

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: P270205

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10573.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

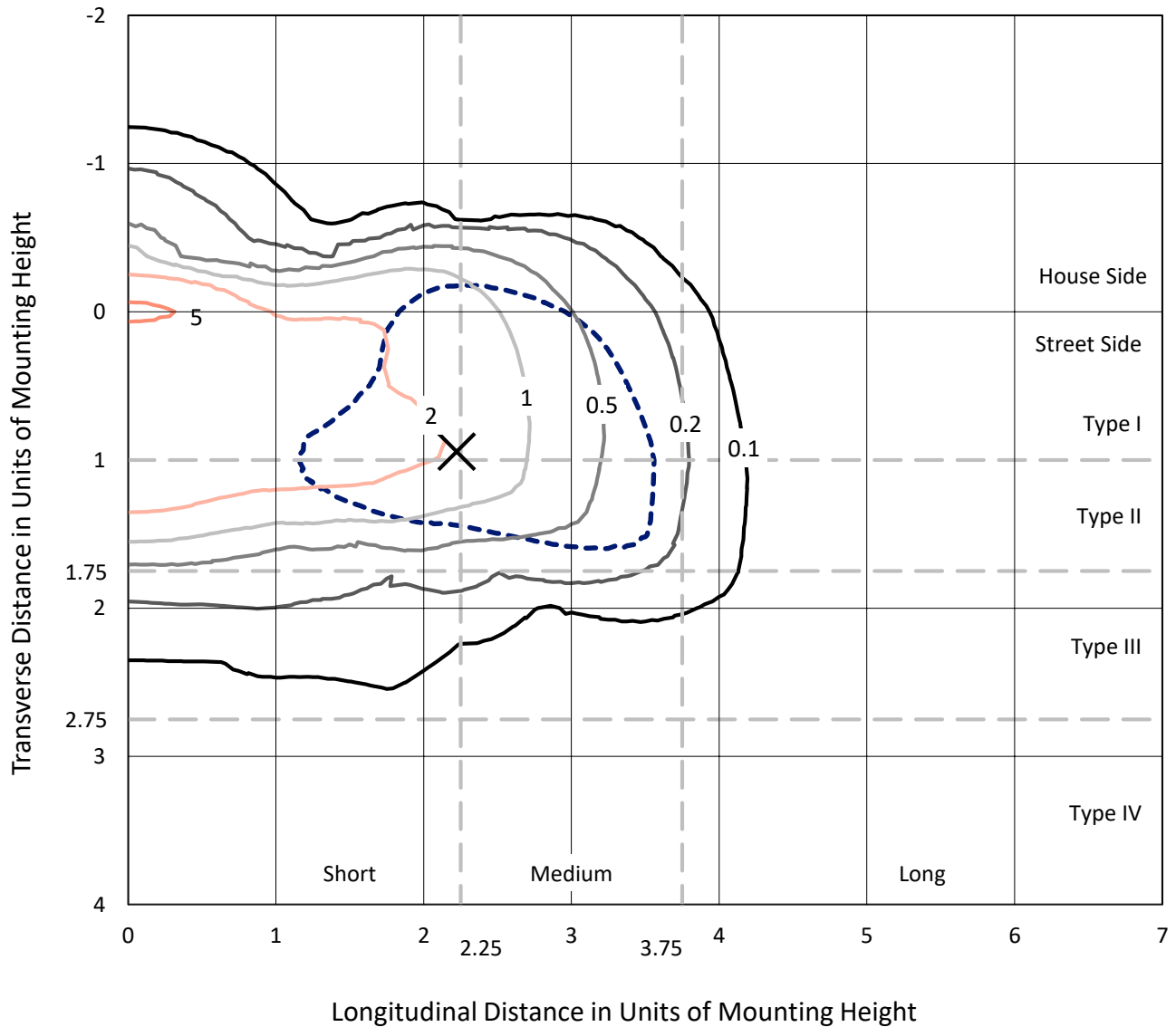
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

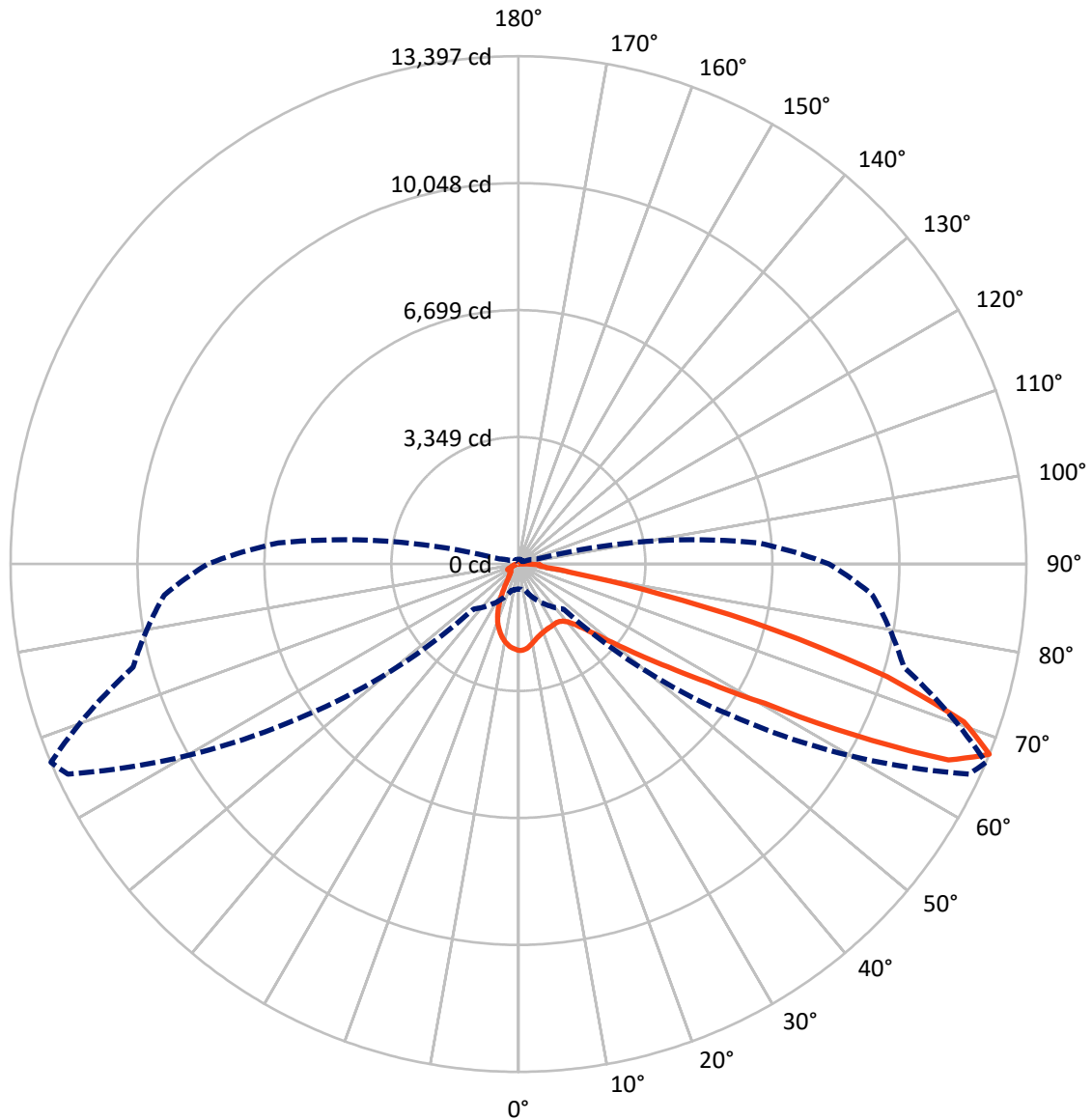
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.9	0.0	1751.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8821.6	0.0	8821.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	10573.5	0.0	10573.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.8
10°-20°	450.2	4.3
20°-30°	610.3	5.8
30°-40°	867.6	8.2
40°-50°	1451.5	13.7
50°-60°	2296.2	21.7
60°-70°	2925.2	27.7
70°-80°	1532.2	14.5
80°-90°	245.7	2.3
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°	10573.5	100.0
0°-180°	10573.5	100.0



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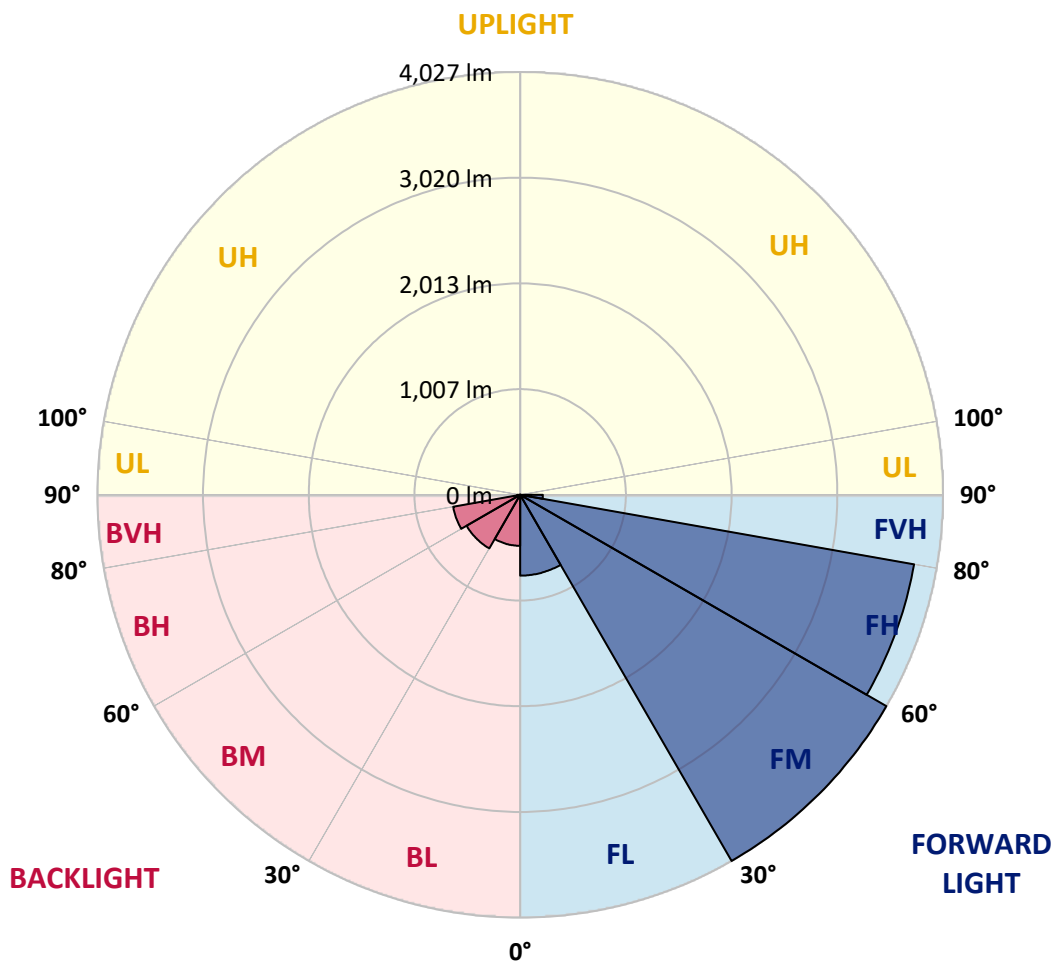
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.5	7.3			
FM	(30°-60°)	4026.6	38.1			
FH	(60°-80°)	3809.4	36.0			G2/5000
FVH	(80°-90°)	216.1	2.0			G2/225
BL	(0°-30°)	485.6	4.6	B1/500		
BM	(30°-60°)	588.7	5.6	B1/1000		
BH	(60°-80°)	648.0	6.1	B2/1000		G2/1000
BVH	(80°-90°)	29.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6
2.5°	2186.8	2190.4	2201.9	2209.2	2242.1	2256.2	2266.1	2275.9	2277.6	2282.2	2277.6
5°	1957.3	1965.2	1986.6	2010.5	2074.1	2124.2	2177.0	2231.7	2241.6	2277.1	2286.9
7.5°	1779.6	1777.4	1795.3	1823.9	1889.0	1958.5	2050.7	2159.7	2181.1	2260.9	2299.4
10°	1649.7	1648.2	1667.0	1696.7	1758.7	1824.5	1928.8	2077.9	2108.1	2235.3	2311.5
12.5°	1553.8	1554.3	1573.1	1606.0	1669.1	1735.3	1841.2	1998.5	2037.1	2205.6	2323.9
15°	1490.2	1494.4	1509.5	1544.5	1606.0	1672.1	1775.9	1939.1	1982.4	2182.2	2338.0
17.5°	1468.8	1475.6	1480.9	1506.4	1559.1	1625.3	1726.9	1895.3	1941.2	2166.0	2350.5
20°	1488.6	1496.4	1486.5	1495.4	1528.7	1587.1	1688.4	1860.8	1907.9	2147.7	2352.1
22.5°	1573.7	1580.9	1551.7	1526.2	1524.2	1559.5	1656.6	1833.8	1882.3	2134.2	2352.7
25°	1723.3	1728.0	1678.9	1619.6	1561.7	1549.7	1634.1	1815.0	1866.7	2122.2	2342.7
27.5°	1906.8	1910.4	1854.1	1766.5	1650.2	1573.1	1626.3	1804.1	1857.9	2111.7	2326.0
30°	2130.1	2147.2	2071.6	1961.1	1791.6	1642.6	1641.9	1798.3	1848.0	2093.9	2293.3
32.5°	2358.4	2365.6	2313.6	2201.4	1981.9	1764.5	1685.7	1802.4	1845.3	2072.6	2251.5
35°	2589.9	2599.2	2565.4	2475.2	2242.1	1943.4	1771.3	1827.1	1861.5	2065.4	2222.2
37.5°	2889.7	2902.2	2855.4	2751.0	2558.6	2185.8	1913.6	1888.5	1911.0	2086.3	2213.5
40°	3363.7	3358.0	3220.9	3065.3	2904.8	2496.0	2116.9	1992.9	2005.8	2153.4	2240.6
42.5°	3915.4	3901.2	3665.1	3421.0	3285.5	2871.4	2386.0	2173.8	2171.2	2285.8	2336.0
45°	4355.4	4343.9	4131.1	3830.4	3721.9	3299.0	2733.8	2443.4	2424.0	2496.0	2512.2
47.5°	4593.8	4594.2	4471.7	4226.0	4223.6	3842.3	3180.7	2833.3	2799.9	2834.0	2816.6
50°	4510.3	4521.2	4508.1	4429.9	4681.2	4554.5	3764.1	3377.2	3310.0	3343.3	3277.0
52.5°	4106.7	4120.7	4197.9	4317.9	4873.7	5415.4	4621.3	4053.0	3974.8	3962.8	3889.2
55°	3391.3	3408.4	3566.0	3891.8	4713.5	5993.8	5973.9	4914.4	4789.8	4676.5	4645.3
57.5°	2337.5	2366.1	2619.5	3103.5	4195.9	6168.3	7584.5	6142.3	5888.8	5493.7	5501.0
60°	1317.6	1351.1	1649.7	2089.3	3151.0	5978.6	8809.9	8002.2	7467.3	6450.5	6504.6
62.5°	837.8	874.0	1100.8	1451.7	1890.7	4956.6	9312.0	10588.0	9908.5	7629.9	7683.1
65°	678.4	694.0	800.8	1198.2	1372.9	2986.1	8930.8	12717.8	12464.5	9126.9	8878.7
67.5°	662.2	667.4	722.6	1005.8	1316.6	1678.5	7123.6	13116.2	13397.3	10524.8	9376.7
70°	654.3	672.7	814.5	959.8	1260.9	1415.6	4280.9	12024.4	12468.1	10890.3	8713.9
72.5°	317.6	316.6	409.8	868.1	1420.3	1468.3	2199.3	9729.2	10174.5	9435.1	7160.6
75°	255.9	234.1	223.7	318.1	1365.7	1516.2	1401.5	6694.4	7016.8	6325.9	4401.9
77.5°	243.0	216.9	198.6	199.2	577.3	1608.1	1187.3	3705.1	3799.0	2857.4	1206.1
80°	201.3	177.2	164.2	185.1	279.6	1531.4	1283.8	1676.9	1538.6	701.8	401.5
82.5°	139.7	127.2	123.5	155.3	223.7	1091.4	1492.9	901.0	755.6	351.4	247.7
85°	89.1	76.1	84.5	113.1	174.1	503.7	1537.7	702.4	558.4	223.1	139.7
87.5°	41.2	33.3	41.7	62.6	113.6	173.6	1463.1	788.9	575.2	117.9	88.2
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°	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6	2280.6
2.5°	2281.8	2271.9	2264.0	2249.4	2233.2	2217.6	2203.5	2185.8	2180.5	2175.9	2183.2
5°	2289.1	2279.1	2250.4	2205.6	2156.0	2109.7	2063.2	2023.6	1999.1	1985.6	1993.3
7.5°	2300.0	2285.8	2226.4	2144.1	2055.0	1973.5	1889.7	1822.3	1772.8	1749.4	1756.1
10°	2309.9	2282.8	2185.8	2062.1	1931.8	1810.9	1678.5	1568.9	1487.7	1444.8	1455.3
12.5°	2314.0	2270.7	2129.0	1960.0	1781.2	1603.8	1408.9	1245.1	1128.4	1085.6	1076.7
15°	2318.3	2257.3	2066.5	1843.7	1599.3	1348.4	1075.1	879.1	782.2	760.8	756.1
17.5°	2319.2	2233.7	1995.4	1717.6	1385.9	1044.4	735.3	610.6	611.0	645.5	649.7
20°	2308.4	2198.8	1909.4	1560.5	1130.4	722.1	504.8	483.4	562.1	648.1	658.5
22.5°	2283.3	2152.3	1811.9	1377.6	837.8	475.6	390.6	413.9	515.6	621.0	632.9
25°	2251.5	2096.0	1696.7	1165.5	554.9	340.0	327.4	356.1	425.0	495.3	502.2
27.5°	2208.3	2029.4	1567.5	922.4	360.3	280.0	288.4	307.6	335.7	367.0	370.2
30°	2152.3	1949.6	1429.3	672.7	272.1	251.9	263.8	274.3	286.3	303.9	305.6
32.5°	2088.3	1873.0	1287.5	464.6	241.5	237.2	246.7	251.9	261.2	272.1	273.3
35°	2034.7	1799.9	1140.4	328.5	228.3	226.4	232.5	234.6	243.5	255.5	256.6
37.5°	2003.8	1740.5	988.7	264.9	219.5	216.4	220.1	220.1	232.5	250.3	253.0
40°	2005.8	1707.7	837.0	239.3	212.2	208.0	208.5	208.5	224.8	244.0	245.5
42.5°	2062.7	1716.0	702.4	229.4	206.5	201.8	199.2	200.7	214.2	226.8	227.9
45°	2196.1	1775.0	576.2	223.1	200.7	199.2	193.4	193.0	198.2	203.8	203.8
47.5°	2415.3	1891.2	490.7	218.9	196.1	195.6	188.7	181.9	181.5	183.6	183.6
50°	2771.4	2091.4	433.3	214.2	193.0	188.7	180.9	170.5	166.8	168.4	168.4
52.5°	3305.3	2448.6	411.5	208.0	186.2	179.4	170.5	160.1	156.9	157.5	157.5
55°	4005.5	2997.1	408.3	200.7	178.9	168.0	160.5	152.8	149.1	150.1	150.1
57.5°	4861.2	3755.8	464.1	189.3	168.9	156.5	152.3	147.1	144.4	146.1	145.4
60°	5901.3	4748.5	688.3	177.2	159.0	146.1	146.1	141.8	139.7	141.4	140.8
62.5°	7099.7	5888.8	967.7	168.4	148.6	137.7	139.7	137.7	135.6	136.6	136.2
65°	8162.3	6631.8	906.2	161.7	138.2	129.8	133.5	132.4	130.9	132.0	131.4
67.5°	8193.0	6356.5	508.9	154.4	128.3	122.0	127.2	126.8	125.7	126.8	126.2
70°	7311.8	5367.5	286.7	140.8	117.9	112.6	120.0	119.5	118.3	120.5	120.0
72.5°	5858.1	3895.1	209.7	124.1	107.3	102.8	111.1	110.5	110.5	113.6	112.1
75°	3371.0	2004.3	167.4	106.4	96.5	92.9	100.2	100.6	101.7	105.8	102.8
77.5°	960.9	624.6	136.6	90.2	83.0	81.3	88.7	89.7	90.2	95.0	90.6
80°	357.2	287.8	112.6	75.5	67.8	68.4	75.1	76.6	77.2	81.8	76.6
82.5°	227.9	189.8	91.3	58.4	53.2	52.7	61.1	63.2	63.2	63.6	60.5
85°	132.9	113.6	68.8	42.2	37.5	36.0	45.4	49.0	47.4	46.4	44.3
87.5°	89.1	78.2	42.2	23.4	20.3	19.4	26.6	29.3	28.1	26.6	25.1
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)