

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: P270216

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270216  
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-SL4-7027-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 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: 11249.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

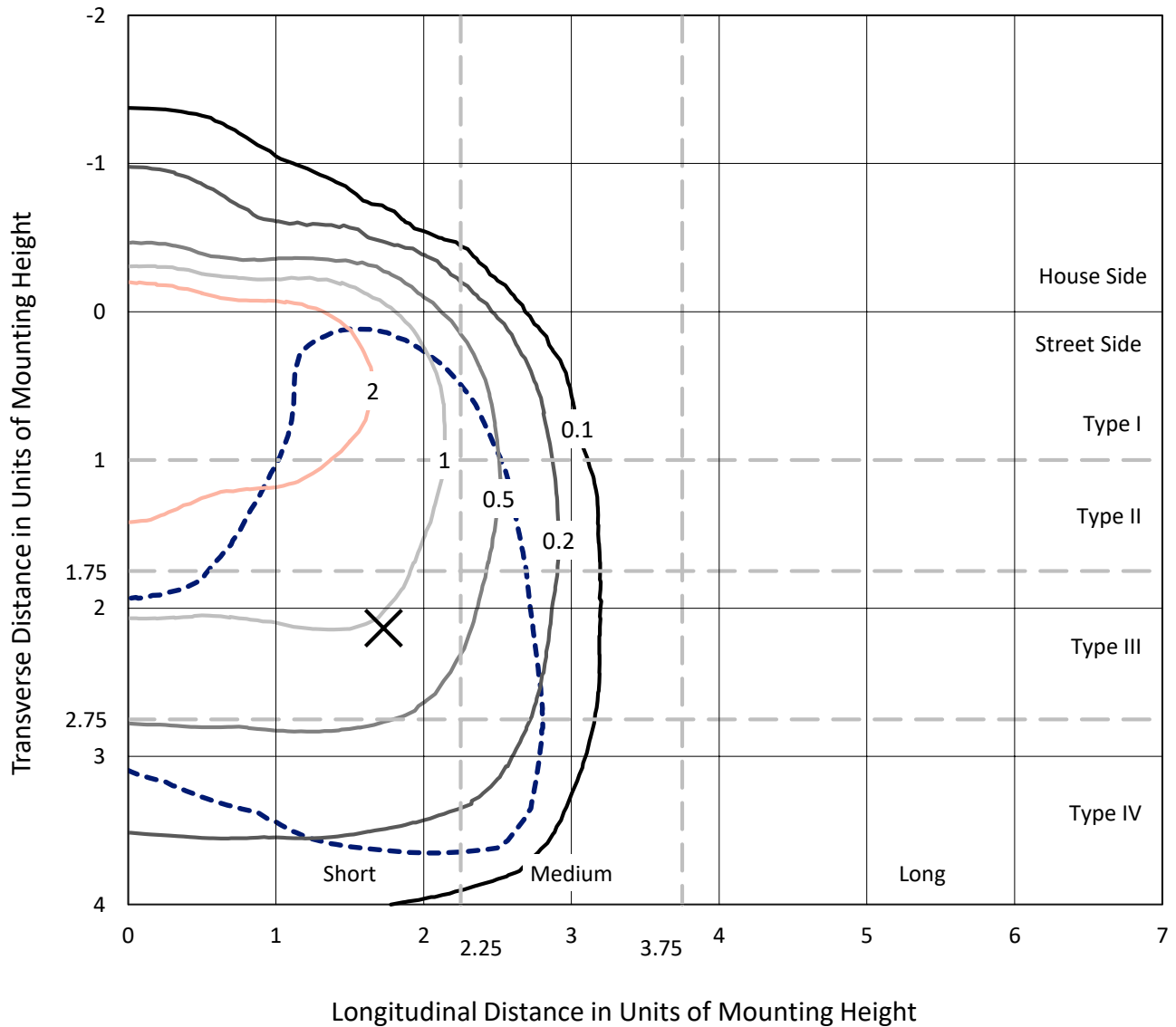


REPORT NUMBER: P270216

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

### Iso-Footcandle Lines of Horizontal Illumination

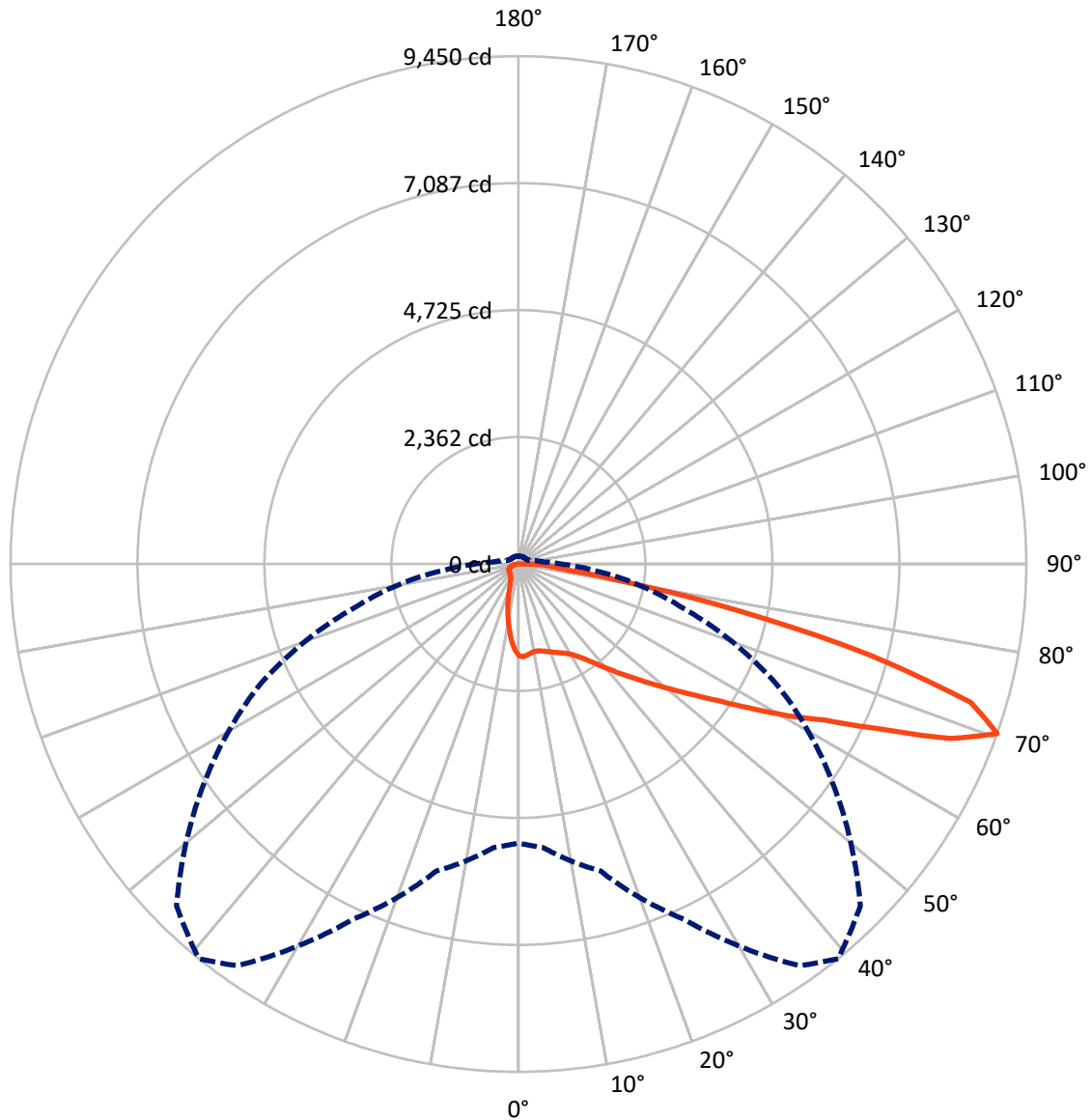
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P270216  
CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P270216

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1279.5	0.0	1279.5
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	9970.3	0.0	9970.3
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	11249.8	0.0	11249.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	1.3
10°-20°	366.4	3.3
20°-30°	570.5	5.1
30°-40°	888.6	7.9
40°-50°	1491.9	13.3
50°-60°	2370.0	21.1
60°-70°	3161.3	28.1
70°-80°	1909.0	17.0
80°-90°	345.5	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°	11249.8	100.0
0°-180°	11249.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P270216

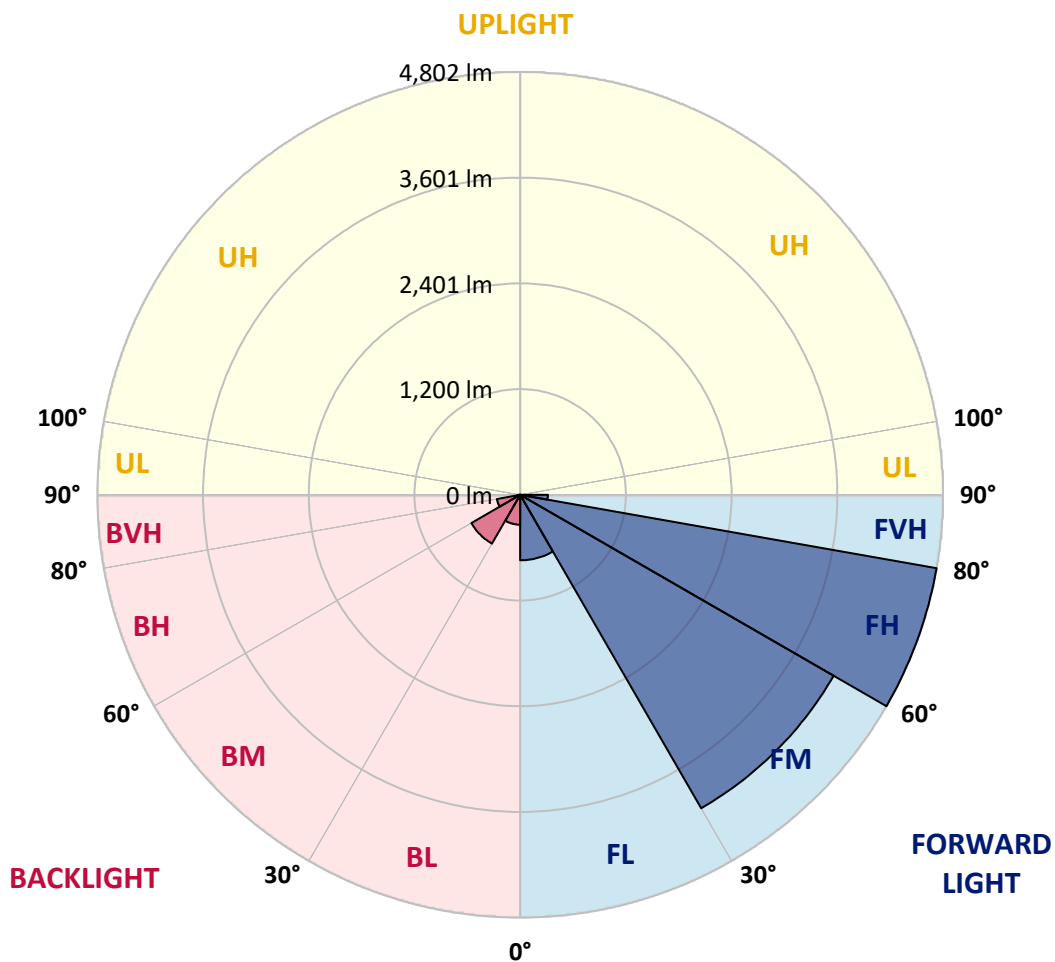
CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.0	6.6			
FM (30°-60°)	4110.2	36.5			
FH (60°-80°)	4801.7	42.7			G2/5000
FVH (80°-90°)	314.4	2.8			G3/500
BL (0°-30°)	339.4	3.0	B1/500		
BM (30°-60°)	640.3	5.7	B1/1000		
BH (60°-80°)	268.6	2.4	B1/500		G1/500
BVH (80°-90°)	31.1	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: P270216

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
2.5°	1741.1	1740.5	1736.0	1732.6	1729.6	1728.5	1730.8	1722.2	1714.8	1705.6	1695.9
5°	1727.9	1727.4	1719.8	1713.1	1706.2	1703.8	1703.2	1687.8	1678.8	1665.0	1646.8
7.5°	1713.5	1710.7	1701.0	1689.6	1677.6	1671.8	1666.1	1646.1	1635.9	1622.1	1600.9
10°	1698.8	1695.3	1686.2	1674.7	1663.3	1654.7	1644.9	1625.6	1614.7	1604.4	1579.8
12.5°	1683.3	1680.4	1678.2	1673.1	1665.0	1657.6	1650.1	1633.6	1622.1	1610.1	1581.5
15°	1681.0	1679.9	1685.0	1688.5	1683.9	1679.3	1671.2	1657.0	1644.9	1632.9	1595.7
17.5°	1699.4	1698.8	1711.9	1721.1	1718.7	1710.7	1700.0	1683.9	1674.1	1663.8	1617.5
20°	1739.4	1742.3	1758.3	1770.2	1758.8	1747.4	1729.6	1707.3	1702.2	1697.5	1639.9
22.5°	1814.8	1817.7	1829.2	1833.7	1803.9	1787.4	1762.8	1734.2	1730.8	1734.2	1666.7
25°	1932.7	1929.7	1928.1	1911.0	1856.5	1830.8	1799.5	1769.7	1771.4	1786.8	1704.4
27.5°	2088.7	2073.4	2049.4	1997.9	1911.6	1882.8	1844.6	1817.1	1828.1	1857.8	1761.0
30°	2250.7	2233.5	2178.0	2093.9	1983.5	1952.0	1909.2	1878.4	1906.9	1953.9	1836.6
32.5°	2400.5	2398.3	2317.0	2208.9	2083.1	2055.6	2012.7	1977.9	2024.2	2095.7	1949.9
35°	2564.1	2569.2	2472.0	2342.2	2217.5	2188.9	2158.0	2131.7	2193.5	2291.8	2114.0
37.5°	2739.1	2749.4	2634.5	2488.0	2370.7	2358.8	2340.4	2329.0	2424.5	2560.7	2343.4
40°	2973.1	2962.8	2803.3	2652.8	2559.0	2558.5	2552.7	2566.4	2725.4	2911.9	2638.0
42.5°	3223.6	3193.2	2982.3	2829.5	2765.4	2784.8	2796.3	2852.4	3087.5	3338.6	2997.0
45°	3493.6	3425.4	3168.1	3016.6	2994.8	3036.0	3074.9	3196.7	3513.6	3824.2	3390.7
47.5°	3709.2	3643.4	3360.3	3212.7	3260.2	3322.6	3397.5	3590.3	3990.6	4325.8	3779.0
50°	3879.2	3836.1	3554.1	3441.4	3552.4	3648.6	3770.9	4035.7	4487.0	4814.2	4138.8
52.5°	4043.8	4011.8	3749.7	3676.0	3895.7	4028.4	4194.7	4514.0	4996.2	5294.7	4441.3
55°	4192.5	4169.7	3960.3	3968.4	4299.5	4472.2	4681.5	5058.4	5550.8	5723.1	4697.5
57.5°	4360.1	4330.9	4200.6	4335.0	4818.1	5042.5	5314.7	5670.5	6071.5	6104.1	4892.6
60°	4528.9	4503.7	4467.0	4758.1	5477.1	5712.9	5970.8	6263.6	6599.3	6399.7	4881.1
62.5°	4675.1	4678.2	4742.7	5202.5	6122.3	6395.2	6709.7	6999.1	7076.8	6451.2	4520.2
65°	4923.5	4968.6	5161.4	5831.7	7030.6	7395.4	7781.6	7735.2	7209.1	5970.1	3746.4
67.5°	5218.7	5298.2	5688.7	6670.3	8178.4	8663.0	8812.3	7901.8	6679.9	4853.2	2670.5
70°	5188.9	5298.2	5916.3	7295.5	9124.5	9449.5	8996.4	7151.2	5304.4	3170.4	1418.5
72.5°	4607.8	4763.9	5452.5	7008.8	8826.6	8798.0	7810.1	5331.4	3151.6	1273.2	554.3
75°	3511.8	3669.8	4262.3	5537.2	6976.2	6736.0	5541.7	2945.1	1196.0	505.7	349.5
77.5°	2020.2	2142.5	2600.1	3395.8	4425.9	4179.4	3084.6	1309.8	582.2	352.3	272.8
80°	1127.9	1196.0	1473.9	1722.8	2168.9	1988.2	1380.2	814.0	434.7	255.7	210.6
82.5°	891.7	952.4	1192.1	1086.7	990.7	913.9	792.8	724.8	347.1	161.2	125.9
85°	779.0	836.9	1008.9	855.6	676.7	620.5	644.1	713.3	270.0	97.2	107.5
87.5°	721.8	799.0	899.2	659.4	526.8	466.7	594.3	781.9	87.0	60.6	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270216

CATALOG NUMBER: GWC-AF-02-LED-E1-SL4-7027-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9	1707.9
2.5°	1687.2	1678.2	1663.3	1650.1	1629.5	1618.7	1606.7	1598.1	1591.2	1585.5	1594.6
5°	1635.3	1618.0	1586.6	1552.9	1512.8	1481.3	1455.1	1430.6	1413.4	1401.8	1409.9
7.5°	1586.0	1558.0	1508.9	1447.7	1379.0	1320.7	1272.5	1230.3	1201.2	1182.3	1189.6
10°	1558.0	1523.2	1447.1	1351.1	1249.7	1158.9	1083.3	1018.0	973.0	947.2	951.1
12.5°	1551.2	1506.0	1400.7	1268.6	1130.2	1003.8	897.3	807.0	743.5	710.4	711.5
15°	1556.4	1498.6	1357.2	1189.6	1014.6	855.0	722.3	612.6	538.9	501.1	500.4
17.5°	1564.8	1492.9	1311.5	1104.5	897.3	712.0	564.0	456.3	391.2	360.8	358.7
20°	1574.0	1483.7	1260.1	1012.4	775.5	579.3	441.5	357.4	316.4	299.8	298.5
22.5°	1587.1	1475.6	1206.9	915.2	656.0	471.9	363.3	306.6	284.9	276.3	275.2
25°	1608.3	1471.7	1150.2	814.0	548.5	394.6	316.4	281.3	268.9	263.2	262.6
27.5°	1643.8	1477.4	1097.0	715.5	461.0	342.7	290.1	268.9	259.7	254.5	254.0
30°	1689.6	1495.0	1041.0	622.3	393.0	307.1	274.0	260.2	252.9	247.7	247.7
32.5°	1765.7	1524.9	982.0	541.7	344.3	282.5	261.9	252.9	246.6	242.5	242.0
35°	1877.7	1580.8	927.1	474.8	309.5	264.8	251.6	244.8	240.2	238.0	238.0
37.5°	2040.8	1669.6	878.5	426.6	288.3	252.9	242.0	236.9	233.9	233.9	233.9
40°	2259.9	1791.9	839.0	394.6	276.3	244.2	234.5	230.5	228.8	229.3	229.3
42.5°	2530.3	1950.9	812.7	372.3	270.5	239.0	229.3	226.0	224.1	223.7	224.1
45°	2838.6	2131.7	809.9	355.8	264.8	235.6	226.0	222.5	219.0	216.9	216.9
47.5°	3138.4	2315.3	833.4	350.0	258.5	231.7	223.0	219.6	214.4	209.3	209.3
50°	3403.1	2471.4	864.8	352.3	256.2	226.0	218.5	216.9	208.8	203.0	202.5
52.5°	3613.7	2591.6	890.6	359.2	258.5	221.9	212.8	213.3	204.8	198.4	197.8
55°	3782.5	2670.5	883.8	366.1	263.7	219.6	207.6	208.8	201.8	195.7	195.7
57.5°	3856.2	2641.3	807.7	360.3	267.6	220.3	203.6	208.1	202.5	196.8	196.8
60°	3697.8	2382.2	665.1	335.2	262.6	218.5	201.8	210.6	209.9	204.2	203.6
62.5°	3218.4	1918.4	515.8	298.0	244.8	209.9	197.4	209.9	216.2	214.4	213.9
65°	2480.6	1366.4	394.0	258.0	220.8	195.7	185.3	196.8	205.4	207.6	207.1
67.5°	1610.1	837.4	303.6	220.3	193.9	179.0	169.9	175.0	176.7	176.7	175.6
70°	791.5	450.7	242.0	185.3	166.5	161.2	156.1	153.3	150.5	148.1	148.1
72.5°	390.7	294.6	199.1	156.8	143.5	141.3	140.1	136.7	134.3	131.5	130.4
75°	288.9	239.7	169.3	132.1	123.5	121.2	123.5	120.7	120.2	117.8	116.7
77.5°	237.3	204.2	145.9	113.2	105.8	101.8	105.2	105.8	106.4	102.9	101.8
80°	192.7	172.7	121.8	93.9	87.0	84.1	86.3	91.0	92.0	87.0	84.6
82.5°	139.0	141.3	98.4	73.2	67.6	65.1	69.8	75.5	76.6	69.2	67.6
85°	116.7	117.8	75.5	52.0	46.4	42.8	50.3	56.1	60.0	52.6	50.9
87.5°	48.6	69.2	43.5	29.1	25.7	22.3	26.9	29.7	36.0	33.1	32.6
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)