

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: P199977

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL3-7030-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6744.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

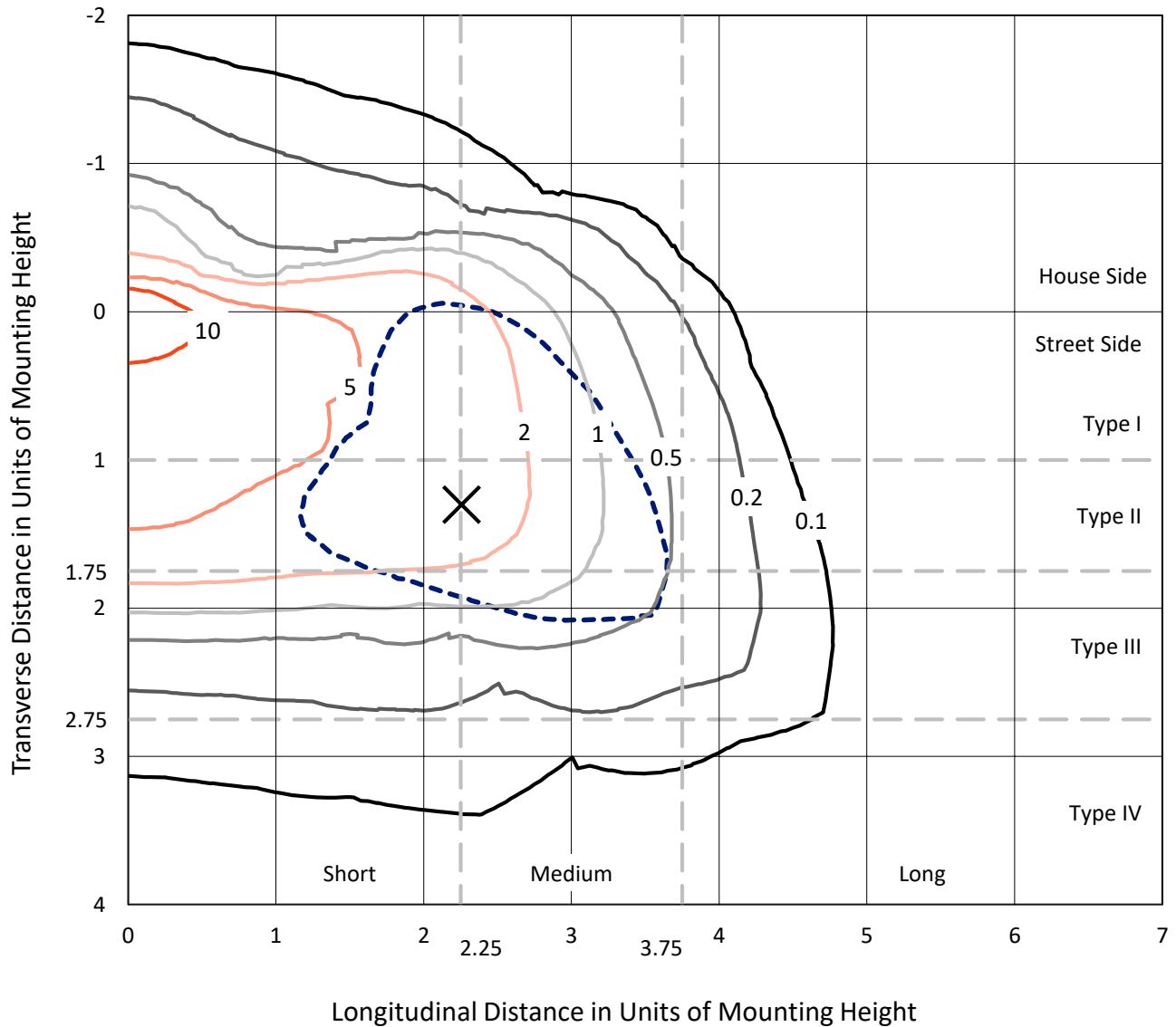


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Iso-Footcandle Lines of Horizontal Illumination

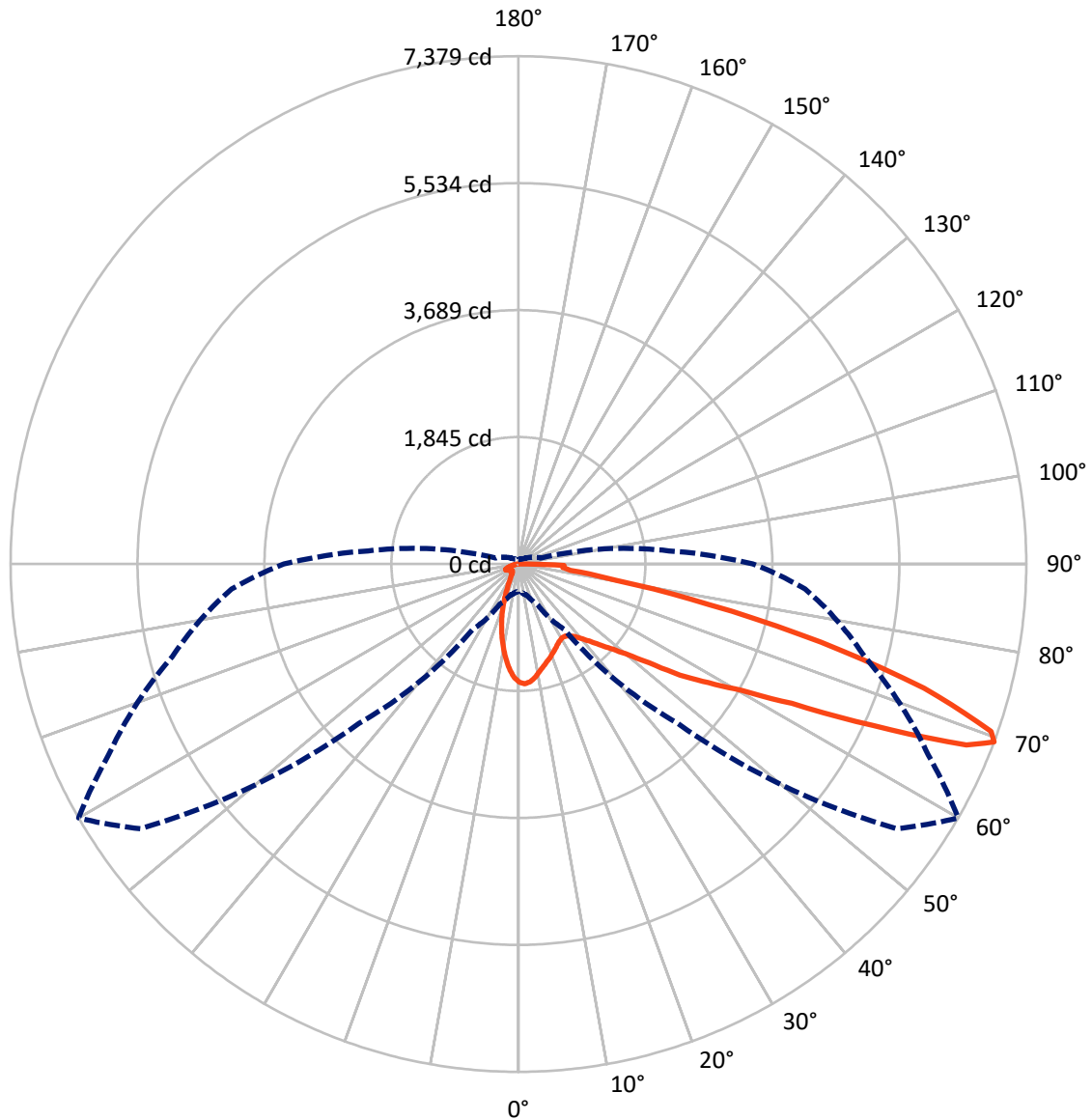
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.5	0.0	959.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5785.0	0.0	5785.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	6744.6	0.0	6744.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	2.2
10°-20°	309.6	4.6
20°-30°	394.5	5.8
30°-40°	542.3	8.0
40°-50°	880.0	13.0
50°-60°	1411.3	20.9
60°-70°	1878.3	27.8
70°-80°	1014.1	15.0
80°-90°	169.2	2.5
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°	6744.6	100.0
0°-180°	6744.6	100.0



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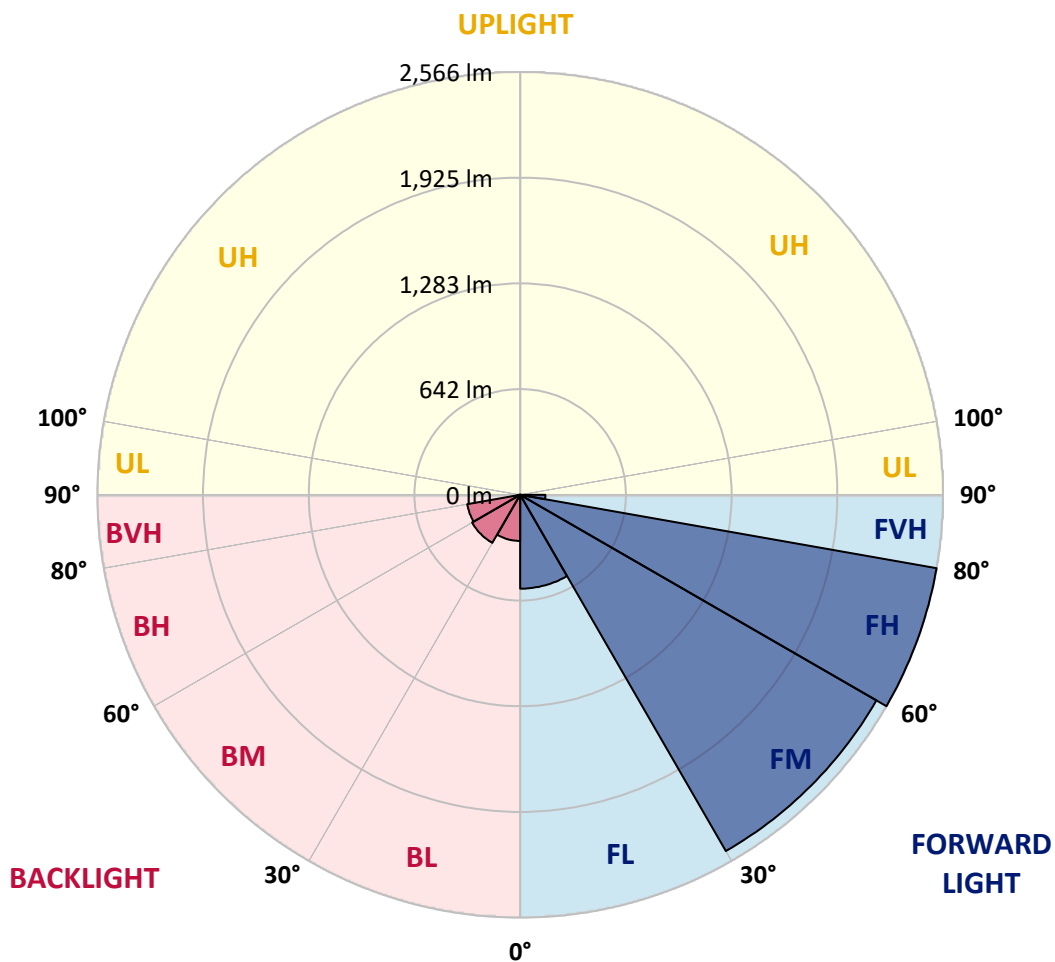
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.5	8.4			
FM (30°-60°)	2496.5	37.0			
FH (60°-80°)	2566.2	38.0			G2/5000
FVH (80°-90°)	152.9	2.3			G2/225
BL (0°-30°)	279.9	4.2	B1/500		
BM (30°-60°)	337.1	5.0	B1/1000		
BH (60°-80°)	326.2	4.8	B1/500		G1/500
BVH (80°-90°)	16.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1753.8	1757.8	1756.2	1755.1	1758.1	1753.5	1744.0	1741.0	1736.5	1725.7	1707.5
5°	1687.9	1699.7	1699.1	1707.8	1722.6	1726.4	1722.3	1722.9	1714.4	1701.0	1670.7
7.5°	1574.3	1579.2	1581.7	1600.9	1627.8	1649.3	1667.6	1673.3	1669.4	1658.0	1618.9
10°	1457.0	1460.9	1467.2	1489.5	1523.5	1553.1	1587.6	1607.5	1616.0	1614.1	1570.4
12.5°	1356.4	1360.3	1368.4	1393.8	1434.2	1470.6	1520.9	1545.6	1565.8	1577.9	1530.9
15°	1266.1	1274.5	1282.3	1311.6	1357.0	1404.8	1461.6	1492.8	1524.1	1551.2	1496.1
17.5°	1195.8	1204.1	1208.7	1235.5	1283.7	1342.4	1408.8	1445.6	1484.8	1529.0	1461.6
20°	1155.0	1158.9	1156.9	1172.0	1215.3	1277.5	1356.4	1398.9	1446.3	1508.1	1427.0
22.5°	1143.6	1144.0	1136.8	1135.1	1163.2	1215.6	1300.3	1352.1	1410.1	1494.4	1397.4
25°	1171.3	1170.2	1150.7	1134.7	1137.7	1168.3	1246.2	1306.5	1379.8	1491.5	1374.6
27.5°	1232.9	1235.8	1206.8	1176.8	1147.1	1146.1	1205.1	1268.7	1355.1	1504.9	1364.7
30°	1319.2	1324.1	1293.1	1255.0	1199.3	1153.3	1189.2	1246.2	1339.7	1532.6	1363.1
32.5°	1413.7	1418.8	1395.5	1355.4	1282.3	1197.7	1200.2	1248.2	1339.1	1571.3	1374.3
35°	1514.4	1520.3	1508.1	1474.2	1393.2	1279.4	1242.6	1279.8	1360.3	1630.7	1403.9
37.5°	1626.8	1635.8	1639.1	1606.8	1520.3	1387.3	1311.9	1339.7	1408.2	1713.0	1458.3
40°	1788.7	1801.3	1800.4	1754.1	1665.8	1532.9	1419.2	1426.4	1482.7	1823.2	1545.3
42.5°	2098.9	2101.5	2020.3	1919.6	1826.2	1686.1	1545.6	1539.8	1585.7	1962.7	1673.3
45°	2493.4	2482.6	2302.1	2107.6	1993.7	1862.0	1710.1	1681.5	1716.4	2132.7	1833.6
47.5°	2820.8	2796.1	2568.0	2299.6	2170.9	2053.2	1903.4	1853.1	1872.3	2325.6	2040.9
50°	2934.4	2915.9	2727.0	2459.2	2338.5	2286.5	2141.2	2070.1	2075.4	2555.6	2283.5
52.5°	2910.1	2907.5	2781.4	2564.5	2495.7	2531.5	2478.1	2382.0	2331.1	2811.0	2545.5
55°	2852.4	2858.0	2812.4	2686.9	2675.2	2768.1	2918.2	2847.2	2689.2	3068.8	2816.2
57.5°	2652.0	2666.4	2766.8	2841.1	2964.2	3102.3	3272.8	3252.5	3074.7	3347.2	3138.2
60°	2136.7	2169.9	2439.0	2811.0	3261.6	3693.6	3769.9	3723.0	3472.2	3693.0	3563.3
62.5°	1497.1	1531.6	1851.5	2433.8	3212.8	4361.5	4658.7	4456.3	4042.9	4202.2	4113.6
65°	801.5	818.2	1062.4	1688.6	2712.4	4499.4	5957.7	5649.8	4946.7	4830.1	4584.4
67.5°	442.1	451.2	544.7	852.7	1737.2	3962.1	6785.2	7017.8	6076.2	5248.0	4498.8
69°	399.8	408.2	469.5	645.7	1162.5	3275.9	6704.3	7378.5	6571.5	5206.6	4182.0
70°	390.9	398.8	453.9	595.3	940.9	2700.3	6433.6	7286.3	6689.4	5058.4	3905.8
72.5°	351.9	360.3	413.8	534.6	804.0	1346.2	5096.3	6160.7	6073.2	4386.0	2962.6
75°	328.1	335.9	426.4	523.6	769.8	852.0	3359.7	4540.4	4464.6	3068.1	1597.4
77.5°	140.4	139.8	197.8	443.0	781.3	824.9	1805.3	2836.5	2588.0	1311.3	458.8
80°	93.9	92.3	93.9	130.3	716.4	829.5	945.8	1439.7	1087.5	334.3	226.0
82.5°	80.9	79.5	82.4	79.5	251.9	946.8	804.0	765.7	517.1	189.9	112.1
85°	54.4	52.1	71.0	71.3	118.9	841.2	905.8	646.7	418.4	112.7	55.4
87.5°	26.1	25.4	41.4	50.5	69.7	341.8	1016.2	662.6	422.0	57.7	26.4
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°	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1702.0	1688.6	1675.6	1659.9	1643.7	1625.4	1616.3	1607.2	1604.9	1602.3	1593.2
5°	1655.1	1636.1	1603.6	1567.8	1529.9	1493.1	1465.1	1447.5	1434.2	1427.4	1415.4
7.5°	1594.5	1566.8	1509.8	1447.9	1384.4	1326.3	1276.1	1244.6	1214.6	1200.5	1184.6
10°	1536.8	1495.4	1406.8	1315.6	1224.4	1136.8	1054.4	996.0	944.2	915.1	894.7
12.5°	1487.3	1430.6	1307.9	1184.3	1059.2	934.3	810.9	713.8	632.7	590.0	568.2
15°	1439.1	1370.6	1213.7	1056.9	896.3	726.6	564.4	454.2	387.1	360.3	351.3
17.5°	1395.5	1307.9	1119.2	928.6	728.2	523.0	379.2	318.6	293.0	284.1	281.2
20°	1348.1	1244.3	1021.0	794.4	552.9	365.6	296.2	269.5	259.1	256.4	255.1
22.5°	1302.6	1181.7	927.3	650.6	397.1	282.1	254.5	243.4	241.8	243.9	243.9
25°	1263.8	1125.7	825.9	500.4	291.6	237.5	227.7	225.2	231.3	239.9	241.5
27.5°	1234.8	1079.7	718.1	369.6	232.2	206.6	206.3	210.5	225.7	242.1	245.3
30°	1215.0	1036.1	602.8	266.5	194.8	181.8	187.1	196.1	218.6	241.8	247.9
32.5°	1204.8	1003.8	482.5	206.3	166.8	159.6	168.5	179.5	201.7	223.2	231.3
35°	1212.7	980.0	369.2	172.0	147.3	141.7	150.9	161.6	174.6	183.8	189.9
37.5°	1242.0	970.6	278.6	154.0	134.0	128.7	135.8	142.0	147.3	149.9	152.9
40°	1305.2	980.7	223.2	145.0	126.4	119.8	122.8	125.1	128.4	131.0	132.3
42.5°	1398.3	1010.9	200.1	141.4	122.5	113.1	112.4	113.4	117.6	122.5	123.5
45°	1528.6	1064.4	198.5	143.6	120.5	107.5	104.6	105.9	112.4	119.8	121.2
47.5°	1695.1	1145.8	211.4	150.6	122.2	104.6	99.7	101.3	109.5	119.5	121.2
50°	1896.8	1259.5	233.3	160.6	129.4	105.2	98.2	99.1	107.5	118.5	120.1
52.5°	2135.0	1420.8	257.1	170.5	136.8	109.5	99.3	97.1	104.9	114.7	116.7
55°	2399.9	1627.8	281.5	179.1	140.7	114.7	101.9	94.5	100.0	108.1	109.8
57.5°	2725.0	1917.1	323.9	187.7	143.3	118.2	104.6	91.9	93.9	99.7	100.9
60°	3165.2	2326.2	398.5	201.7	149.2	119.5	104.3	89.6	87.6	90.9	91.6
62.5°	3692.6	2770.6	460.6	219.3	159.0	120.5	102.2	88.0	82.4	82.4	83.0
65°	4005.8	2889.6	426.1	234.0	167.1	119.5	100.0	86.4	78.5	75.0	75.3
67.5°	3740.3	2541.3	365.3	236.9	166.8	115.0	96.4	83.4	74.7	69.1	68.8
69°	3407.6	2192.7	337.8	229.0	159.0	109.2	91.9	80.2	71.7	65.8	65.4
70°	3139.4	1979.9	319.9	220.6	150.6	104.9	88.3	77.2	69.4	63.8	63.2
72.5°	2282.5	1297.4	273.3	189.6	124.1	88.0	76.3	67.7	62.0	58.7	58.0
75°	1140.6	618.7	221.9	153.7	95.2	70.4	62.6	56.7	53.7	53.1	52.8
77.5°	374.6	283.4	158.7	114.7	70.7	55.0	50.5	46.2	45.6	47.5	46.9
80°	206.0	164.9	100.6	75.9	48.2	40.4	39.8	37.4	38.5	41.7	41.1
82.5°	104.9	85.7	62.3	45.6	32.6	29.0	31.5	30.3	31.5	34.5	34.2
85°	51.8	46.9	39.5	27.7	21.6	18.6	22.5	23.5	24.1	26.4	26.4
87.5°	29.9	27.7	20.9	13.0	10.7	9.8	13.0	12.7	15.0	16.3	16.0
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)