

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: P200042

Luminaire Tested: **GWC-AF-02-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200042
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 13246.5 lumens
Efficiency: N/A
Efficacy: 102.7 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

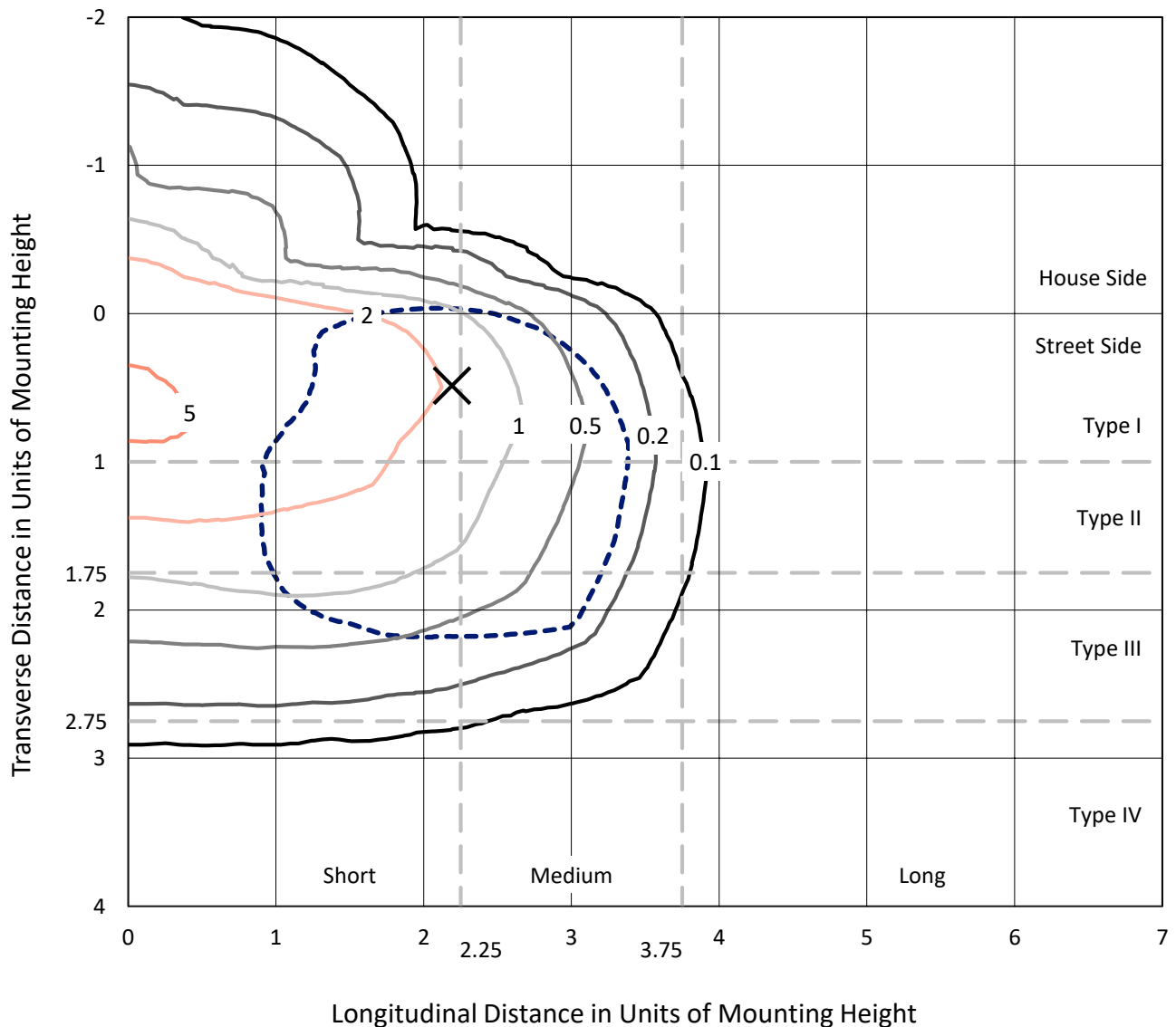
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200042
 CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

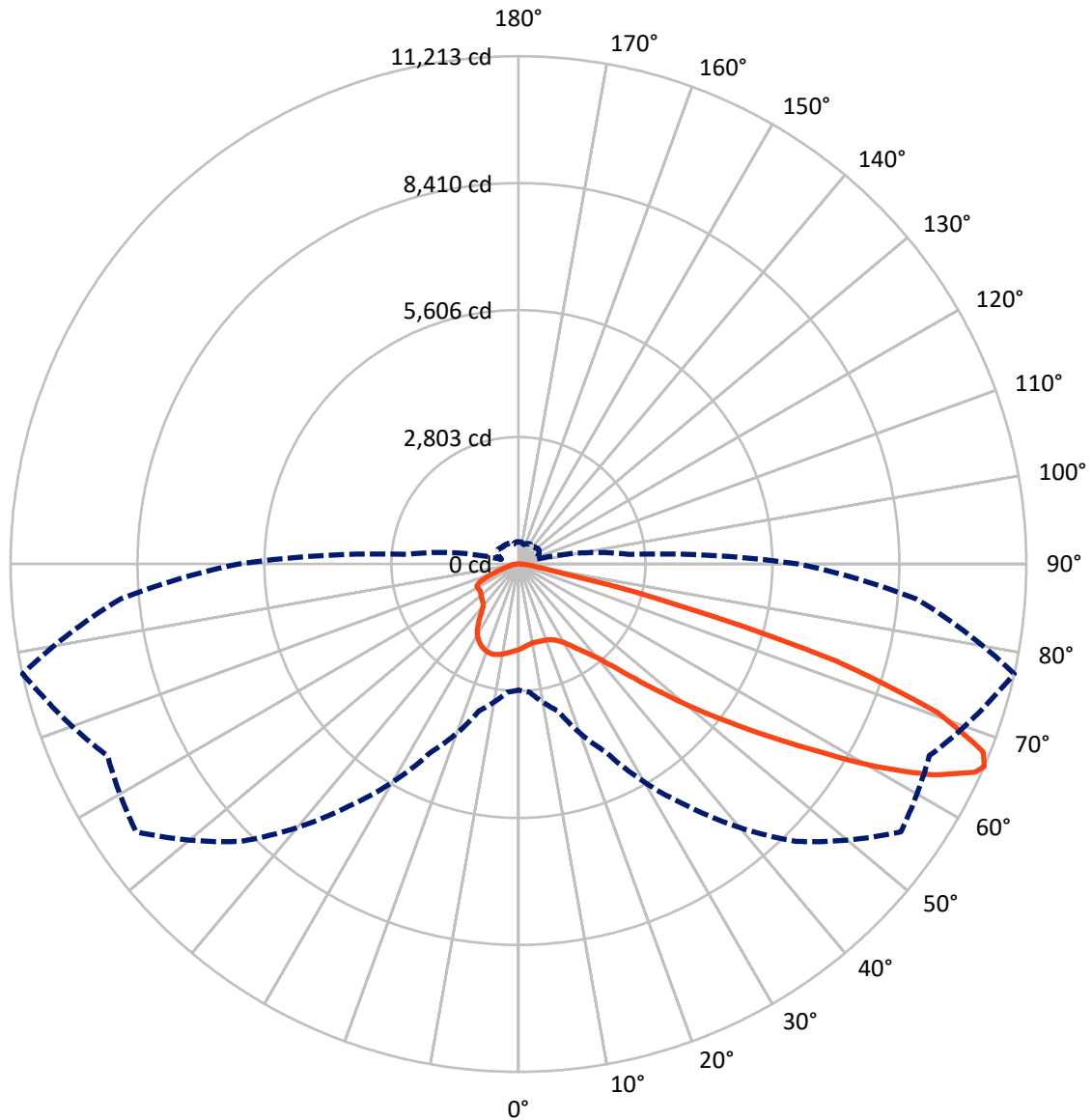
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P200042
CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7030-1200

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.1	0.0	2263.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10983.5	0.0	10983.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	13246.5	0.0	13246.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	1.3
10°-20°	475.8	3.6
20°-30°	812.0	6.1
30°-40°	1299.9	9.8
40°-50°	2008.2	15.2
50°-60°	2848.3	21.5
60°-70°	3810.3	28.8
70°-80°	1654.7	12.5
80°-90°	168.7	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°	13246.5	100.0
0°-180°	13246.5	100.0



REPORT NUMBER: P200042

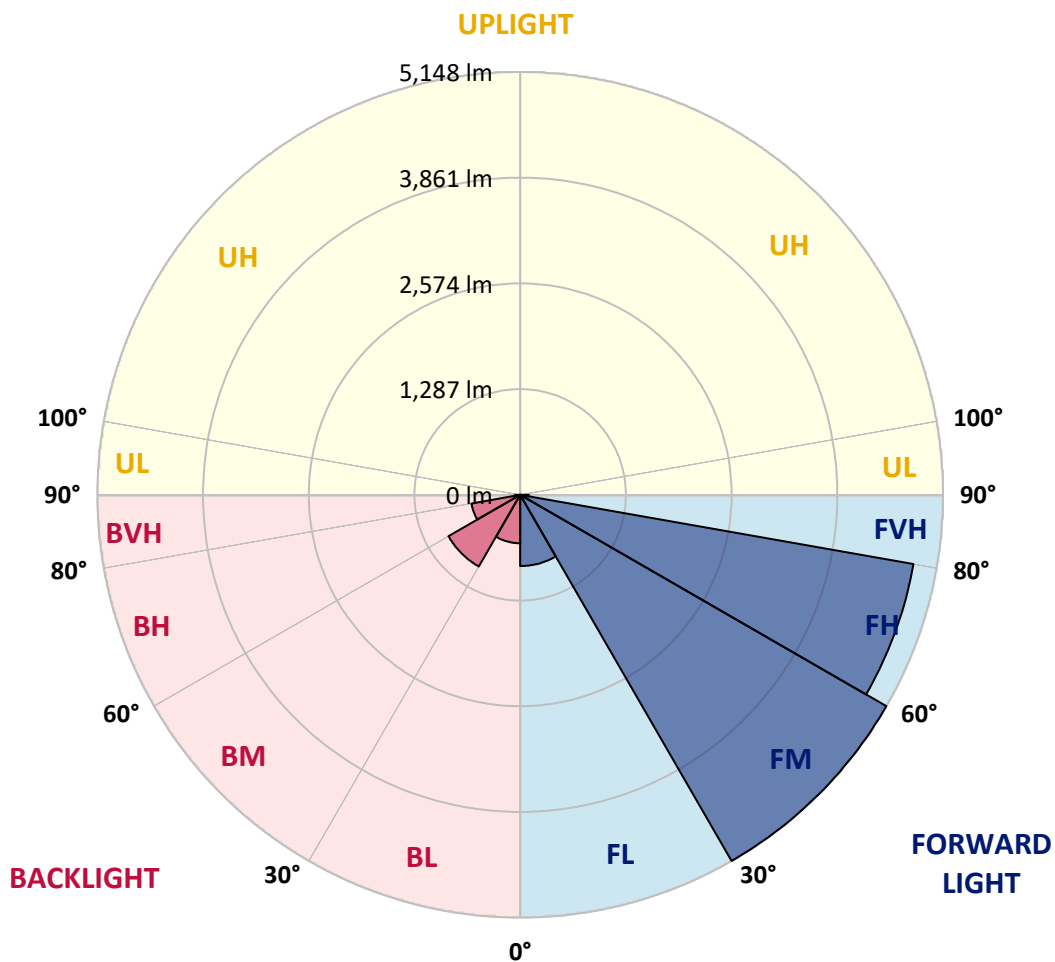
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.0	6.5			
FM	(30°-60°)	5148.3	38.9			
FH	(60°-80°)	4862.3	36.7			G2/5000
FVH	(80°-90°)	105.8	0.8			G2/225
BL	(0°-30°)	589.4	4.4	B2/1000		
BM	(30°-60°)	1008.1	7.6	B2/2500		
BH	(60°-80°)	602.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	62.9	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





REPORT NUMBER: P200042

CATALOG NUMBER: GWC-AF-02-LED-E1-T3R-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7
2.5°	1669.9	1681.1	1690.6	1699.3	1716.8	1745.6	1778.8	1805.7	1844.5	1852.0	1872.6
5°	1516.6	1516.6	1524.0	1537.2	1561.0	1604.1	1649.2	1709.3	1793.8	1813.8	1868.9
7.5°	1442.1	1442.7	1447.1	1458.4	1479.0	1518.4	1567.8	1638.6	1753.1	1786.3	1880.2
10°	1469.5	1463.3	1454.0	1448.3	1451.4	1474.6	1521.5	1600.4	1728.1	1770.6	1905.2
12.5°	1623.6	1611.6	1579.1	1535.9	1494.7	1477.7	1505.3	1582.2	1717.4	1766.9	1938.4
15°	1875.2	1870.2	1809.5	1719.9	1619.8	1535.9	1517.1	1575.3	1718.7	1771.3	1977.8
17.5°	2190.7	2183.7	2103.7	1973.4	1810.1	1646.8	1559.1	1581.0	1723.1	1778.8	2016.0
20°	2509.3	2487.9	2401.5	2246.3	2036.7	1797.6	1628.6	1595.4	1728.7	1786.9	2056.1
22.5°	2747.1	2729.5	2651.9	2501.1	2259.5	1972.2	1721.8	1620.5	1746.9	1810.7	2105.5
25°	2956.1	2957.4	2880.3	2734.5	2484.8	2157.5	1842.0	1687.4	1793.2	1859.5	2173.1
27.5°	3214.6	3199.6	3127.6	2983.0	2707.6	2344.6	1987.3	1779.4	1862.0	1929.0	2262.0
30°	3523.8	3513.2	3429.9	3265.9	2954.9	2545.6	2153.1	1886.4	1950.9	2020.3	2378.4
32.5°	3887.4	3882.5	3796.1	3585.2	3240.3	2782.1	2347.7	2027.9	2083.6	2155.6	2545.6
35°	4314.3	4314.9	4212.8	3959.4	3552.6	3057.5	2568.6	2210.0	2245.0	2320.2	2744.6
37.5°	4577.2	4609.1	4570.9	4312.4	3906.2	3365.4	2855.3	2451.7	2429.1	2504.8	2958.0
40°	4633.4	4672.3	4793.1	4661.7	4301.8	3704.7	3109.4	2683.8	2655.6	2748.3	3232.7
42.5°	4554.6	4608.4	4863.8	4956.4	4721.7	4122.7	3451.2	3028.7	2993.0	3117.6	3574.5
45°	4507.7	4547.7	4843.2	5109.8	5086.1	4595.3	3886.2	3461.8	3448.6	3612.0	3968.8
47.5°	4426.4	4462.7	4746.8	5145.5	5300.1	5028.4	4408.8	3991.4	4017.0	4231.0	4413.8
50°	4470.2	4485.1	4639.1	5054.7	5362.0	5345.8	4992.7	4604.7	4692.3	4959.5	4917.6
52.5°	4463.9	4502.7	4626.6	4905.7	5370.2	5541.7	5568.0	5288.8	5473.5	5780.1	5476.6
55°	3608.9	3680.2	4479.5	4868.2	5398.9	5733.8	6079.9	6009.9	6354.1	6711.5	6107.5
57.5°	3446.2	3491.3	3934.3	4947.1	5551.7	6100.6	6649.5	6803.5	7379.3	7794.2	6876.1
60°	3414.3	3470.0	3928.7	5043.4	5861.5	6698.4	7493.8	7764.3	8626.7	9081.1	7767.4
62.5°	3314.7	3374.8	3891.8	5031.0	6301.5	7525.2	8574.8	8785.7	9809.6	10251.5	8512.8
65°	2999.2	3055.6	3590.7	4828.8	6598.1	8407.6	9854.1	9722.0	10743.4	11075.9	8884.5
66°	2783.4	2838.5	3353.6	4590.9	6529.3	8658.0	10307.2	10011.8	10952.5	11212.9	8811.9
67.5°	2388.4	2431.6	2892.9	4058.3	6163.1	8728.1	10688.4	10229.6	10974.5	11066.4	8397.0
70°	1509.1	1521.5	1880.2	2801.5	4665.5	7569.5	10108.2	9688.8	10069.3	9820.3	7039.5
72.5°	654.6	650.4	902.5	1425.2	2641.3	5079.1	8176.7	7994.5	7898.7	7330.4	4927.6
75°	364.2	369.3	468.8	661.5	1073.4	2494.9	5348.9	5118.6	4321.8	3687.7	2234.4
77.5°	292.3	299.1	388.7	469.4	481.9	870.0	2502.9	2036.7	1226.2	984.0	620.9
80°	230.9	243.5	339.2	365.5	324.8	358.6	808.7	646.6	485.1	445.0	321.7
82.5°	182.8	191.5	291.1	276.7	227.2	241.6	387.4	377.4	315.5	287.3	185.9
85°	131.5	147.7	239.1	208.4	149.0	162.7	257.2	246.6	180.9	147.7	82.0
87.5°	53.8	70.1	169.0	138.3	83.2	75.7	128.4	120.8	85.7	62.6	40.7
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°	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7	1887.7
2.5°	1885.9	1900.8	1920.2	1932.2	1938.4	1942.8	1949.7	1949.0	1950.9	1951.5	1954.1
5°	1898.3	1923.3	1951.5	1959.0	1959.0	1952.1	1945.3	1934.0	1929.7	1928.4	1929.7
7.5°	1930.9	1958.5	1982.8	1974.0	1955.2	1927.7	1892.1	1860.8	1843.9	1838.3	1837.0
10°	1972.2	2005.4	2015.4	1982.2	1927.1	1860.8	1790.1	1738.7	1709.3	1701.2	1698.6
12.5°	2022.3	2053.5	2039.8	1969.6	1867.7	1760.6	1663.0	1581.0	1519.7	1500.3	1499.0
15°	2077.4	2101.7	2053.5	1930.9	1778.8	1621.1	1447.1	1305.6	1229.3	1204.9	1203.0
17.5°	2128.7	2141.2	2045.5	1863.3	1648.0	1392.6	1161.6	1052.8	1026.5	1032.7	1034.0
20°	2172.5	2172.5	2017.9	1766.3	1442.1	1091.6	945.7	943.9	962.6	981.4	985.1
22.5°	2220.6	2191.9	1969.6	1629.2	1150.4	893.2	871.8	889.4	910.7	931.3	934.4
25°	2280.2	2207.5	1902.7	1421.4	904.4	811.1	819.3	833.7	844.3	857.4	859.4
27.5°	2346.5	2227.5	1814.4	1135.4	784.8	759.8	766.1	771.1	769.9	774.8	776.1
30°	2426.0	2250.7	1693.7	887.5	735.4	716.0	704.8	700.4	700.4	708.5	711.7
32.5°	2532.3	2285.1	1520.2	760.4	711.7	684.7	648.4	632.2	638.4	665.9	672.3
35°	2649.4	2322.0	1285.6	717.3	706.6	670.3	614.0	584.0	584.6	610.3	618.3
37.5°	2777.1	2369.0	1028.3	709.1	717.9	671.0	595.9	554.5	537.7	537.7	540.8
40°	2940.5	2417.2	832.4	714.8	741.6	678.5	586.4	531.3	483.8	485.1	487.5
42.5°	3153.3	2458.6	727.3	726.6	770.4	688.5	585.8	500.7	459.4	487.5	513.2
45°	3389.9	2479.2	681.0	737.4	793.6	694.7	575.8	495.7	462.5	546.4	595.3
47.5°	3662.1	2467.3	655.3	741.1	799.2	694.7	564.5	507.6	484.4	632.7	689.8
50°	3960.6	2432.9	630.3	733.6	797.4	693.5	575.2	519.5	492.6	647.8	687.2
52.5°	4311.8	2404.1	604.0	717.3	784.3	686.7	587.7	514.5	466.9	588.9	616.5
55°	4712.4	2412.2	574.5	694.1	763.6	673.4	583.3	494.5	440.0	518.9	535.7
57.5°	5224.3	2509.3	539.5	664.7	735.4	651.5	567.6	485.1	431.9	470.7	480.6
60°	5795.8	2678.2	495.7	635.3	700.4	616.5	555.8	489.5	435.6	466.9	471.9
62.5°	6215.1	2776.5	458.2	592.1	652.8	577.7	540.8	495.0	445.6	480.1	478.8
65°	6329.1	2614.9	411.3	528.9	588.4	537.0	522.0	501.4	450.0	490.7	485.1
66°	6169.5	2440.9	390.5	499.4	555.8	517.0	512.7	500.7	448.1	491.9	482.6
67.5°	5782.1	2084.2	354.9	456.3	503.8	487.0	497.6	495.0	443.2	490.7	477.5
70°	4715.5	1422.1	303.5	379.9	419.3	428.8	468.8	475.1	426.8	468.8	440.0
72.5°	3294.7	866.2	268.5	294.8	339.2	365.5	429.4	447.6	404.9	409.3	381.8
75°	1592.3	460.0	243.5	228.5	263.5	305.5	381.8	410.0	370.6	342.4	332.3
77.5°	496.3	281.0	206.5	184.0	206.5	246.6	319.2	359.3	329.8	286.7	282.9
80°	266.6	206.5	159.0	147.7	163.4	193.4	251.0	299.8	283.6	257.2	229.7
82.5°	175.8	133.9	117.7	114.5	124.6	147.7	186.6	248.4	248.4	220.3	160.3
85°	90.8	82.0	80.8	80.8	87.0	98.3	127.1	191.5	204.1	116.4	96.3
87.5°	45.1	46.9	43.8	45.6	48.9	48.2	60.7	96.3	115.1	70.7	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

(END OF REPORT)