

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: P270136

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11899.4 lumens
Efficiency: N/A
Efficacy: 92.2 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

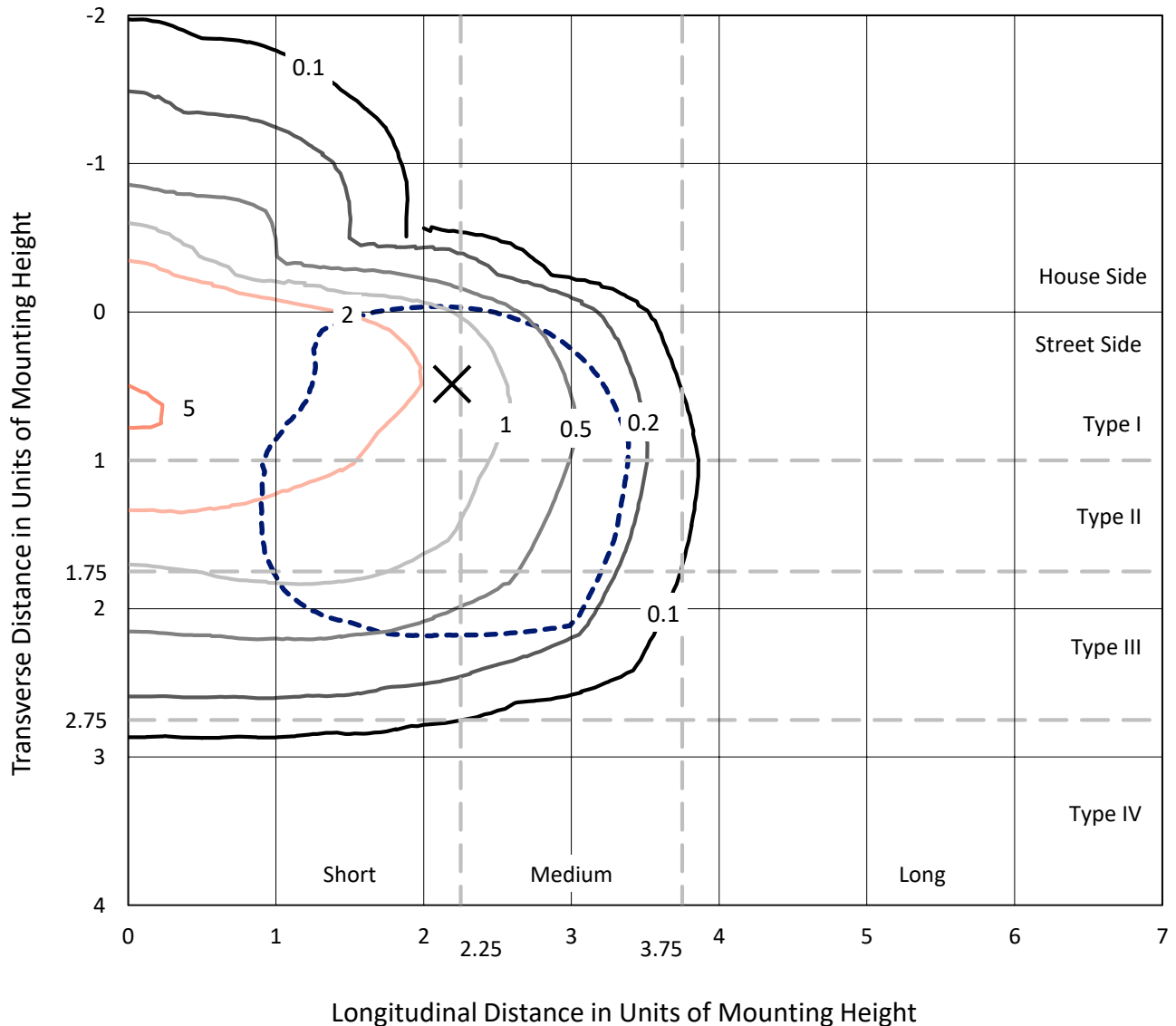
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

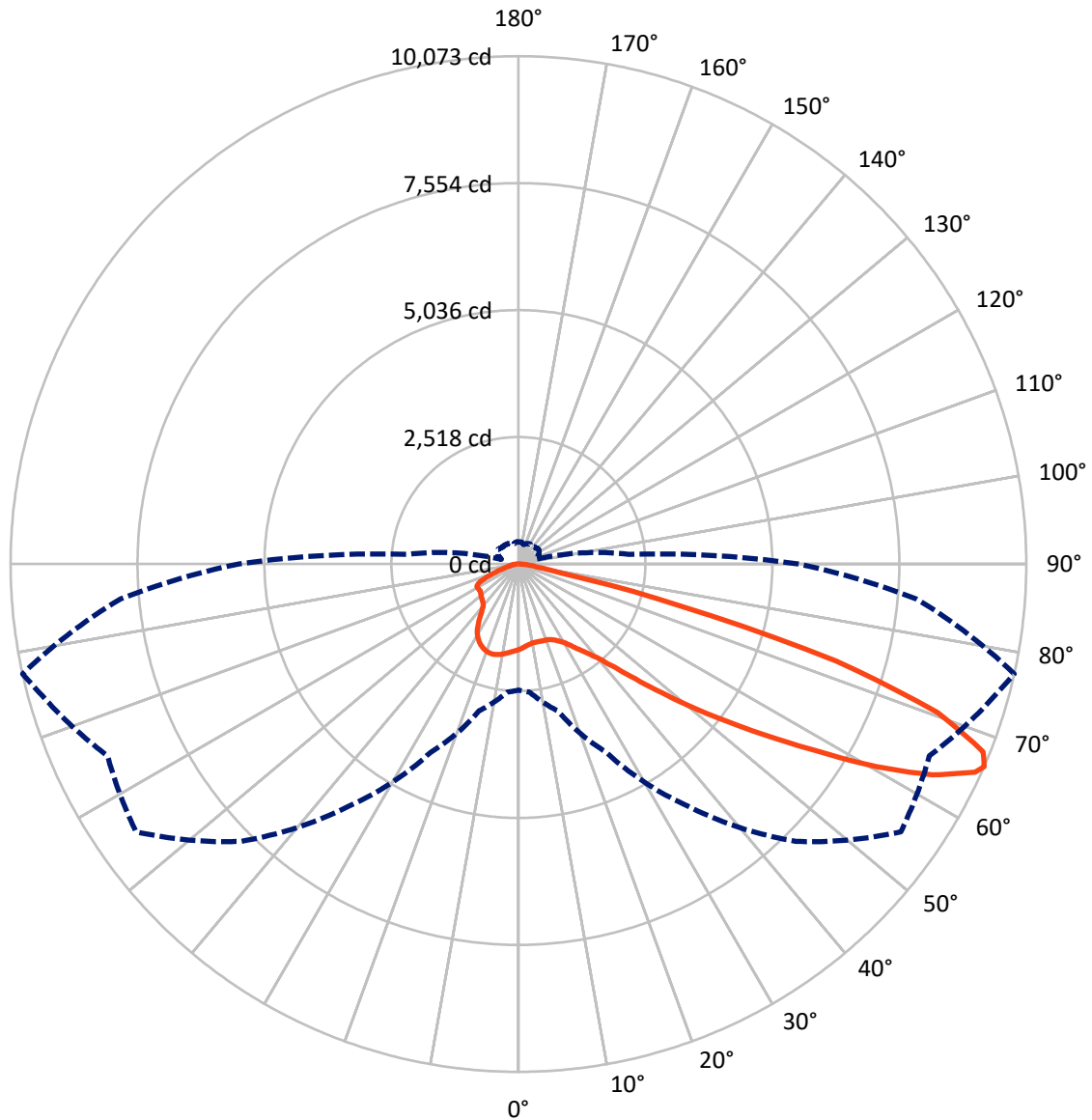
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2032.9	0.0	2032.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9866.5	0.0	9866.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	11899.4	0.0	11899.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.3
10°-20°	427.4	3.6
20°-30°	729.4	6.1
30°-40°	1167.7	9.8
40°-50°	1804.0	15.2
50°-60°	2558.7	21.5
60°-70°	3422.8	28.8
70°-80°	1486.4	12.5
80°-90°	151.6	1.3
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°	11899.4	100.0
0°-180°	11899.4	100.0



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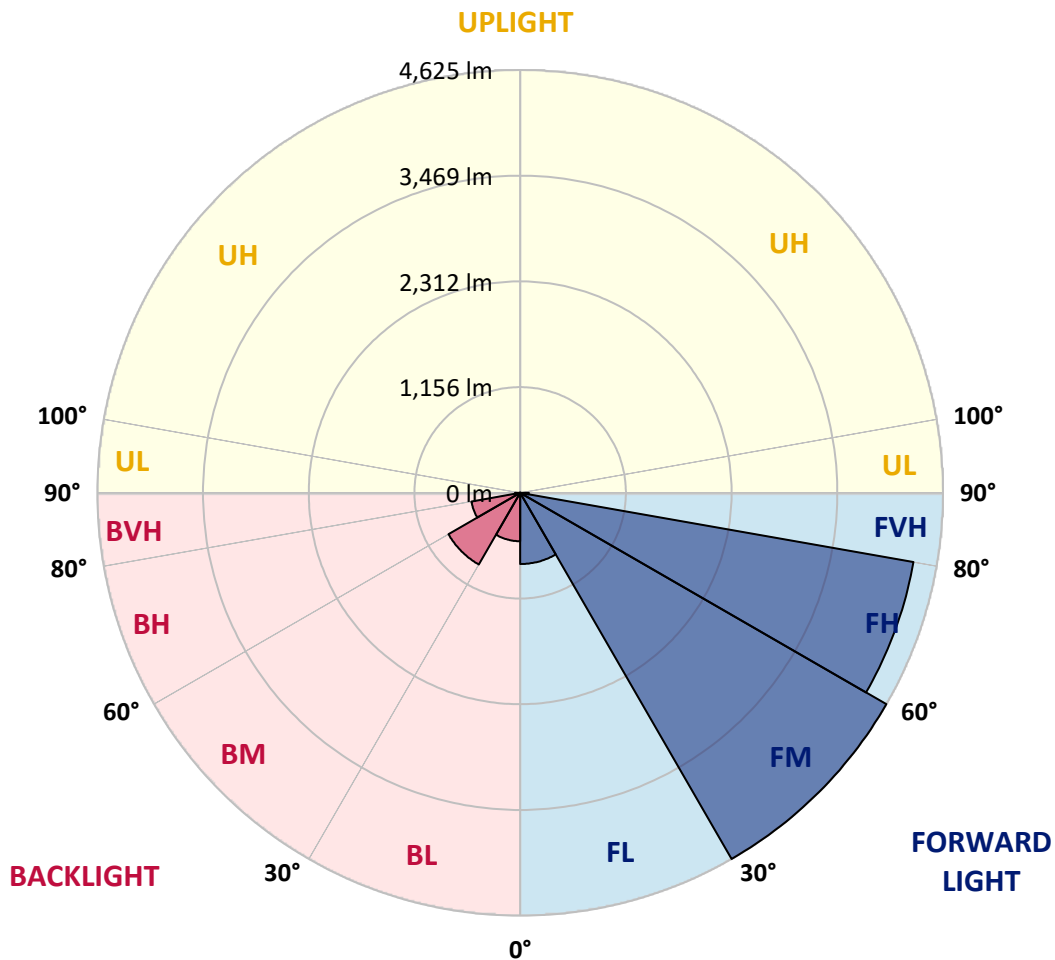
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.9	6.5			
FM	(30°-60°)	4624.8	38.9			
FH	(60°-80°)	4367.8	36.7			G2/5000
FVH	(80°-90°)	95.1	0.8			G1/100
BL	(0°-30°)	529.5	4.4	B2/1000		
BM	(30°-60°)	905.6	7.6	B1/1000		
BH	(60°-80°)	541.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	56.5	0.5			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7
2.5°	1500.1	1510.1	1518.7	1526.5	1542.2	1568.1	1597.9	1622.1	1656.9	1663.7	1682.2
5°	1362.4	1362.4	1369.0	1380.9	1402.3	1441.0	1481.5	1535.5	1611.4	1629.3	1678.8
7.5°	1295.4	1296.0	1299.9	1310.1	1328.6	1364.0	1408.4	1472.0	1574.8	1604.6	1689.0
10°	1320.1	1314.5	1306.1	1301.0	1303.8	1324.6	1366.8	1437.6	1552.4	1590.5	1711.5
12.5°	1458.5	1447.7	1418.5	1379.7	1342.7	1327.4	1352.2	1421.3	1542.7	1587.2	1741.3
15°	1684.5	1680.0	1625.5	1545.0	1455.1	1379.7	1362.8	1415.1	1543.9	1591.2	1776.7
17.5°	1967.9	1961.6	1889.8	1772.7	1626.0	1479.3	1400.5	1420.2	1547.9	1597.9	1811.0
20°	2254.1	2234.9	2157.3	2017.9	1829.6	1614.8	1463.0	1433.2	1552.9	1605.2	1847.0
22.5°	2467.7	2451.9	2382.2	2246.8	2029.7	1771.6	1546.7	1455.7	1569.2	1626.6	1891.4
25°	2655.5	2656.6	2587.4	2456.4	2232.1	1938.1	1654.7	1515.8	1610.8	1670.4	1952.1
27.5°	2887.7	2874.2	2809.5	2679.6	2432.3	2106.2	1785.2	1598.4	1672.6	1732.8	2032.0
30°	3165.4	3155.9	3081.1	2933.8	2654.4	2286.7	1934.1	1694.6	1752.5	1814.8	2136.5
32.5°	3492.1	3487.7	3410.1	3220.6	2910.8	2499.2	2109.0	1821.7	1871.7	1936.4	2286.7
35°	3875.6	3876.1	3784.4	3556.7	3191.3	2746.6	2307.4	1985.3	2016.7	2084.2	2465.5
37.5°	4111.7	4140.4	4106.1	3873.9	3509.0	3023.2	2564.9	2202.4	2182.1	2250.1	2657.2
40°	4162.2	4197.2	4305.7	4187.6	3864.3	3328.0	2793.2	2410.9	2385.5	2468.8	2904.0
42.5°	4091.4	4139.7	4369.2	4452.4	4241.5	3703.4	3100.2	2720.7	2688.6	2800.6	3211.0
45°	4049.3	4085.2	4350.7	4590.2	4568.9	4128.0	3491.0	3109.8	3097.9	3244.7	3565.2
47.5°	3976.3	4008.9	4264.1	4622.2	4761.1	4517.0	3960.4	3585.5	3608.5	3800.7	3964.9
50°	4015.6	4029.0	4167.3	4540.7	4816.7	4802.2	4485.0	4136.4	4215.1	4455.1	4417.5
52.5°	4009.9	4044.8	4156.1	4406.8	4824.1	4978.1	5001.8	4751.0	4916.9	5192.3	4919.7
55°	3241.9	3305.9	4024.0	4373.1	4849.9	5150.7	5461.6	5398.7	5707.9	6029.0	5486.4
57.5°	3095.7	3136.3	3534.2	4444.0	4987.1	5480.2	5973.3	6111.6	6628.9	7001.6	6176.8
60°	3067.1	3117.1	3529.2	4530.5	5265.4	6017.2	6731.7	6974.7	7749.4	8157.6	6977.5
62.5°	2977.6	3031.6	3496.0	4519.4	5660.7	6759.9	7702.8	7892.2	8812.0	9209.0	7647.1
65°	2694.2	2744.9	3225.5	4337.7	5927.1	7552.6	8852.0	8733.3	9650.9	9949.5	7981.0
66°	2500.3	2549.8	3012.6	4124.0	5865.3	7777.5	9259.0	8993.7	9838.7	10072.6	7915.8
67.5°	2145.5	2184.3	2598.7	3645.6	5536.3	7840.5	9601.4	9189.3	9858.4	9941.0	7543.1
70°	1355.6	1366.8	1689.0	2516.6	4191.0	6799.7	9080.2	8703.5	9045.3	8821.6	6323.6
72.5°	588.0	584.3	810.7	1280.3	2372.7	4562.6	7345.2	7181.5	7095.4	6584.9	4426.5
75°	327.2	331.7	421.1	594.2	964.2	2241.2	4804.9	4598.1	3882.3	3312.7	2007.2
77.5°	262.6	268.7	349.2	421.7	432.9	781.5	2248.4	1829.6	1101.5	883.9	557.8
80°	207.4	218.7	304.7	328.3	291.8	322.1	726.5	580.8	435.8	399.7	289.0
82.5°	164.2	172.0	261.5	248.6	204.1	217.0	348.0	339.0	283.4	258.1	167.0
85°	118.1	132.7	214.8	187.2	133.8	146.2	231.0	221.5	162.5	132.7	73.7
87.5°	48.3	63.0	151.8	124.2	74.7	68.0	115.3	108.5	77.0	56.2	36.6
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°	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7	1695.7
2.5°	1694.1	1707.5	1724.9	1735.7	1741.3	1745.2	1751.4	1750.8	1752.5	1753.0	1755.4
5°	1705.3	1727.7	1753.0	1759.8	1759.8	1753.6	1747.5	1737.3	1733.5	1732.3	1733.5
7.5°	1734.5	1759.3	1781.2	1773.3	1756.4	1731.7	1699.7	1671.6	1656.4	1651.4	1650.2
10°	1771.6	1801.5	1810.4	1780.6	1731.1	1671.6	1608.1	1561.9	1535.5	1528.2	1525.9
12.5°	1816.6	1844.7	1832.4	1769.3	1677.8	1581.6	1493.9	1420.2	1365.2	1347.7	1346.6
15°	1866.1	1888.0	1844.7	1734.5	1597.9	1456.2	1299.9	1172.8	1104.3	1082.4	1080.7
17.5°	1912.2	1923.5	1837.5	1673.8	1480.4	1251.0	1043.5	945.7	922.1	927.7	928.8
20°	1951.6	1951.6	1812.7	1586.7	1295.4	980.6	849.5	847.9	864.7	881.6	884.9
22.5°	1994.8	1969.0	1769.3	1463.5	1033.4	802.4	783.1	799.0	818.1	836.6	839.4
25°	2048.3	1983.0	1709.2	1276.9	812.4	728.6	736.0	748.9	758.4	770.2	772.0
27.5°	2107.9	2001.0	1629.9	1019.9	705.0	682.5	688.2	692.7	691.6	696.0	697.2
30°	2179.3	2021.8	1521.5	797.2	660.6	643.2	633.1	629.2	629.2	636.4	639.3
32.5°	2274.8	2052.7	1365.6	683.1	639.3	615.1	582.5	567.9	573.5	598.2	603.9
35°	2380.0	2085.9	1154.9	644.4	634.7	602.1	551.6	524.6	525.1	548.2	555.4
37.5°	2494.7	2128.1	923.7	637.0	644.9	602.8	535.3	498.1	483.0	483.0	485.8
40°	2641.5	2171.4	747.7	642.1	666.2	609.5	526.8	477.3	434.6	435.8	437.9
42.5°	2832.6	2208.6	653.3	652.7	692.1	618.5	526.2	449.8	412.7	437.9	461.0
45°	3045.2	2227.1	611.7	662.4	712.9	624.1	517.2	445.3	415.5	490.8	534.8
47.5°	3289.7	2216.4	588.7	665.7	717.9	624.1	507.1	456.0	435.1	568.4	619.7
50°	3557.8	2185.5	566.2	659.0	716.3	623.0	516.7	466.7	442.5	581.9	617.3
52.5°	3873.3	2159.6	542.6	644.4	704.5	616.9	527.9	462.2	419.4	529.0	553.8
55°	4233.2	2166.9	516.1	623.5	685.9	604.9	524.0	444.2	395.3	466.1	481.2
57.5°	4693.0	2254.1	484.6	597.1	660.6	585.2	509.9	435.8	388.0	422.8	431.7
60°	5206.4	2405.8	445.3	570.7	629.2	553.8	499.3	439.7	391.3	419.4	423.9
62.5°	5583.1	2494.1	411.6	531.9	586.4	519.0	485.8	444.7	400.3	431.3	430.1
65°	5685.5	2349.0	369.5	475.1	528.6	482.4	468.9	450.4	404.2	440.8	435.8
66°	5542.1	2192.7	350.8	448.6	499.3	464.4	460.6	449.8	402.5	441.9	433.5
67.5°	5194.1	1872.2	318.8	409.9	452.6	437.5	447.0	444.7	398.1	440.8	428.9
70°	4236.0	1277.5	272.6	341.3	376.7	385.2	421.1	426.8	383.4	421.1	395.3
72.5°	2959.6	778.1	241.2	264.8	304.7	328.3	385.7	402.1	363.7	367.7	343.0
75°	1430.4	413.2	218.7	205.3	236.7	274.4	343.0	368.3	332.9	307.6	298.5
77.5°	445.8	252.4	185.5	165.3	185.5	221.5	286.7	322.8	296.3	257.5	254.1
80°	239.5	185.5	142.8	132.7	146.8	173.7	225.5	269.3	254.8	231.0	206.3
82.5°	157.9	120.3	105.7	102.9	111.9	132.7	167.6	223.1	223.1	197.9	144.0
85°	81.6	73.7	72.6	72.6	78.2	88.3	114.2	172.0	183.3	104.6	86.5
87.5°	40.5	42.1	39.3	41.0	43.9	43.3	54.5	86.5	103.4	63.5	52.9
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)