

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: P200194

Luminaire Tested: **GWC-AF-02-LED-E1-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200194
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: GWC-AF-02-LED-E1-T3-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13942.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

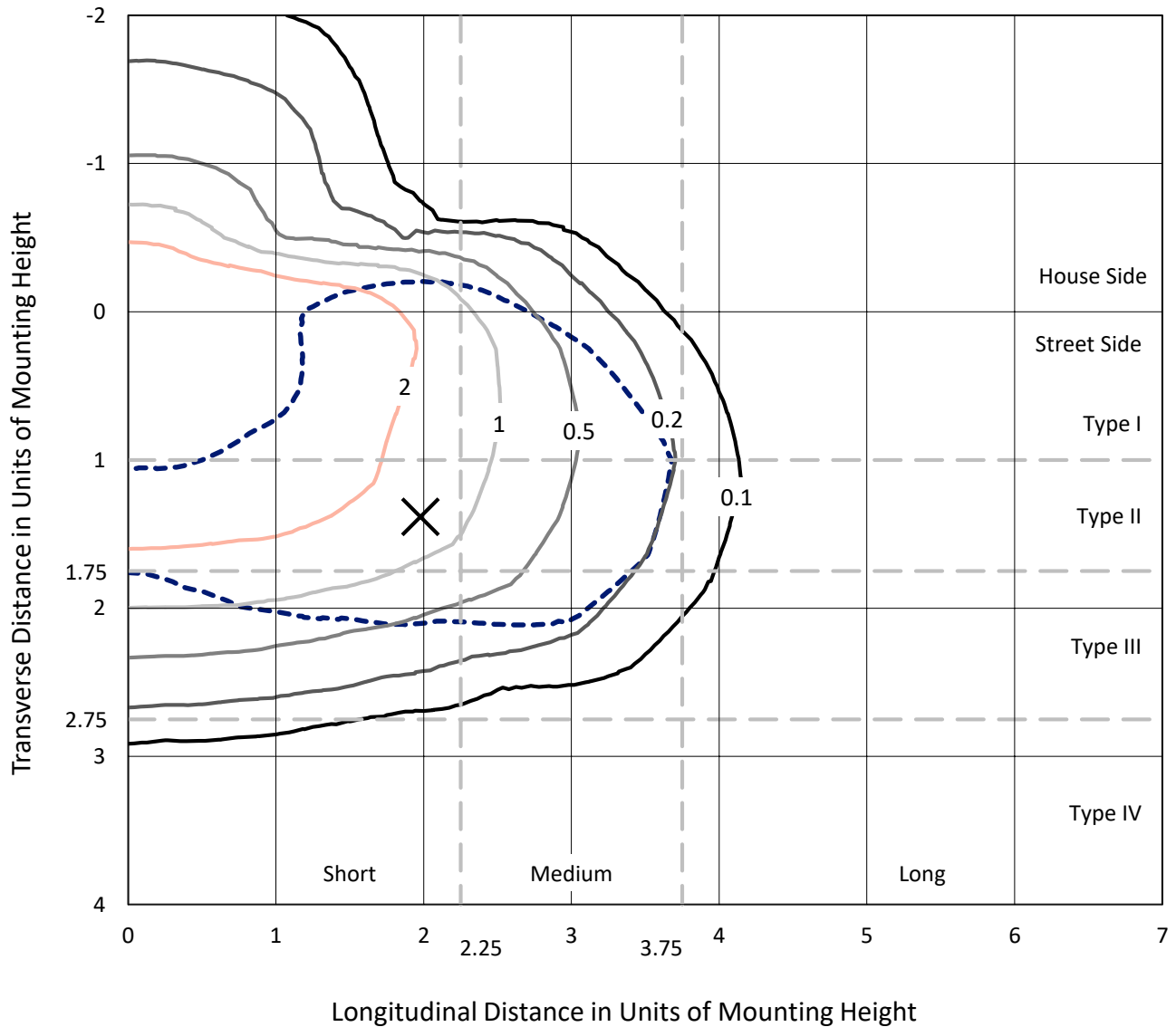
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200194
 CATALOG NUMBER: GWC-AF-02-LED-E1-T3-1200

Iso-Footcandle Lines of Horizontal Illumination

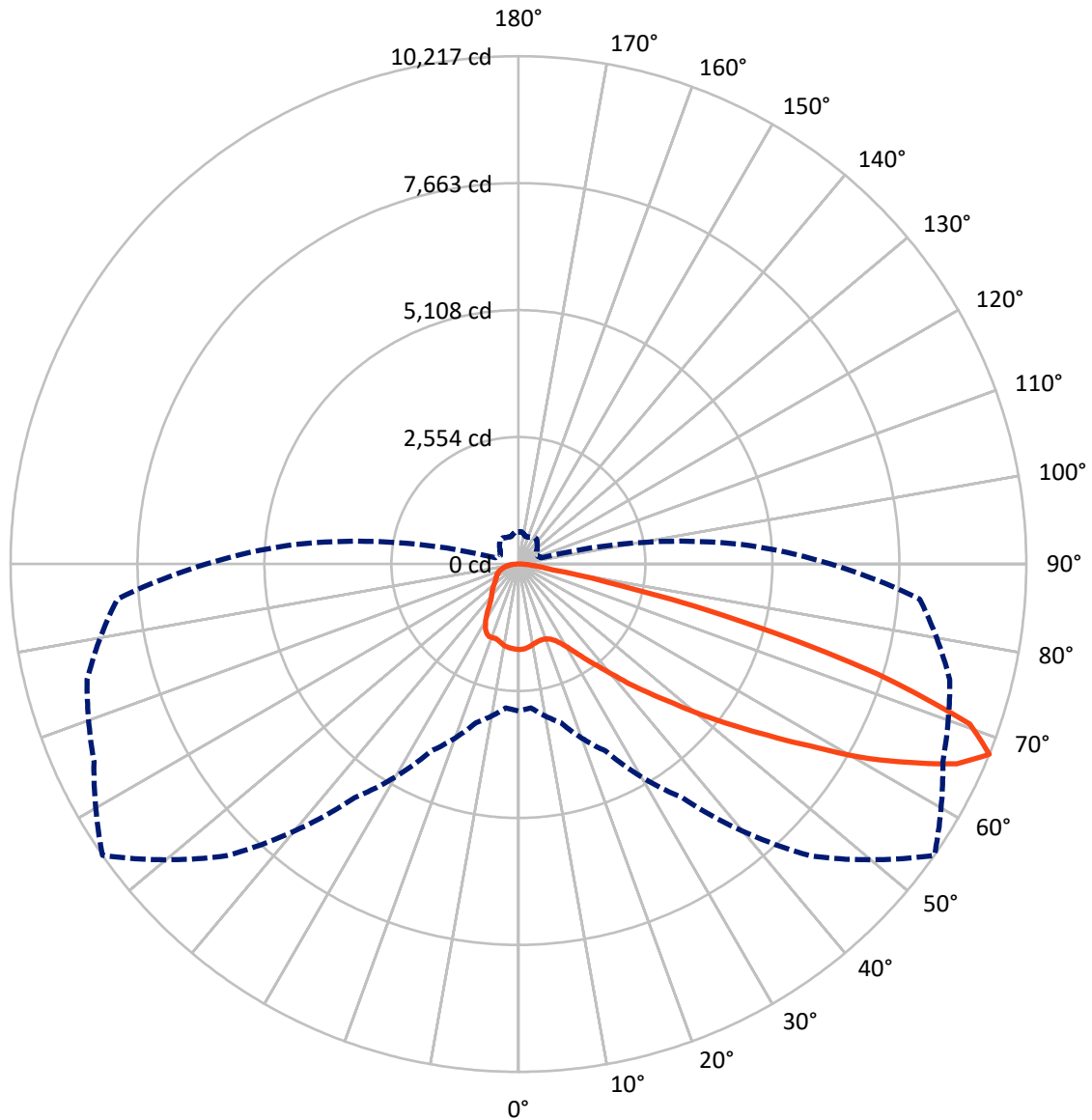
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200194
CATALOG NUMBER: GWC-AF-02-LED-E1-T3-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P200194

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3012.0	0.0	3012.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10930.9	0.0	10930.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	13942.8	0.0	13942.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.2
10°-20°	454.5	3.3
20°-30°	761.3	5.5
30°-40°	1252.0	9.0
40°-50°	2107.5	15.1
50°-60°	3317.0	23.8
60°-70°	3958.5	28.4
70°-80°	1699.8	12.2
80°-90°	231.8	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°	13942.8	100.0
0°-180°	13942.8	100.0



REPORT NUMBER: P200194

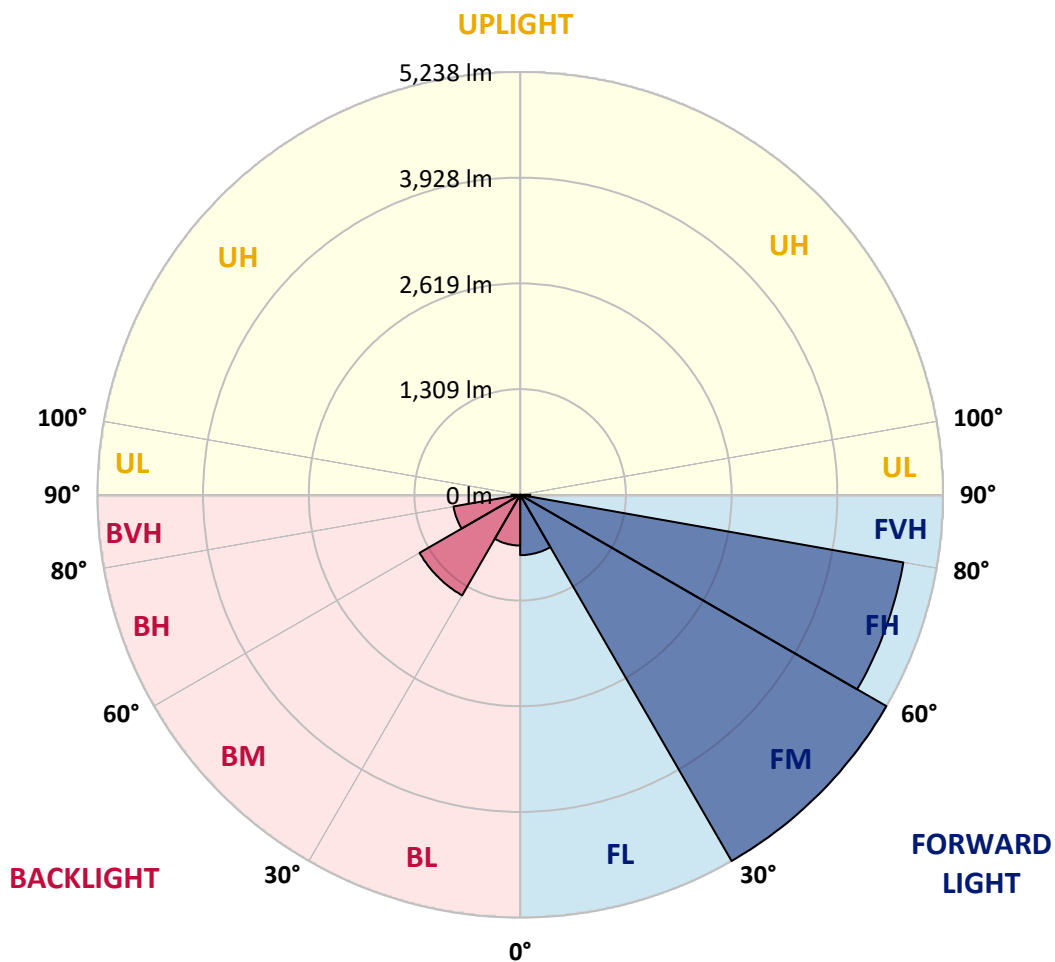
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.4	5.4			
FM	(30°-60°)	5238.0	37.6			
FH	(60°-80°)	4820.1	34.6			G2/5000
FVH	(80°-90°)	125.5	0.9			G2/225
BL	(0°-30°)	629.0	4.5	B2/1000		
BM	(30°-60°)	1438.5	10.3	B2/2500		
BH	(60°-80°)	838.2	6.0	B2/1000		G2/1000
BVH	(80°-90°)	106.3	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-G2

Type III Short





REPORT NUMBER: P200194

CATALOG NUMBER: GWC-AF-02-LED-E1-T3-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3
2.5°	1704.4	1705.2	1706.5	1711.9	1716.6	1715.3	1715.9	1713.2	1712.5	1708.5	1712.5
5°	1683.0	1685.0	1685.6	1694.4	1699.7	1701.2	1699.1	1695.7	1691.7	1687.7	1689.7
7.5°	1633.8	1639.2	1639.8	1652.0	1660.8	1672.1	1672.8	1673.5	1671.5	1668.8	1672.8
10°	1602.8	1604.2	1603.5	1612.3	1618.9	1631.7	1639.2	1652.0	1657.4	1658.7	1661.4
12.5°	1600.8	1599.4	1597.4	1597.4	1595.4	1600.8	1614.2	1632.4	1645.2	1649.3	1652.7
15°	1622.3	1621.7	1614.9	1604.8	1592.0	1588.0	1599.4	1619.6	1636.5	1645.2	1648.6
17.5°	1670.8	1666.8	1656.0	1633.1	1605.5	1594.7	1596.1	1612.9	1632.4	1643.9	1647.3
20°	1759.7	1759.7	1736.8	1693.7	1644.6	1618.9	1606.9	1617.0	1635.8	1651.2	1656.0
22.5°	1913.2	1914.6	1876.2	1805.5	1722.6	1668.1	1637.8	1635.8	1658.0	1675.5	1680.9
25°	2130.8	2125.4	2071.5	1970.5	1844.6	1754.4	1701.8	1689.7	1708.5	1728.1	1734.8
27.5°	2384.0	2364.4	2300.5	2178.6	2015.6	1883.7	1802.8	1783.3	1801.4	1823.7	1830.5
30°	2634.5	2614.4	2538.2	2404.9	2223.7	2056.7	1940.8	1909.2	1934.8	1966.4	1970.5
32.5°	2885.0	2885.0	2800.2	2644.6	2447.3	2263.5	2124.7	2087.0	2129.5	2167.8	2176.5
35°	3184.8	3186.1	3103.9	2916.6	2704.6	2509.9	2357.1	2329.5	2393.4	2420.4	2441.3
37.5°	3553.1	3560.5	3454.8	3228.5	2996.1	2791.4	2609.5	2571.9	2635.8	2709.3	2776.6
40°	3951.0	3960.6	3844.0	3565.2	3332.9	3118.7	2922.1	2854.0	2960.4	3100.6	3187.4
42.5°	4330.9	4379.4	4266.9	3980.1	3730.2	3508.6	3309.3	3210.3	3343.6	3555.1	3630.6
45°	4879.8	4914.8	4718.8	4458.8	4223.9	3976.0	3712.0	3607.6	3794.2	4060.9	4076.4
47.5°	5245.5	5219.2	5119.6	4957.9	4809.1	4577.4	4180.1	4065.6	4313.4	4627.2	4540.4
50°	5440.1	5448.1	5434.7	5444.1	5449.5	5304.0	4753.9	4596.9	4892.6	5271.7	5071.7
52.5°	5621.9	5568.0	5612.5	5833.4	6100.1	6046.2	5378.2	5214.5	5513.5	5986.9	5633.4
55°	5617.8	5535.7	5680.5	6070.4	6648.9	6710.9	6079.2	5890.7	6170.1	6753.9	6228.6
57.5°	5419.2	5423.3	5646.2	6156.6	7031.5	7335.8	6892.7	6609.9	6866.5	7531.2	6772.1
60°	5145.7	5182.8	5504.1	6142.5	7337.8	7848.3	7890.7	7385.0	7548.7	8237.5	7222.0
62.5°	4704.7	4743.7	5186.9	5995.7	7291.4	8342.0	8793.2	8264.5	8261.8	8665.8	7354.0
65°	4009.0	3997.6	4462.9	5446.8	6901.4	8706.9	9689.5	9024.8	8799.2	8672.6	7088.6
67.5°	2956.4	2905.3	3304.5	4148.4	5736.4	8298.2	10216.8	9420.8	8982.4	8102.2	6277.8
70°	1534.1	1483.0	1806.2	2422.3	3772.6	6476.5	9632.9	9216.1	8577.6	6791.7	4918.1
72.5°	655.9	647.2	778.5	1062.7	1825.0	3735.6	7553.4	7977.0	7360.0	5060.2	3381.4
75°	441.1	438.4	487.5	579.2	820.9	1515.9	4726.9	5662.3	5384.8	3137.6	1901.8
77.5°	346.2	342.8	371.7	416.2	532.0	598.0	2097.8	3039.9	2813.6	1365.7	832.4
80°	270.8	268.0	286.2	310.5	382.5	377.2	690.3	1209.5	936.1	523.2	404.8
82.5°	213.5	213.5	228.3	228.9	271.4	257.3	360.3	532.7	467.4	305.0	247.9
85°	195.3	195.3	210.8	171.0	177.1	162.3	223.6	315.9	296.3	125.3	107.7
87.5°	98.3	95.6	177.1	151.5	96.3	86.2	109.1	152.8	164.3	69.4	53.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200194
 CATALOG NUMBER: GWC-AF-02-LED-E1-T3-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3	1719.3
2.5°	1711.2	1710.6	1711.9	1712.5	1717.9	1725.4	1728.7	1733.5	1736.2	1734.8
5°	1691.0	1692.4	1697.8	1701.8	1711.2	1723.4	1730.1	1735.4	1740.1	1738.2
7.5°	1674.2	1677.5	1685.6	1689.0	1694.4	1697.8	1697.1	1699.1	1703.1	1698.4
10°	1664.8	1668.8	1674.9	1670.2	1657.4	1639.2	1622.3	1613.6	1616.3	1612.9
12.5°	1655.3	1660.8	1656.0	1633.8	1598.1	1574.5	1561.7	1563.1	1569.1	1570.4
15°	1649.9	1652.0	1631.7	1590.0	1553.7	1550.3	1557.0	1555.7	1556.3	1556.3
17.5°	1649.9	1644.6	1606.9	1565.1	1549.6	1543.5	1522.7	1496.4	1484.9	1480.9
20°	1658.7	1644.6	1598.8	1571.2	1537.5	1485.6	1430.4	1381.9	1360.3	1354.3
22.5°	1685.0	1660.8	1621.7	1573.8	1478.2	1391.3	1303.8	1245.9	1206.8	1200.1
25°	1738.2	1711.2	1666.8	1538.1	1384.0	1260.0	1160.3	1095.7	1056.6	1051.3
27.5°	1831.1	1813.6	1691.0	1459.3	1258.6	1126.0	1033.7	983.9	954.9	952.9
30°	1971.1	1962.4	1678.9	1342.8	1104.5	996.0	951.5	922.6	901.1	900.4
32.5°	2194.7	2124.1	1639.2	1200.7	963.7	903.8	885.6	868.1	851.2	851.2
35°	2482.3	2254.7	1563.8	1048.5	878.2	852.6	829.7	802.1	779.9	778.5
37.5°	2820.4	2335.5	1428.3	926.0	837.8	818.3	784.6	743.5	704.4	697.7
40°	3161.8	2359.7	1237.8	850.6	812.2	783.9	742.8	694.3	656.6	654.6
42.5°	3475.0	2313.3	1035.7	798.7	786.5	748.9	705.7	662.7	633.0	632.4
45°	3737.7	2192.7	866.0	749.5	759.6	717.2	678.8	643.8	620.9	616.2
47.5°	3984.8	2022.4	746.9	697.7	732.7	699.7	667.4	634.4	612.1	608.8
50°	4271.6	1838.5	663.4	647.2	709.1	693.7	676.8	642.5	605.4	601.4
52.5°	4619.1	1679.6	598.0	602.7	691.0	701.7	701.0	665.3	600.7	595.4
55°	5007.0	1503.1	548.8	566.4	683.5	716.6	707.2	686.9	604.8	596.7
57.5°	5388.9	1297.1	514.5	538.8	672.8	715.2	678.1	649.2	614.2	602.7
60°	5675.1	1020.3	488.3	514.5	649.2	692.9	646.5	608.1	612.1	603.4
62.5°	5693.9	788.6	456.6	493.7	613.5	670.7	625.6	589.9	620.9	612.8
65°	5359.2	596.0	426.3	468.7	575.1	656.6	605.4	579.8	639.1	630.3
67.5°	4512.0	479.5	400.7	443.1	536.7	627.0	587.3	570.4	655.3	639.8
70°	3257.5	408.8	375.8	412.1	502.4	593.3	571.1	553.6	611.5	587.3
72.5°	2005.5	354.2	347.5	371.0	476.1	558.3	546.9	521.9	550.9	531.3
75°	1001.4	307.1	315.9	330.6	439.1	518.5	506.5	481.5	485.6	481.5
77.5°	479.5	262.7	278.9	290.2	391.3	473.4	460.6	435.1	430.4	431.0
80°	303.7	219.5	235.1	243.2	349.5	420.9	408.2	382.5	436.4	404.8
82.5°	190.0	178.5	182.5	197.3	304.4	366.3	349.5	326.6	393.3	311.2
85°	105.1	124.6	130.0	142.8	234.4	306.4	289.6	260.6	233.6	229.7
87.5°	62.6	74.1	76.1	85.5	157.6	221.6	196.0	185.9	154.3	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)