

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: P527489

Luminaire Tested: **GALN-SA2C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7689 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

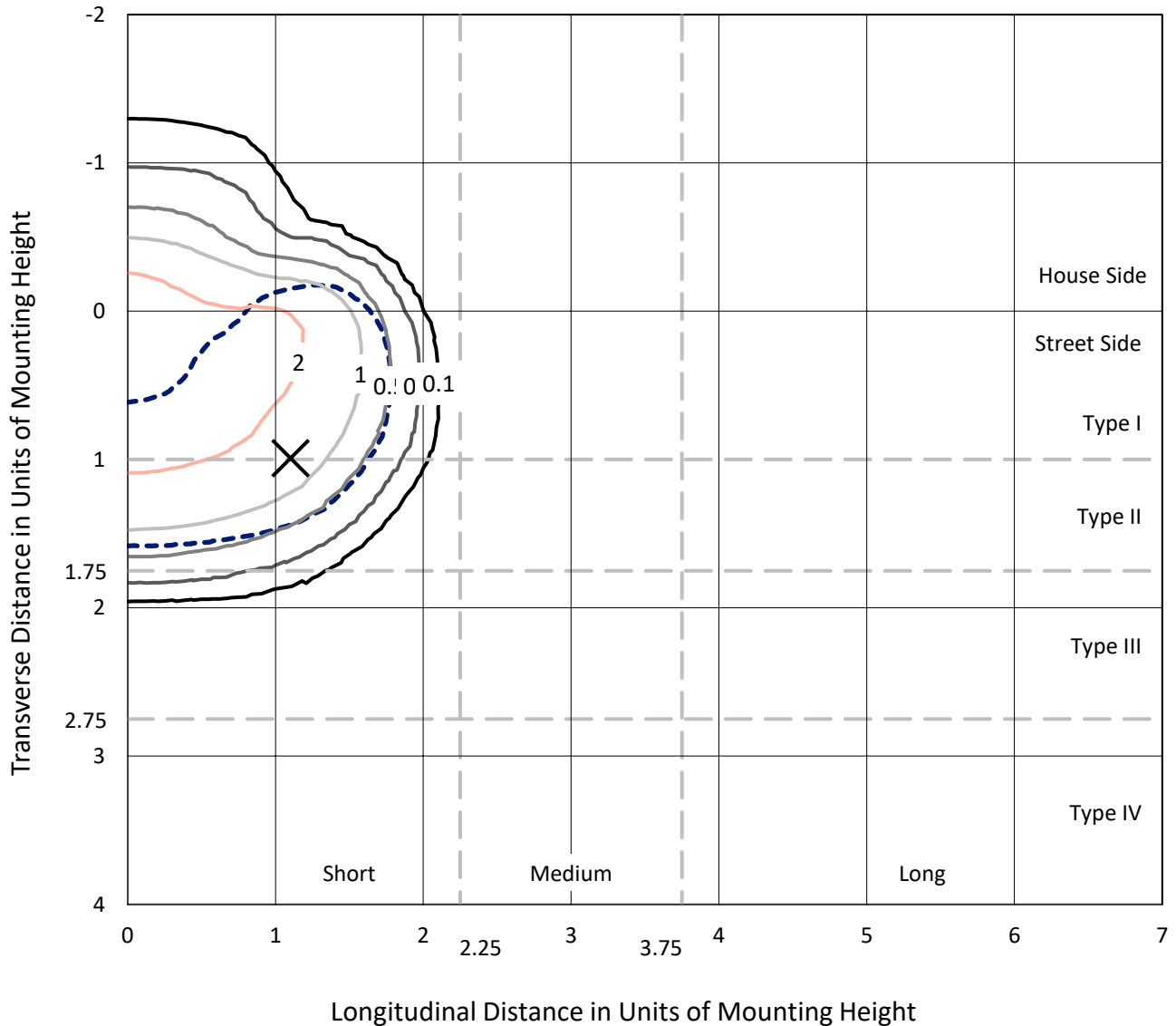
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

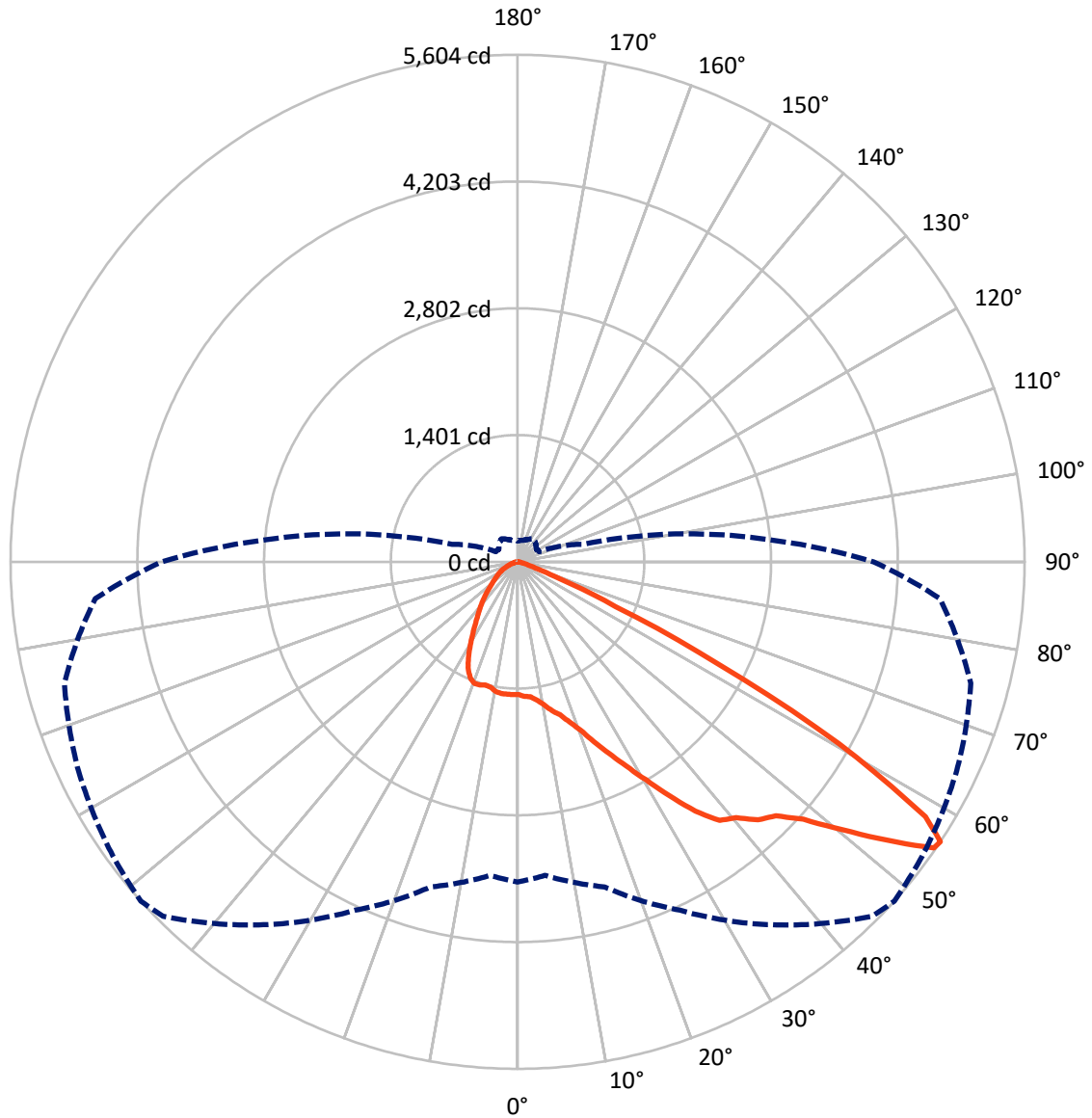
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.2	0.0	1672.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6016.8	0.0	6016.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	7689.0	0.0	7689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	1.9
10°-20°	457.2	5.9
20°-30°	829.2	10.8
30°-40°	1302.6	16.9
40°-50°	1900.2	24.7
50°-60°	2289.4	29.8
60°-70°	670.3	8.7
70°-80°	85.0	1.1
80°-90°	11.9	0.2
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°	7689.0	100.0
0°-180°	7689.0	100.0

Coefficient of Utilization



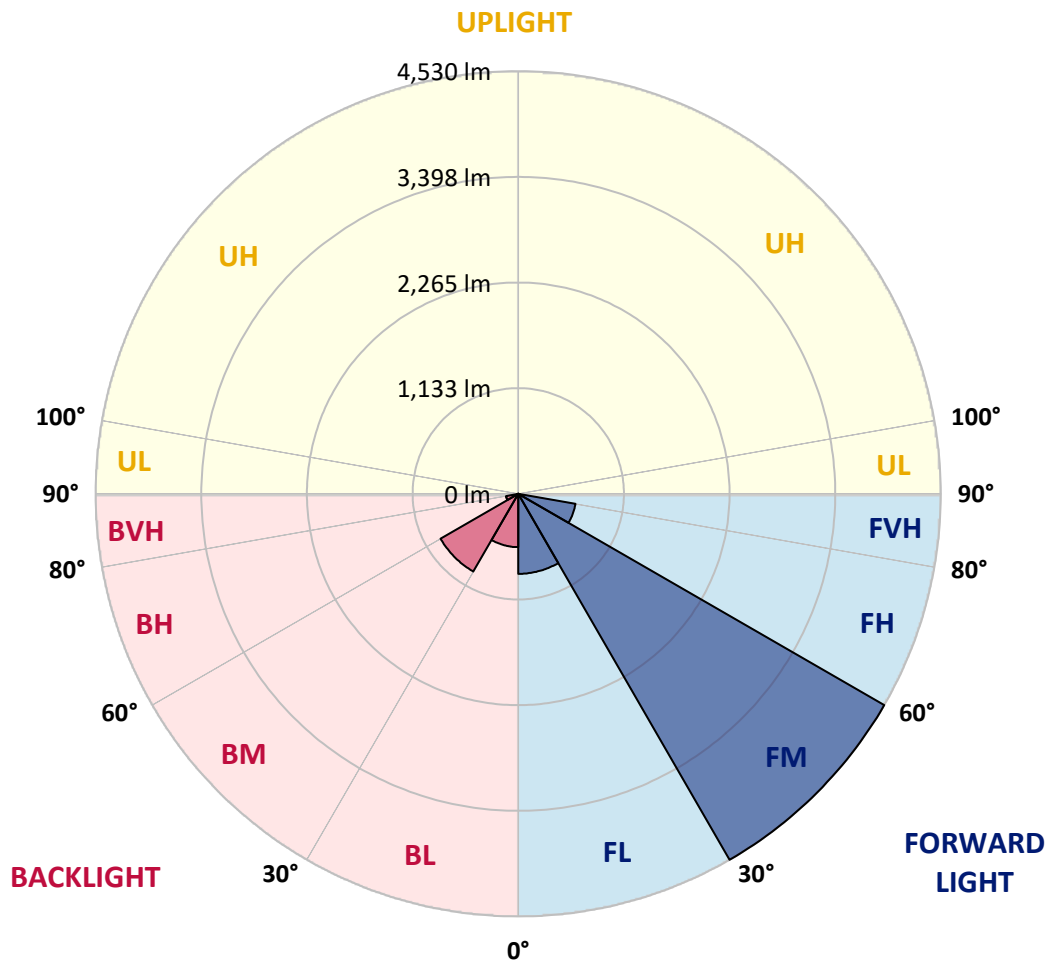
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.9	11.2			
FM (30°-60°)	4530.4	58.9			
FH (60°-80°)	622.5	8.1			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	571.6	7.4	B2/1000		
BM (30°-60°)	961.8	12.5	B1/1000		
BH (60°-80°)	132.9	1.7	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1495.2	1488.2	1488.2	1477.0	1489.6	1484.0	1488.2	1474.2	1488.2	1467.2	1484.0
5°	1502.2	1503.6	1498.0	1505.0	1505.0	1513.4	1499.4	1512.0	1519.0	1503.6	1496.6
7.5°	1538.6	1541.4	1540.0	1534.4	1545.6	1544.2	1542.8	1533.0	1535.8	1530.2	1521.8
10°	1610.0	1608.6	1615.6	1601.6	1593.2	1603.0	1605.8	1590.4	1579.2	1575.0	1548.4
12.5°	1713.6	1696.8	1687.0	1673.0	1677.2	1663.2	1688.4	1661.8	1656.2	1631.0	1604.4
15°	1797.6	1794.8	1796.2	1773.8	1748.6	1754.2	1754.2	1740.2	1731.8	1701.0	1663.2
17.5°	1969.8	1911.0	1923.6	1895.6	1874.6	1873.2	1860.6	1863.4	1841.0	1776.6	1719.2
20°	2104.2	2079.0	2059.4	2011.8	1979.6	1989.4	1983.8	1969.8	1962.8	1878.8	1797.6
22.5°	2224.6	2233.0	2200.8	2188.2	2143.4	2147.6	2158.8	2146.2	2093.0	2006.2	1885.8
25°	2394.0	2384.2	2340.8	2325.4	2283.4	2298.8	2342.2	2332.4	2298.8	2142.0	1954.4
27.5°	2594.2	2560.6	2569.0	2499.0	2458.4	2501.8	2553.6	2602.6	2507.4	2301.6	2035.6
30°	2735.6	2700.6	2697.8	2695.0	2685.2	2735.6	2795.8	2840.6	2763.6	2461.2	2170.0
32.5°	2805.6	2814.0	2837.8	2829.4	2914.8	3018.4	3081.4	3145.8	3049.2	2721.6	2347.8
35°	2991.8	2938.6	2991.8	2997.4	3085.6	3305.4	3385.2	3539.2	3515.4	3089.8	2564.8
37.5°	3101.0	3096.8	3103.8	3157.0	3242.4	3514.0	3627.4	3746.4	3701.6	3311.0	2835.0
40°	3281.6	3292.8	3291.4	3332.0	3425.8	3670.8	3717.0	3813.6	3817.8	3617.6	3232.6
42.5°	3571.4	3526.6	3497.2	3539.2	3670.8	3806.6	3899.0	3879.4	4018.0	3990.0	3743.6
45°	3831.8	3858.4	3815.0	3885.0	3932.6	4005.4	4002.6	4044.6	4221.0	4354.0	4128.6
47.5°	4075.4	4092.2	4113.2	4160.8	4264.4	4275.6	4251.8	4233.6	4477.2	4614.4	4426.8
50°	4221.0	4236.4	4334.4	4419.8	4613.0	4638.2	4652.2	4606.0	4771.2	4786.6	4708.2
52.5°	4181.8	4198.6	4335.8	4617.2	4925.2	5156.2	5114.2	5035.8	5026.0	5086.2	4968.6
55°	3834.6	3819.2	4008.2	4446.4	5023.2	5577.6	5583.2	5500.6	5342.4	5301.8	4929.4
56°	3539.2	3479.0	3719.8	4249.0	4897.2	5541.2	5604.2	5516.0	5367.6	5185.6	4687.2
57.5°	2899.4	2956.8	3196.2	3634.4	4461.8	5279.4	5315.8	5294.8	5182.8	4877.6	4124.4
60°	1598.8	1699.6	1911.0	2447.2	3176.6	4051.6	4081.0	4251.8	4272.8	3735.2	2837.8
62.5°	679.0	667.8	887.6	1282.4	1808.8	2445.8	2500.4	2675.4	2707.6	2153.2	1423.8
65°	275.8	291.2	401.8	645.4	956.2	1114.4	1191.4	1248.8	1355.2	889.0	525.0
67.5°	182.0	180.6	236.6	368.2	515.2	497.0	497.0	525.0	485.8	362.6	226.8
70°	130.2	134.4	169.4	254.8	320.6	238.0	228.2	218.4	247.8	239.4	183.4
72.5°	85.4	91.0	113.4	152.6	166.6	130.2	130.2	156.8	204.4	193.2	149.8
75°	56.0	57.4	70.0	88.2	82.6	67.2	74.2	105.0	148.4	142.8	106.4
77.5°	37.8	39.2	47.6	57.4	46.2	37.8	40.6	53.2	72.8	72.8	56.0
80°	14.0	15.4	19.6	18.2	21.0	26.6	29.4	36.4	43.4	43.4	37.8
82.5°	0.0	1.4	4.2	9.8	15.4	21.0	23.8	28.0	32.2	36.4	35.0
85°	0.0	1.4	4.2	7.0	11.2	12.6	14.0	9.8	8.4	8.4	7.0
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8	1.4	1.4
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°	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6	1468.6
2.5°	1468.6	1467.2	1467.2	1463.0	1471.4	1467.2	1470.0	1468.6	1450.4	1464.4	1454.6
5°	1484.0	1493.8	1478.4	1475.6	1464.4	1468.6	1468.6	1454.6	1467.2	1465.8	1463.0
7.5°	1523.2	1506.4	1489.6	1472.8	1470.0	1465.8	1450.4	1444.8	1454.6	1443.4	1460.2
10°	1540.0	1542.8	1517.6	1495.2	1474.2	1444.8	1423.8	1411.2	1395.8	1412.6	1422.4
12.5°	1617.0	1589.0	1545.6	1510.6	1439.2	1409.8	1388.8	1383.2	1409.8	1415.4	1405.6
15°	1643.6	1639.4	1583.4	1505.0	1430.8	1395.8	1400.0	1388.8	1391.6	1377.6	1380.4
17.5°	1698.2	1650.6	1584.8	1486.8	1429.4	1421.0	1395.8	1351.0	1325.8	1314.6	1324.4
20°	1758.4	1712.2	1617.0	1493.8	1442.0	1419.6	1337.0	1282.4	1230.6	1202.6	1204.0
22.5°	1811.6	1754.2	1603.0	1496.6	1453.2	1360.8	1261.4	1153.6	1089.2	1045.8	1047.2
25°	1876.0	1794.8	1608.6	1502.2	1423.8	1267.0	1124.2	1019.2	942.2	912.8	922.6
27.5°	1912.4	1820.0	1639.4	1514.8	1346.8	1134.0	980.0	882.0	837.2	823.2	821.8
30°	2021.6	1876.0	1677.2	1489.6	1218.0	991.2	848.4	788.2	744.8	732.2	735.0
32.5°	2184.0	1978.2	1726.2	1423.8	1086.4	863.8	763.0	718.2	677.6	653.8	651.0
35°	2319.8	2153.2	1778.0	1321.6	933.8	765.8	702.8	646.8	585.2	558.6	551.6
37.5°	2578.8	2350.6	1766.8	1167.6	788.2	693.0	638.4	569.8	516.6	480.2	476.0
40°	2923.2	2581.6	1712.2	980.0	680.4	628.6	569.8	504.0	438.2	407.4	404.6
42.5°	3341.8	2864.4	1612.8	789.6	572.6	564.2	511.0	435.4	376.6	354.2	355.6
45°	3682.0	3106.6	1512.0	634.2	492.8	501.2	455.0	383.6	343.0	324.8	324.8
47.5°	3984.4	3270.4	1402.8	523.6	418.6	438.2	397.6	355.6	320.6	306.6	303.8
50°	4275.6	3437.0	1293.6	424.2	357.0	376.6	372.4	338.8	310.8	294.0	295.4
52.5°	4457.6	3463.6	1155.0	347.2	312.2	334.6	348.6	317.8	287.0	277.2	274.4
55°	4235.0	3120.6	896.0	285.6	264.6	294.0	320.6	285.6	261.8	245.0	243.6
56°	3935.4	2790.2	749.0	263.2	250.6	282.8	310.8	273.0	246.4	236.6	229.6
57.5°	3332.0	2283.4	553.0	233.8	232.4	263.2	295.4	260.4	229.6	221.2	221.2
60°	2077.6	1285.2	334.6	196.0	201.6	233.8	266.0	232.4	204.4	204.4	208.6
62.5°	946.4	534.8	203.0	166.6	173.6	201.6	236.6	210.0	194.6	210.0	212.8
65°	322.0	231.0	147.0	133.0	137.2	166.6	203.0	212.8	211.4	221.2	226.8
67.5°	180.6	148.4	123.2	110.6	107.8	123.2	166.6	212.8	204.4	200.2	203.0
70°	152.6	126.0	109.2	98.0	93.8	99.4	128.8	161.0	144.2	140.0	137.2
72.5°	123.2	105.0	95.2	88.2	75.6	64.4	58.8	61.6	68.6	72.8	79.8
75°	86.8	79.8	79.8	71.4	54.6	40.6	32.2	26.6	18.2	12.6	14.0
77.5°	49.0	49.0	50.4	43.4	35.0	26.6	19.6	14.0	7.0	2.8	1.4
80°	33.6	36.4	39.2	35.0	29.4	23.8	16.8	9.8	4.2	0.0	0.0
82.5°	33.6	37.8	40.6	35.0	29.4	22.4	16.8	9.8	4.2	1.4	0.0
85°	7.0	8.4	9.8	11.2	16.8	16.8	12.6	8.4	4.2	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
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)