

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: P199994

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12523.3 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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

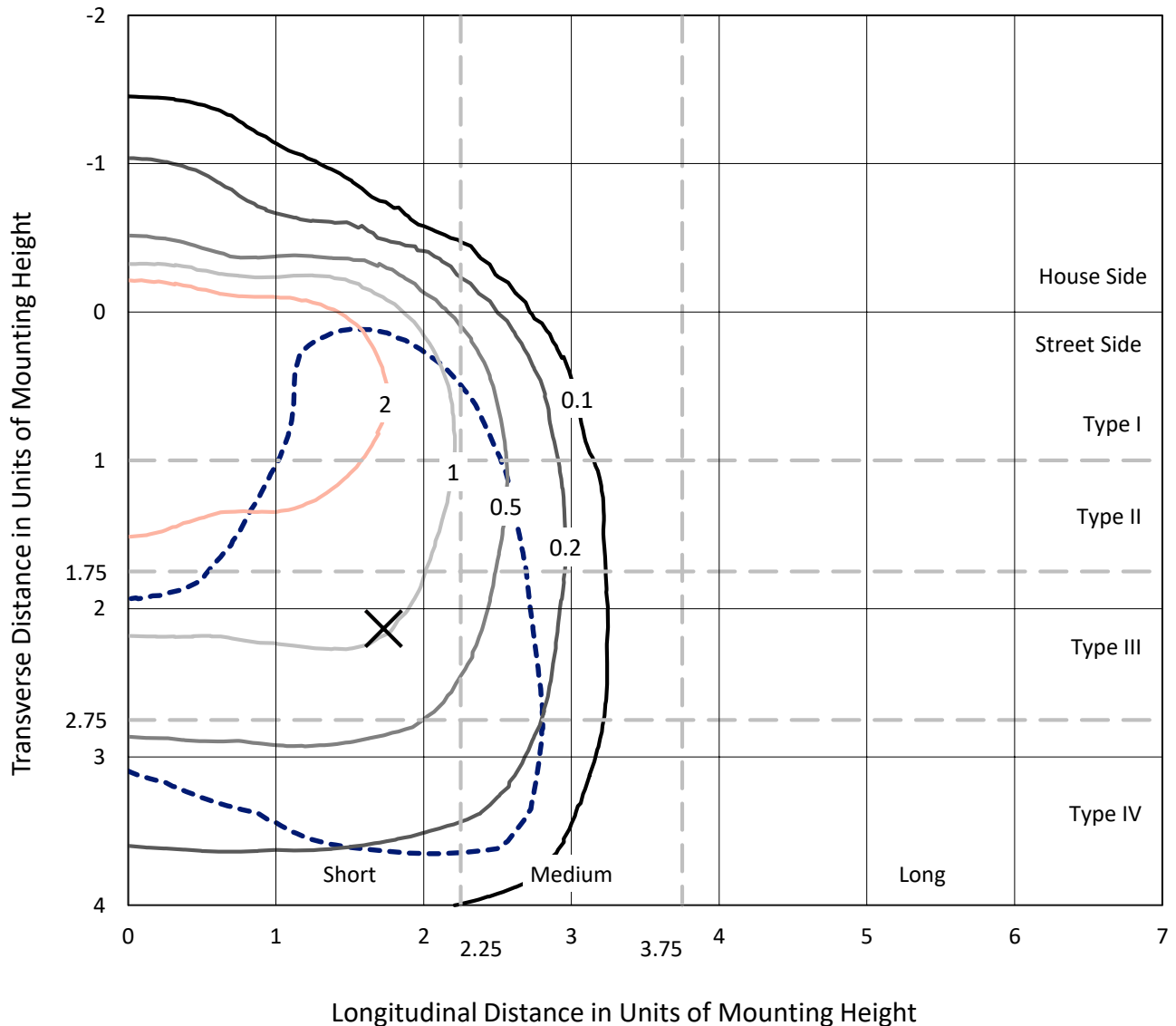


REPORT NUMBER: P199994

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

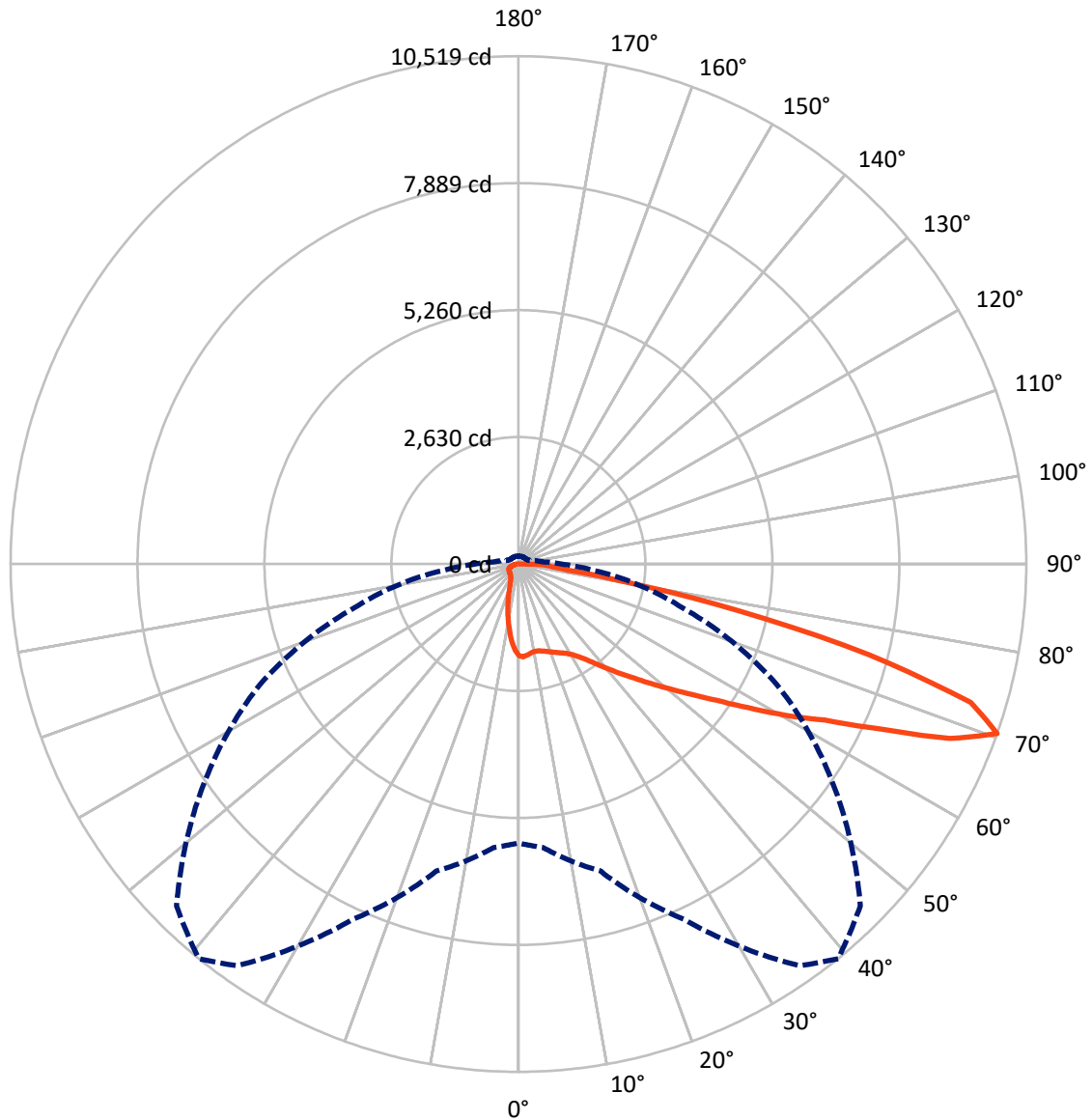
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P199994
CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.3	0.0	1424.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11099.0	0.0	11099.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	12523.3	0.0	12523.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.3
10°-20°	407.8	3.3
20°-30°	635.0	5.1
30°-40°	989.3	7.9
40°-50°	1660.8	13.3
50°-60°	2638.3	21.1
60°-70°	3519.2	28.1
70°-80°	2125.2	17.0
80°-90°	384.6	3.1
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°	12523.3	100.0
0°-180°	12523.3	100.0



REPORT NUMBER: P199994

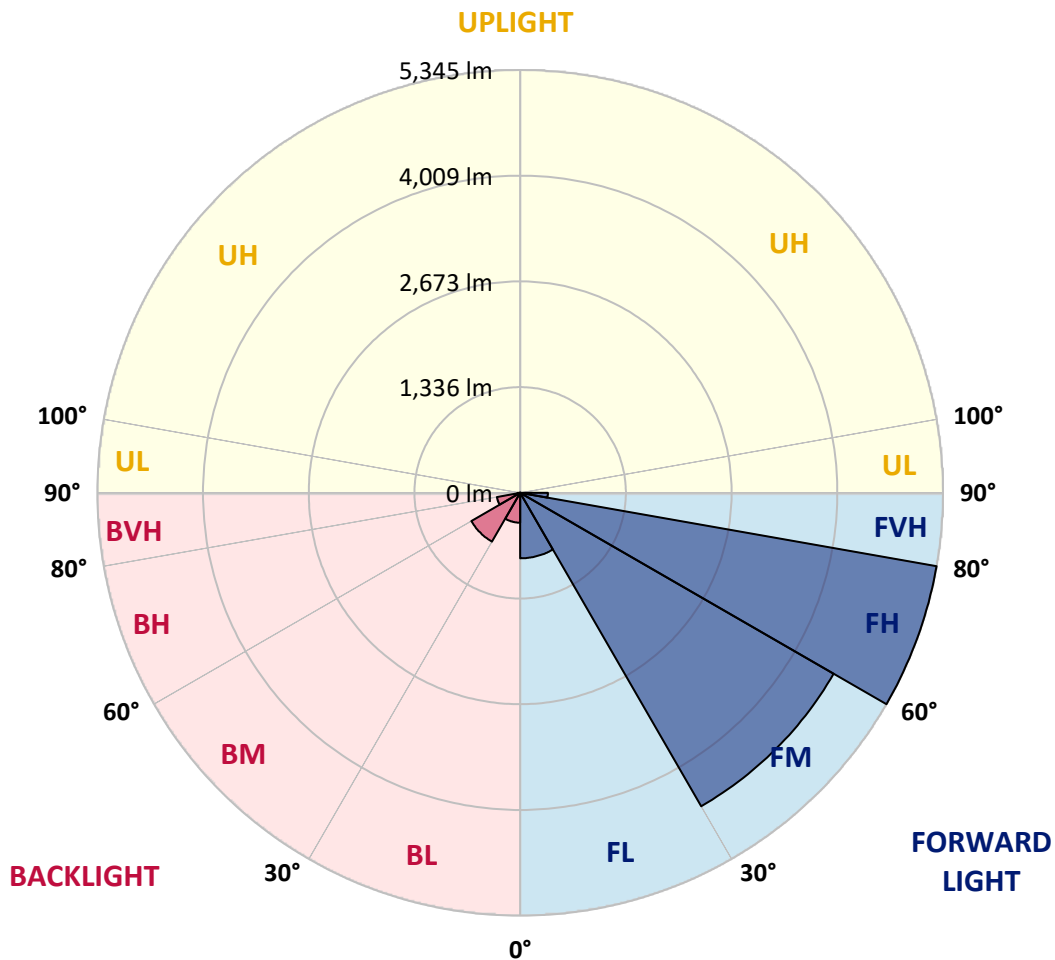
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.2	6.6			
FM	(30°-60°)	4575.5	36.5			
FH	(60°-80°)	5345.3	42.7			G3/7500
FVH	(80°-90°)	350.0	2.8			G3/500
BL	(0°-30°)	377.8	3.0	B1/500		
BM	(30°-60°)	712.8	5.7	B1/1000		
BH	(60°-80°)	299.0	2.4	B1/500		G1/500
BVH	(80°-90°)	34.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P199994

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	1938.2	1937.5	1932.5	1928.7	1925.4	1924.2	1926.7	1917.2	1908.9	1898.7	1887.9
5°	1923.5	1922.9	1914.5	1907.0	1899.4	1896.7	1896.0	1878.9	1868.8	1853.5	1833.2
7.5°	1907.5	1904.4	1893.6	1880.9	1867.5	1861.1	1854.7	1832.5	1821.1	1805.7	1782.1
10°	1891.1	1887.2	1877.1	1864.3	1851.6	1842.0	1831.1	1809.6	1797.5	1786.0	1758.6
12.5°	1873.9	1870.6	1868.2	1862.5	1853.5	1845.2	1836.9	1818.5	1805.7	1792.4	1760.5
15°	1871.3	1870.1	1875.8	1879.6	1874.5	1869.4	1860.4	1844.6	1831.1	1817.8	1776.4
17.5°	1891.8	1891.1	1905.7	1915.9	1913.3	1904.4	1892.4	1874.5	1863.6	1852.2	1800.6
20°	1936.3	1939.5	1957.3	1970.6	1957.9	1945.2	1925.4	1900.6	1894.9	1889.7	1825.5
22.5°	2020.3	2023.5	2036.3	2041.3	2008.1	1989.7	1962.4	1930.5	1926.7	1930.5	1855.4
25°	2151.5	2148.2	2146.4	2127.3	2066.7	2038.1	2003.2	1970.0	1971.9	1989.1	1897.4
27.5°	2325.2	2308.1	2281.4	2224.1	2128.0	2096.0	2053.4	2022.8	2035.0	2068.1	1960.4
30°	2505.5	2486.4	2424.6	2331.0	2208.1	2173.0	2125.3	2091.0	2122.8	2175.1	2044.5
32.5°	2672.3	2669.8	2579.3	2459.0	2318.9	2288.3	2240.6	2201.8	2253.4	2332.9	2170.6
35°	2854.4	2860.1	2751.9	2607.4	2468.5	2436.7	2402.3	2373.0	2441.8	2551.3	2353.3
37.5°	3049.2	3060.7	2932.7	2769.7	2639.1	2625.8	2605.4	2592.7	2699.0	2850.6	2608.7
40°	3309.7	3298.2	3120.6	2953.1	2848.7	2848.1	2841.7	2856.9	3033.9	3241.5	2936.6
42.5°	3588.5	3554.7	3319.9	3149.8	3078.5	3100.1	3112.9	3175.3	3437.0	3716.5	3336.3
45°	3889.1	3813.2	3526.8	3358.1	3333.8	3379.7	3423.0	3558.6	3911.4	4257.1	3774.5
47.5°	4129.1	4055.9	3740.7	3576.4	3629.3	3698.7	3782.1	3996.7	4442.4	4815.5	4206.8
50°	4318.3	4270.4	3956.5	3831.0	3954.6	4061.6	4197.8	4492.6	4995.0	5359.2	4607.3
52.5°	4501.6	4466.0	4174.2	4092.2	4336.7	4484.4	4669.6	5025.0	5561.8	5894.1	4944.1
55°	4667.1	4641.7	4408.6	4417.6	4786.2	4978.5	5211.5	5631.1	6179.2	6371.0	5229.3
57.5°	4853.7	4821.2	4676.1	4825.7	5363.6	5613.3	5916.4	6312.4	6758.8	6795.1	5446.5
60°	5041.6	5013.5	4972.7	5296.8	6097.2	6359.6	6646.7	6972.7	7346.4	7124.2	5433.7
62.5°	5204.4	5207.8	5279.6	5791.5	6815.4	7119.2	7469.3	7791.5	7878.0	7181.5	5031.9
65°	5480.9	5531.1	5745.7	6491.9	7826.5	8232.6	8662.5	8610.9	8025.2	6646.0	4170.5
67.5°	5809.5	5898.0	6332.7	7425.4	9104.3	9643.7	9809.9	8796.3	7436.1	5402.6	2972.8
70°	5776.3	5898.0	6586.1	8121.4	10157.5	10519.2	10014.9	7960.8	5904.9	3529.3	1579.1
72.5°	5129.4	5303.2	6069.8	7802.3	9825.8	9794.0	8694.3	5934.9	3508.4	1417.3	617.0
75°	3909.4	4085.2	4744.8	6164.1	7766.0	7498.6	6169.1	3278.5	1331.4	562.9	389.1
77.5°	2248.9	2385.1	2894.5	3780.2	4926.9	4652.5	3433.8	1458.1	648.1	392.2	303.7
80°	1255.6	1331.4	1640.8	1917.8	2414.4	2213.3	1536.4	906.1	483.9	284.6	234.4
82.5°	992.6	1060.2	1327.0	1209.7	1102.8	1017.4	882.5	806.8	386.4	179.5	140.1
85°	867.2	931.6	1123.1	952.5	753.3	690.8	717.0	794.0	300.6	108.2	119.7
87.5°	803.5	889.5	1001.0	734.1	586.4	519.5	661.6	870.4	96.8	67.5	48.4
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°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	1878.2	1868.2	1851.6	1836.9	1814.0	1801.9	1788.6	1779.0	1771.3	1765.0	1775.1
5°	1820.4	1801.2	1766.2	1728.7	1684.1	1649.0	1619.8	1592.5	1573.4	1560.5	1569.5
7.5°	1765.6	1734.4	1679.7	1611.6	1535.1	1470.2	1416.6	1369.6	1337.2	1316.1	1324.3
10°	1734.4	1695.6	1610.9	1504.0	1391.2	1290.1	1205.9	1133.3	1083.1	1054.4	1058.8
12.5°	1726.8	1676.5	1559.3	1412.2	1258.1	1117.4	998.9	898.4	827.7	790.8	792.0
15°	1732.6	1668.2	1510.9	1324.3	1129.5	951.8	804.1	681.9	599.9	557.8	557.1
17.5°	1742.0	1661.9	1460.0	1229.5	998.9	792.6	627.8	508.0	435.5	401.7	399.3
20°	1752.2	1651.7	1402.7	1127.0	863.3	644.9	491.5	397.9	352.2	333.7	332.3
22.5°	1766.8	1642.7	1343.5	1018.8	730.3	525.3	404.4	341.3	317.1	307.6	306.3
25°	1790.4	1638.3	1280.4	906.1	610.6	439.3	352.2	313.2	299.3	293.0	292.3
27.5°	1829.9	1644.7	1221.2	796.5	513.2	381.5	322.9	299.3	289.1	283.3	282.7
30°	1880.9	1664.3	1158.8	692.7	437.5	341.9	305.0	289.7	281.5	275.7	275.7
32.5°	1965.6	1697.5	1093.2	603.0	383.3	314.5	291.6	281.5	274.5	270.0	269.4
35°	2090.3	1759.8	1032.1	528.5	344.5	294.8	280.1	272.5	267.4	264.9	264.9
37.5°	2271.8	1858.6	978.0	474.9	320.9	281.5	269.4	263.7	260.4	260.4	260.4
40°	2515.7	1994.8	934.0	439.3	307.6	271.8	261.0	256.6	254.7	255.3	255.3
42.5°	2816.8	2171.8	904.7	414.5	301.1	266.1	255.3	251.6	249.5	249.0	249.5
45°	3160.0	2373.0	901.6	396.1	294.8	262.3	251.6	247.7	243.8	241.4	241.4
47.5°	3493.7	2577.4	927.7	389.6	287.8	257.9	248.3	244.5	238.7	233.0	233.0
50°	3788.4	2751.2	962.7	392.2	285.2	251.6	243.2	241.4	232.4	226.0	225.4
52.5°	4022.8	2885.0	991.4	399.9	287.8	247.0	236.9	237.5	228.0	220.9	220.2
55°	4210.7	2972.8	983.8	407.5	293.6	244.5	231.1	232.4	224.7	217.8	217.8
57.5°	4292.7	2940.3	899.1	401.1	297.9	245.2	226.7	231.7	225.4	219.1	219.1
60°	4116.4	2651.9	740.4	373.1	292.3	243.2	224.7	234.4	233.7	227.3	226.7
62.5°	3582.8	2135.6	574.2	331.7	272.5	233.7	219.7	233.7	240.7	238.7	238.1
65°	2761.4	1521.1	438.6	287.2	245.8	217.8	206.3	219.1	228.6	231.1	230.5
67.5°	1792.4	932.2	338.0	245.2	215.9	199.3	189.1	194.8	196.7	196.7	195.5
70°	881.1	501.7	269.4	206.3	185.3	179.5	173.8	170.7	167.5	164.9	164.9
72.5°	434.9	327.9	221.6	174.5	159.8	157.3	156.0	152.2	149.5	146.4	145.2
75°	321.6	266.8	188.5	147.1	137.5	134.9	137.5	134.4	133.8	131.1	129.9
77.5°	264.2	227.3	162.4	126.0	117.8	113.3	117.1	117.8	118.4	114.6	113.3
80°	214.5	192.3	135.6	104.5	96.8	93.6	96.1	101.3	102.4	96.8	94.2
82.5°	154.7	157.3	109.5	81.5	75.2	72.5	77.7	84.0	85.3	77.0	75.2
85°	129.9	131.1	84.0	57.9	51.6	47.7	56.0	62.4	66.8	58.6	56.7
87.5°	54.1	77.0	48.4	32.4	28.6	24.8	29.9	33.1	40.1	36.9	36.3
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)