

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: P200312

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200312
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-SL4-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA 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: 11802.9 lumens
Efficiency: N/A
Efficacy: 104.5 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

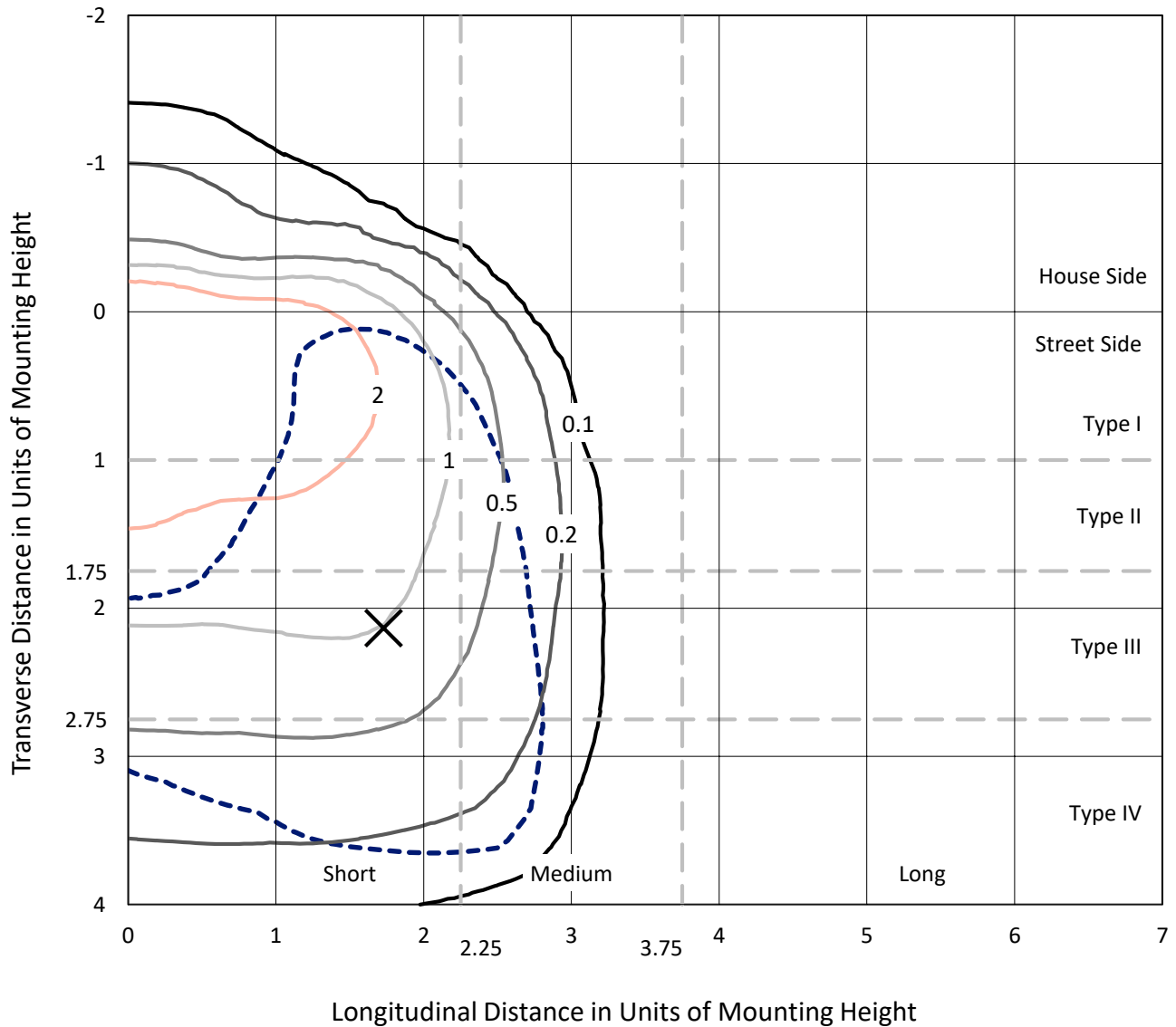
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

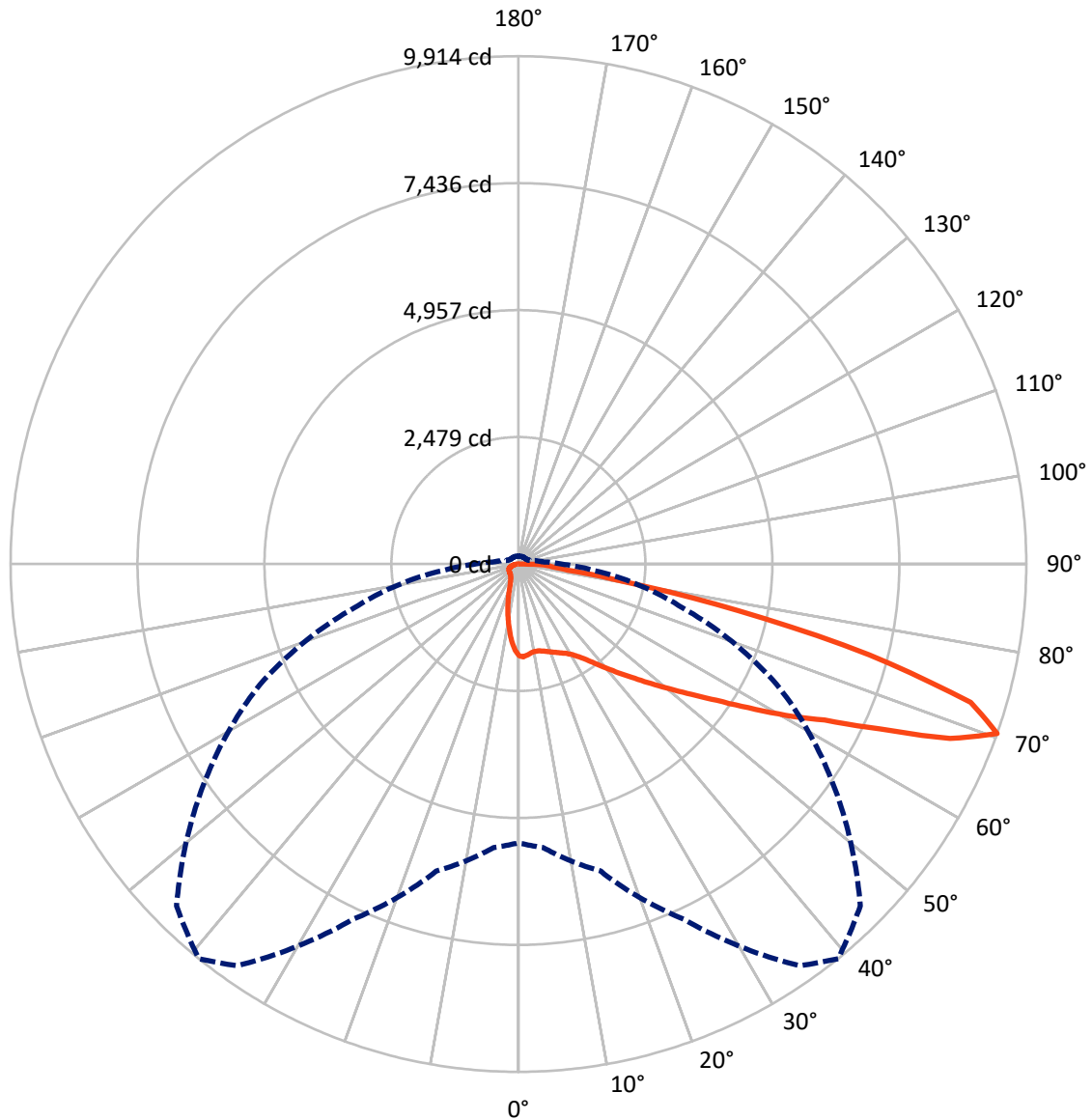
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1342.3	0.0	1342.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10460.6	0.0	10460.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	11802.9	0.0	11802.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.3
10°-20°	384.4	3.3
20°-30°	598.5	5.1
30°-40°	932.3	7.9
40°-50°	1565.2	13.3
50°-60°	2486.5	21.1
60°-70°	3316.8	28.1
70°-80°	2002.9	17.0
80°-90°	362.5	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°	11802.9	100.0
0°-180°	11802.9	100.0



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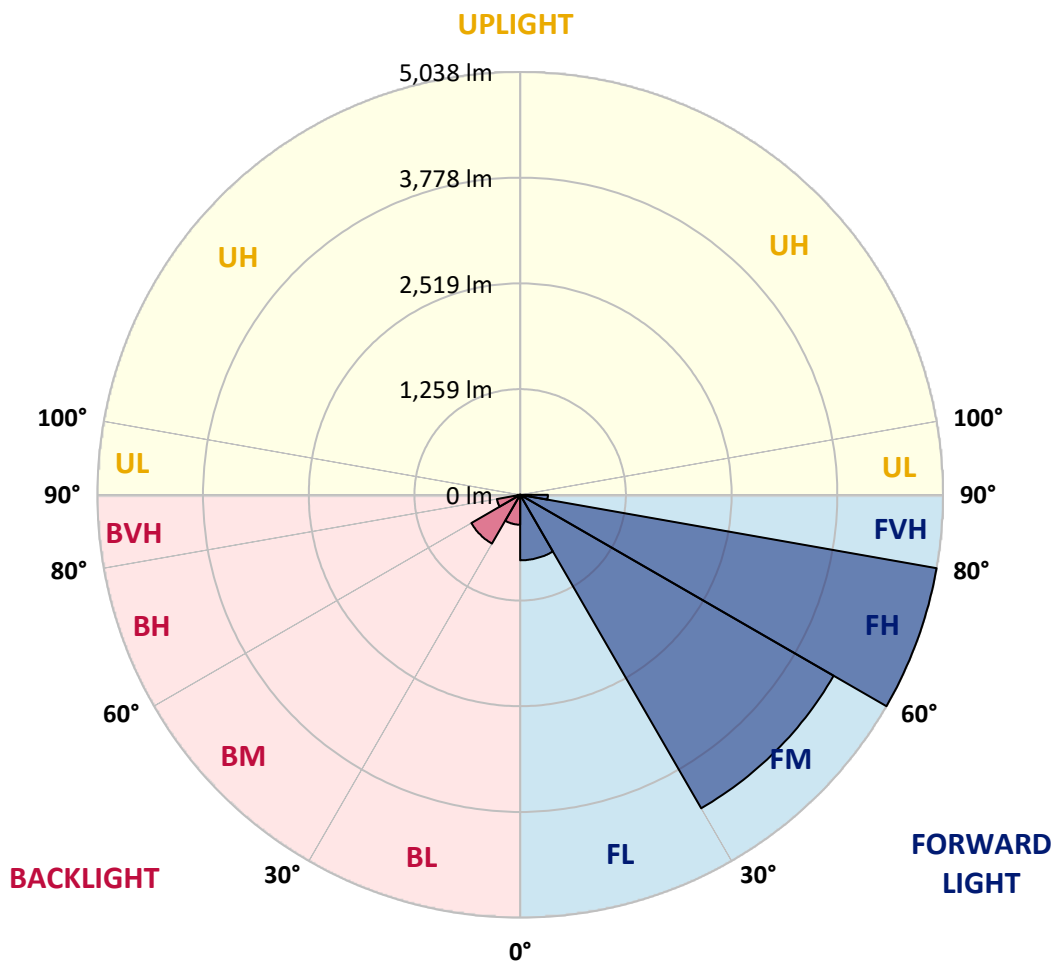
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	780.6	6.6			
FM	(30°-60°)	4312.4	36.5			
FH	(60°-80°)	5037.9	42.7			G3/7500
FVH	(80°-90°)	329.8	2.8			G3/500
BL	(0°-30°)	356.1	3.0	B1/500		
BM	(30°-60°)	671.8	5.7	B1/1000		
BH	(60°-80°)	281.8	2.4	B1/500		G1/500
BVH	(80°-90°)	32.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1826.7	1826.1	1821.3	1817.7	1814.7	1813.5	1815.9	1806.9	1799.1	1789.5	1779.3
5°	1812.9	1812.3	1804.5	1797.3	1790.1	1787.7	1787.1	1770.9	1761.3	1746.9	1727.7
7.5°	1797.9	1794.9	1784.7	1772.7	1760.1	1754.1	1748.1	1727.1	1716.3	1701.9	1679.7
10°	1782.3	1778.7	1769.1	1757.1	1745.1	1736.1	1725.9	1705.5	1694.1	1683.3	1657.5
12.5°	1766.1	1763.1	1760.7	1755.3	1746.9	1739.1	1731.3	1713.9	1701.9	1689.3	1659.3
15°	1763.7	1762.5	1767.9	1771.5	1766.7	1761.9	1753.5	1738.5	1725.9	1713.3	1674.3
17.5°	1782.9	1782.3	1796.1	1805.7	1803.3	1794.9	1783.5	1766.7	1756.5	1745.7	1697.1
20°	1824.9	1827.9	1844.7	1857.3	1845.3	1833.3	1814.7	1791.3	1785.9	1781.1	1720.5
22.5°	1904.1	1907.1	1919.1	1923.9	1892.7	1875.3	1849.5	1819.5	1815.9	1819.5	1748.7
25°	2027.7	2024.7	2022.9	2004.9	1947.9	1920.9	1887.9	1856.7	1858.5	1874.7	1788.3
27.5°	2191.5	2175.3	2150.1	2096.1	2005.5	1975.5	1935.3	1906.5	1917.9	1949.1	1847.7
30°	2361.4	2343.4	2285.2	2196.9	2081.1	2048.1	2003.1	1970.7	2000.7	2049.9	1926.9
32.5°	2518.6	2516.2	2431.0	2317.6	2185.5	2156.7	2111.7	2075.1	2123.7	2198.7	2045.7
35°	2690.2	2695.6	2593.6	2457.4	2326.6	2296.6	2264.2	2236.5	2301.4	2404.6	2217.9
37.5°	2873.8	2884.6	2764.0	2610.4	2487.4	2474.8	2455.6	2443.6	2543.8	2686.6	2458.6
40°	3119.3	3108.5	2941.1	2783.2	2684.8	2684.2	2678.2	2692.6	2859.4	3055.1	2767.6
42.5°	3382.1	3350.3	3128.9	2968.7	2901.5	2921.9	2933.9	2992.7	3239.3	3502.7	3144.5
45°	3665.4	3594.0	3323.9	3164.9	3142.1	3185.3	3226.1	3353.9	3686.4	4012.2	3557.4
47.5°	3891.6	3822.6	3525.5	3370.7	3420.5	3485.9	3564.6	3766.8	4186.9	4538.5	3964.8
50°	4069.8	4024.8	3729.0	3610.8	3727.2	3828.0	3956.4	4234.3	4707.7	5051.0	4342.3
52.5°	4242.7	4209.1	3934.2	3856.8	4087.2	4226.5	4401.1	4735.9	5241.8	5555.1	4659.7
55°	4398.7	4374.7	4155.0	4163.4	4510.9	4692.1	4911.8	5307.2	5823.9	6004.5	4928.6
57.5°	4574.5	4543.9	4407.1	4548.1	5055.2	5290.4	5576.1	5949.3	6370.0	6404.2	5133.2
60°	4751.5	4725.1	4686.7	4992.2	5746.5	5993.7	6264.4	6571.6	6923.9	6714.4	5121.2
62.5°	4905.2	4908.2	4976.0	5458.4	6423.4	6709.6	7039.7	7343.3	7425.0	6768.5	4742.5
65°	5165.6	5213.0	5415.2	6118.6	7376.3	7759.2	8164.3	8115.7	7563.6	6263.8	3930.6
67.5°	5475.3	5558.7	5968.5	6998.3	8580.7	9089.0	9245.6	8290.3	7008.5	5091.8	2801.8
70°	5444.0	5558.7	6207.4	7654.2	9573.3	9914.1	9438.9	7503.0	5565.3	3326.3	1488.2
72.5°	4834.4	4998.2	5720.7	7353.5	9260.6	9230.6	8194.3	5593.5	3306.5	1335.8	581.5
75°	3684.6	3850.2	4471.9	5809.5	7319.3	7067.3	5814.3	3089.9	1254.8	530.5	366.7
77.5°	2119.5	2247.9	2728.0	3562.8	4643.5	4384.9	3236.3	1374.2	610.9	369.7	286.2
80°	1183.4	1254.8	1546.4	1807.5	2275.6	2085.9	1448.0	853.9	456.1	268.2	220.8
82.5°	935.5	999.2	1250.6	1140.2	1039.4	958.9	831.7	760.3	364.3	169.2	132.0
85°	817.3	877.9	1058.6	897.7	709.9	651.1	675.7	748.3	283.2	102.0	112.8
87.5°	757.3	838.3	943.3	691.9	552.7	489.7	623.5	820.3	91.2	63.6	45.6
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°	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1770.3	1760.7	1745.1	1731.3	1709.7	1698.3	1685.7	1676.7	1669.5	1663.5	1673.1
5°	1715.7	1697.7	1664.7	1629.3	1587.2	1554.2	1526.6	1500.8	1482.8	1470.8	1479.2
7.5°	1664.1	1634.7	1583.0	1518.8	1446.8	1385.6	1335.2	1290.8	1260.2	1240.4	1248.2
10°	1634.7	1598.0	1518.2	1417.4	1311.2	1215.8	1136.6	1068.2	1020.8	993.8	998.0
12.5°	1627.5	1580.0	1469.6	1331.0	1185.8	1053.2	941.5	846.7	780.1	745.3	746.5
15°	1632.9	1572.2	1424.0	1248.2	1064.6	897.1	757.9	642.7	565.3	525.7	525.1
17.5°	1641.9	1566.2	1376.0	1158.8	941.5	747.1	591.7	478.9	410.5	378.7	376.3
20°	1651.5	1556.6	1322.0	1062.2	813.7	607.9	463.3	375.1	331.9	314.4	313.2
22.5°	1665.3	1548.2	1266.2	960.1	688.3	495.1	381.1	321.6	298.8	289.8	288.6
25°	1687.5	1544.0	1206.8	853.9	575.5	414.1	331.9	295.2	282.0	276.0	275.4
27.5°	1724.7	1550.0	1151.0	750.7	483.7	359.5	304.2	282.0	272.4	267.0	266.4
30°	1772.7	1568.6	1092.2	652.9	412.3	322.3	287.4	273.0	265.2	259.8	259.8
32.5°	1852.5	1599.8	1030.4	568.3	361.3	296.4	274.8	265.2	258.6	254.4	253.8
35°	1970.1	1658.7	972.8	498.1	324.7	277.8	264.0	256.8	252.0	249.6	249.6
37.5°	2141.1	1751.7	921.7	447.7	302.4	265.2	253.8	248.4	245.4	245.4	245.4
40°	2371.0	1880.1	880.3	414.1	289.8	256.2	246.0	241.8	240.0	240.6	240.6
42.5°	2654.8	2046.9	852.7	390.7	283.8	250.8	240.6	237.0	235.2	234.6	235.2
45°	2978.3	2236.5	849.7	373.3	277.8	247.2	237.0	233.4	229.8	227.4	227.4
47.5°	3292.7	2429.2	874.3	367.3	271.2	243.0	234.0	230.4	225.0	219.6	219.6
50°	3570.6	2593.0	907.3	369.7	268.8	237.0	229.2	227.4	219.0	213.0	212.4
52.5°	3791.4	2719.0	934.3	376.9	271.2	232.8	223.2	223.8	214.8	208.2	207.6
55°	3968.4	2801.8	927.1	384.1	276.6	230.4	217.8	219.0	211.8	205.2	205.2
57.5°	4045.8	2771.2	847.3	378.1	280.8	231.0	213.6	218.4	212.4	206.4	206.4
60°	3879.6	2499.4	697.9	351.7	275.4	229.2	211.8	220.8	220.2	214.2	213.6
62.5°	3376.7	2012.7	541.3	312.6	256.8	220.2	207.0	220.2	226.8	225.0	224.4
65°	2602.6	1433.6	413.5	270.6	231.6	205.2	194.4	206.4	215.4	217.8	217.2
67.5°	1689.3	878.5	318.6	231.0	203.4	187.8	178.2	183.6	185.4	185.4	184.2
70°	830.5	472.9	253.8	194.4	174.6	169.2	163.8	160.8	157.8	155.4	155.4
72.5°	409.9	309.0	208.8	164.4	150.6	148.2	147.0	143.4	141.0	138.0	136.8
75°	303.0	251.4	177.6	138.6	129.6	127.2	129.6	126.6	126.0	123.6	122.4
77.5°	249.0	214.2	153.0	118.8	111.0	106.8	110.4	111.0	111.6	108.0	106.8
80°	202.2	181.2	127.8	98.4	91.2	88.2	90.6	95.4	96.6	91.2	88.8
82.5°	145.8	148.2	103.2	76.8	70.8	68.4	73.2	79.2	80.4	72.6	70.8
85°	122.4	123.6	79.2	54.6	48.6	45.0	52.8	58.8	63.0	55.2	53.4
87.5°	51.0	72.6	45.6	30.6	27.0	23.4	28.2	31.2	37.8	34.8	34.2
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)