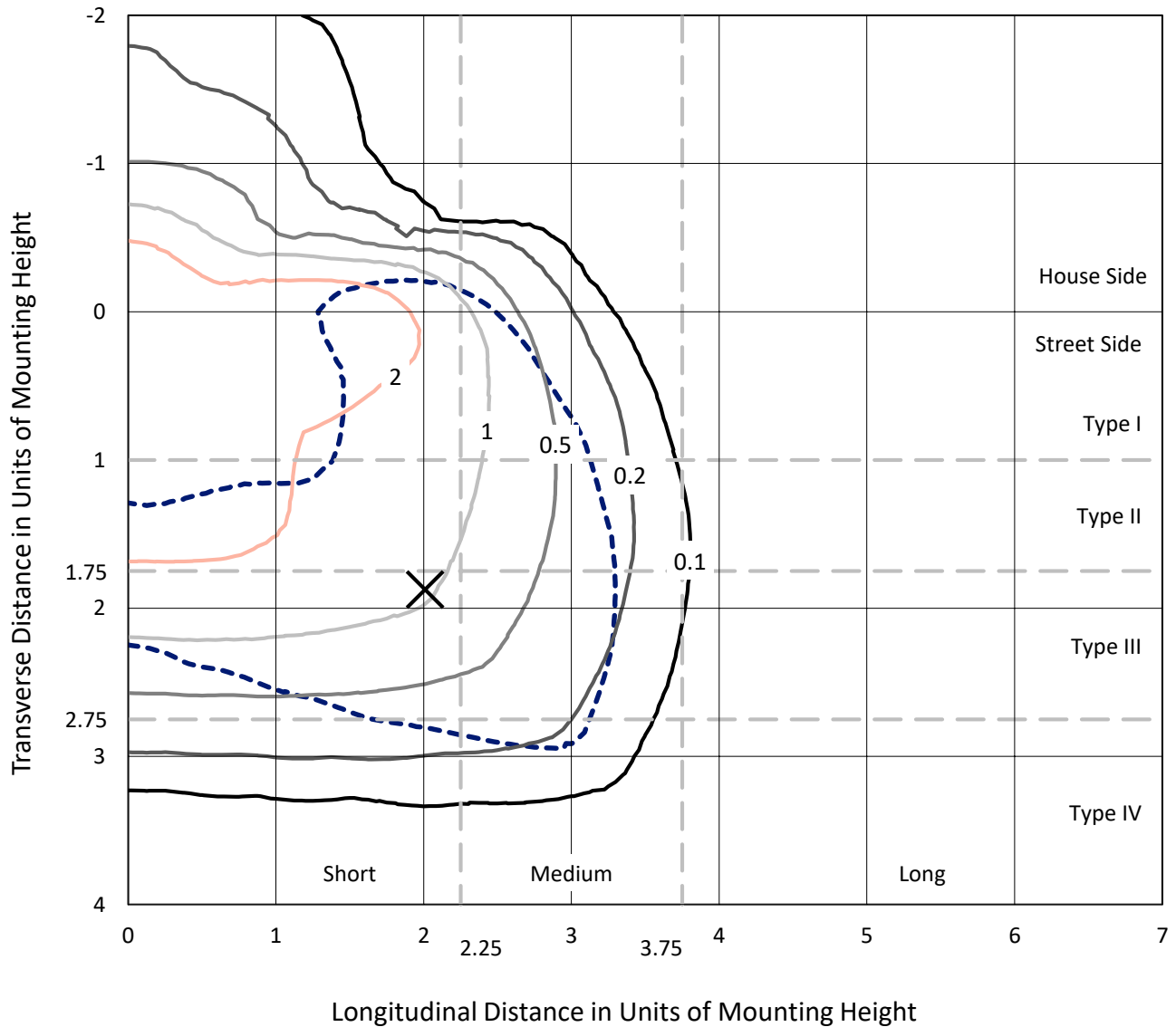


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

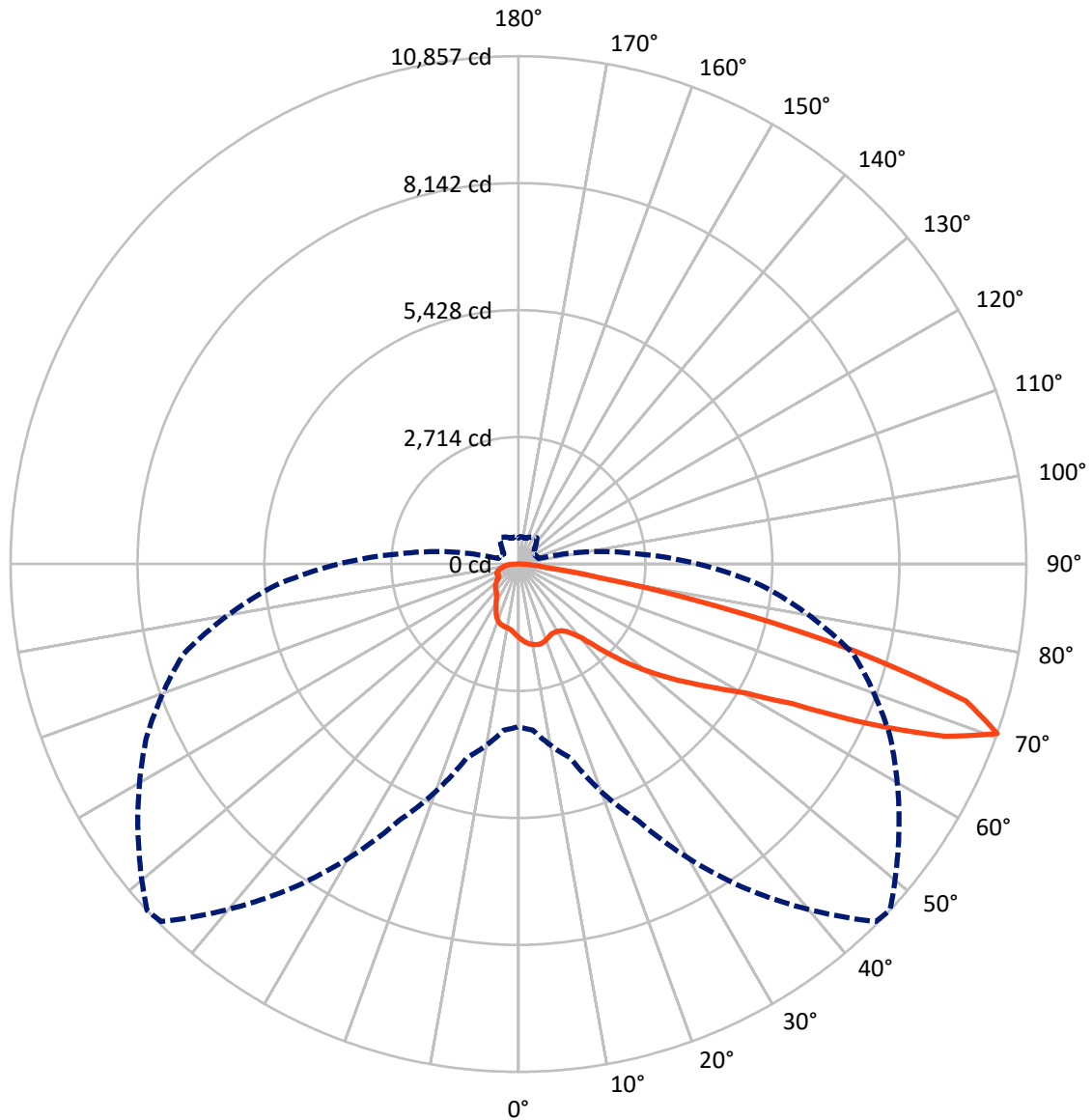


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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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	2823.1	0.0	2823.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10709.0	0.0	10709.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	13532.0	0.0	13532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.1
10°-20°	441.4	3.3
20°-30°	651.8	4.8
30°-40°	947.4	7.0
40°-50°	1704.9	12.6
50°-60°	2953.6	21.8
60°-70°	4215.6	31.2
70°-80°	2164.1	16.0
80°-90°	303.0	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°	13532.0	100.0
0°-180°	13532.0	100.0



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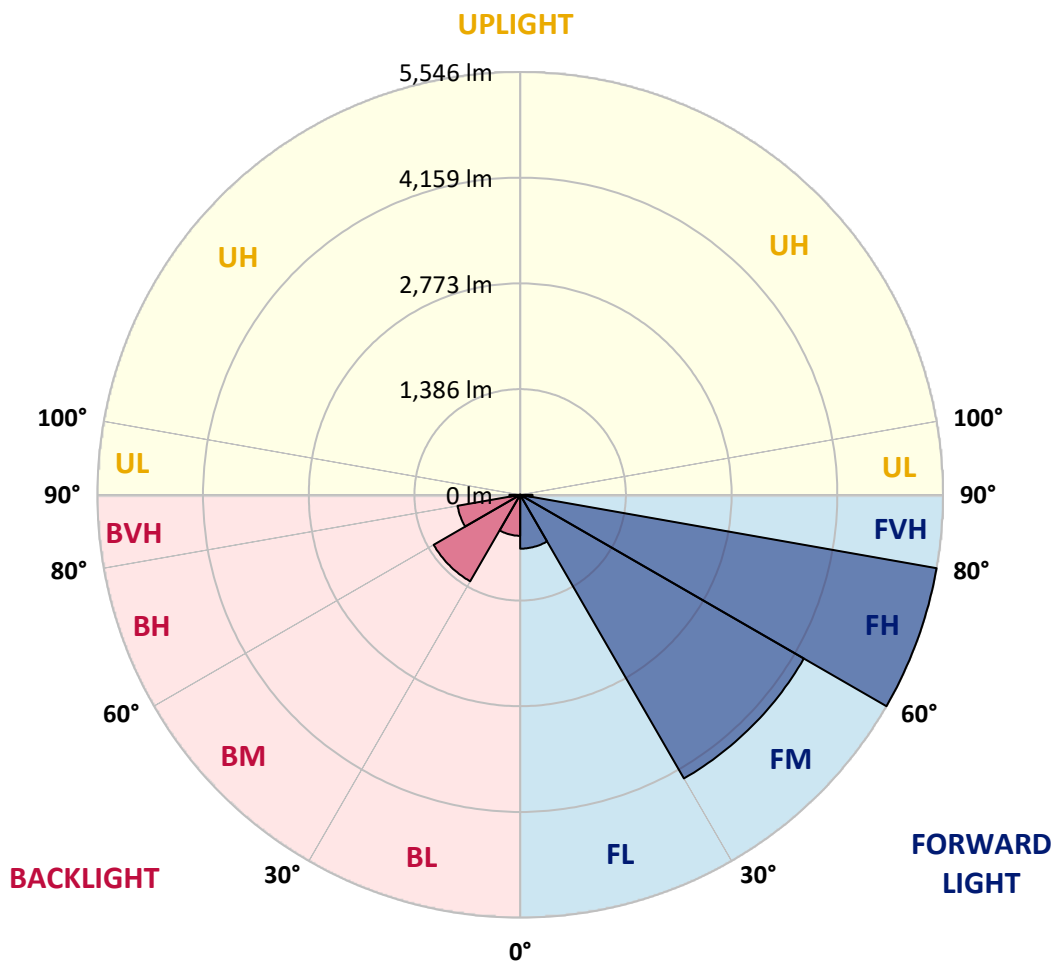
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	706.1	5.2			
FM	(30°-60°)	4295.4	31.7			
FH	(60°-80°)	5545.8	41.0			G3/7500
FVH	(80°-90°)	161.7	1.2			G2/225
BL	(0°-30°)	537.5	4.0	B2/1000		
BM	(30°-60°)	1310.4	9.7	B2/2500		
BH	(60°-80°)	833.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	141.3	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°	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1
2.5°	1662.3	1659.0	1657.7	1655.1	1651.8	1635.3	1632.0	1620.2	1603.7	1586.6	1568.8
5°	1771.6	1770.9	1763.7	1750.5	1729.5	1693.2	1684.7	1655.7	1616.9	1579.3	1541.8
7.5°	1867.7	1861.8	1848.0	1821.6	1784.8	1735.4	1723.5	1683.4	1630.0	1578.7	1528.0
10°	1938.1	1934.9	1904.6	1868.4	1820.3	1765.7	1751.8	1707.1	1648.5	1583.3	1520.1
12.5°	1978.3	1971.7	1936.8	1893.4	1836.1	1782.8	1769.0	1723.5	1657.7	1583.3	1508.9
15°	1975.7	1971.1	1936.2	1888.8	1830.8	1784.1	1771.6	1726.2	1655.7	1576.7	1494.4
17.5°	1923.0	1925.0	1895.4	1848.6	1801.2	1765.7	1754.5	1712.3	1642.6	1563.5	1477.3
20°	1830.8	1840.1	1820.3	1778.8	1752.5	1728.1	1720.9	1685.3	1622.1	1544.5	1458.9
22.5°	1738.7	1747.2	1739.3	1704.4	1700.5	1686.0	1682.1	1656.4	1604.4	1532.6	1447.7
25°	1670.9	1678.8	1677.4	1647.2	1659.0	1658.4	1655.1	1642.6	1600.4	1532.6	1449.7
27.5°	1652.4	1655.1	1652.4	1624.8	1641.2	1654.4	1651.8	1649.8	1612.3	1551.7	1474.7
30°	1715.6	1711.7	1691.3	1635.3	1650.5	1668.9	1666.3	1667.6	1647.8	1601.7	1530.6
32.5°	1967.8	1950.0	1885.5	1728.1	1688.0	1697.9	1699.2	1720.9	1724.2	1678.8	1617.5
35°	2345.0	2325.2	2241.6	1977.0	1804.5	1770.3	1770.3	1803.2	1822.9	1789.4	1752.5
37.5°	2744.6	2722.9	2678.1	2322.0	2049.4	1896.0	1892.7	1915.8	1944.1	1952.0	1961.2
40°	3198.9	3175.8	3188.3	2709.1	2391.1	2113.9	2067.2	2050.7	2127.1	2177.8	2251.5
42.5°	3695.9	3685.4	3690.0	3140.3	2780.2	2439.8	2373.3	2288.4	2380.5	2470.7	2625.4
45°	4156.1	4165.3	4160.7	3601.8	3213.3	2837.4	2767.0	2602.4	2692.6	2847.3	3099.4
47.5°	4559.0	4520.8	4580.0	4106.0	3698.5	3282.5	3195.6	2975.0	3066.5	3257.5	3684.1
50°	5048.1	5042.9	4956.0	4778.9	4285.1	3729.5	3615.6	3360.2	3502.4	3767.7	4420.7
52.5°	5562.3	5466.8	5387.2	5302.2	4907.2	4187.7	4048.1	3744.0	4014.5	4348.3	5318.7
55°	5667.6	5624.8	5723.6	5866.4	5507.0	4663.7	4501.0	4225.2	4591.2	5011.9	6354.3
57.5°	5892.8	5892.1	6096.2	6351.0	6124.5	5168.6	5004.7	4806.5	5239.7	5772.3	7453.7
60°	6044.8	6087.6	6466.8	6961.3	6730.8	5751.9	5601.1	5477.4	5977.0	6622.2	8478.1
62.5°	6124.5	6182.4	6699.9	7208.8	7588.0	6722.9	6572.2	6393.8	6952.7	7554.4	9077.1
65°	5793.4	5907.3	6663.7	7422.7	8338.5	8297.0	8229.2	7915.8	8172.6	8291.1	8860.6
67.5°	4877.0	4993.5	5874.3	7223.3	8874.4	9815.1	9829.6	9294.4	8923.1	8354.3	7449.7
70°	3474.7	3566.2	4295.0	6056.0	8466.2	10807.3	10856.6	9929.7	8773.7	7408.9	5204.8
72.5°	1649.8	1705.8	2395.7	3941.5	6718.3	9902.0	9997.5	9118.6	7460.3	5485.3	2839.4
75°	606.3	623.4	809.8	1676.8	3896.7	7302.3	7414.8	6536.6	4945.4	2730.8	1081.6
77.5°	363.4	374.6	454.3	707.7	1532.6	4173.9	4340.4	3555.0	2161.3	1016.5	531.9
80°	254.1	262.0	325.9	440.4	724.2	1590.5	1738.7	1451.0	861.1	643.2	387.1
82.5°	171.8	175.8	229.1	297.6	481.2	568.1	612.9	645.2	580.7	478.6	245.6
85°	112.6	116.5	155.4	196.2	306.1	293.6	300.2	379.9	424.0	325.2	136.3
87.5°	64.5	67.2	93.5	104.7	150.1	124.4	125.7	200.1	271.2	219.2	83.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1	1570.1
2.5°	1564.2	1555.6	1536.6	1524.7	1513.5	1510.9	1506.3	1505.6	1505.0	1505.0	1503.0
5°	1529.3	1514.8	1485.2	1468.7	1454.9	1453.6	1452.9	1456.2	1457.6	1458.9	1456.9
7.5°	1506.9	1487.2	1450.3	1426.6	1410.2	1406.2	1412.8	1427.9	1437.8	1441.8	1439.8
10°	1493.1	1468.7	1426.0	1400.3	1386.5	1384.5	1393.0	1410.8	1431.2	1439.1	1438.5
12.5°	1477.3	1449.7	1404.2	1377.2	1369.3	1373.3	1384.5	1400.9	1422.0	1434.5	1435.2
15°	1461.5	1429.2	1382.5	1358.8	1355.5	1360.8	1371.3	1383.8	1400.3	1412.8	1414.1
17.5°	1442.4	1408.8	1362.1	1337.7	1335.1	1337.7	1338.4	1345.0	1355.5	1367.4	1370.7
20°	1422.0	1387.8	1339.1	1314.7	1302.8	1292.3	1280.5	1281.8	1285.1	1296.9	1299.6
22.5°	1407.5	1373.3	1321.3	1287.7	1256.1	1224.5	1200.8	1197.5	1198.8	1208.7	1212.0
25°	1408.8	1372.6	1316.7	1258.7	1189.6	1138.9	1107.3	1102.1	1101.4	1108.6	1113.2
27.5°	1434.5	1398.3	1333.8	1229.1	1117.2	1042.1	1008.6	1004.6	999.4	1001.3	1006.6
30°	1491.8	1458.2	1375.3	1198.8	1038.9	947.3	912.5	908.5	901.3	898.0	901.9
32.5°	1585.3	1557.6	1435.8	1169.9	960.5	866.4	830.8	822.3	817.7	813.7	817.0
35°	1740.6	1728.8	1516.8	1138.3	891.4	803.8	771.6	758.4	751.8	759.1	764.3
37.5°	1984.2	1990.8	1622.8	1088.9	838.1	762.4	735.4	720.2	710.3	716.3	722.2
40°	2329.2	2333.8	1740.0	1019.1	792.0	738.0	709.0	695.2	681.4	670.8	670.2
42.5°	2782.1	2735.4	1855.2	943.4	738.7	722.9	690.6	673.5	652.4	623.4	617.5
45°	3319.3	3155.4	1942.8	856.5	678.7	704.4	670.2	646.5	613.6	582.0	578.7
47.5°	3938.2	3606.4	1985.5	766.3	622.8	677.4	645.2	607.6	566.2	550.4	548.4
50°	4693.9	4141.6	2006.0	678.7	574.1	641.9	609.0	564.9	530.0	526.7	524.7
52.5°	5554.4	4785.5	2012.5	607.0	533.9	595.8	579.3	536.5	508.9	511.5	511.5
55°	6455.0	5450.4	1923.0	555.0	497.0	548.4	559.6	525.4	502.3	512.8	516.8
57.5°	7281.9	6039.6	1641.2	514.8	462.2	512.2	552.3	535.9	520.1	562.9	565.5
60°	7916.5	6387.8	1225.8	478.6	436.5	499.7	571.4	576.0	580.0	682.0	695.9
62.5°	8049.5	6272.0	842.7	450.3	424.6	510.2	606.3	607.0	602.4	673.5	682.0
65°	7439.2	5539.2	612.9	434.5	414.8	529.3	636.0	622.1	591.8	645.8	630.0
67.5°	5907.9	4173.2	510.2	422.7	400.3	528.0	667.6	636.0	585.9	632.7	607.0
70°	3834.8	2523.4	454.3	412.8	383.2	503.0	686.0	634.6	568.8	588.6	558.3
72.5°	1871.0	1128.4	416.7	398.3	365.4	468.1	685.3	622.8	551.0	549.7	533.3
75°	732.1	516.8	382.5	376.6	335.1	428.6	666.9	605.7	530.0	508.9	503.0
77.5°	428.6	368.7	339.0	344.3	298.9	389.1	639.9	576.0	501.0	476.0	469.4
80°	312.1	275.8	289.0	297.6	255.4	349.6	603.7	539.8	468.7	481.2	472.0
82.5°	200.1	177.8	234.4	242.9	212.6	309.4	564.2	501.7	423.3	384.5	375.3
85°	102.0	112.6	174.5	185.0	163.9	254.1	516.1	451.0	372.0	320.0	325.2
87.5°	57.3	77.0	111.3	124.4	115.9	195.5	418.7	372.0	303.5	246.9	217.3
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)