

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: P269068

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269068
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: GLEON-AF-02-LED-E1-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 8374 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

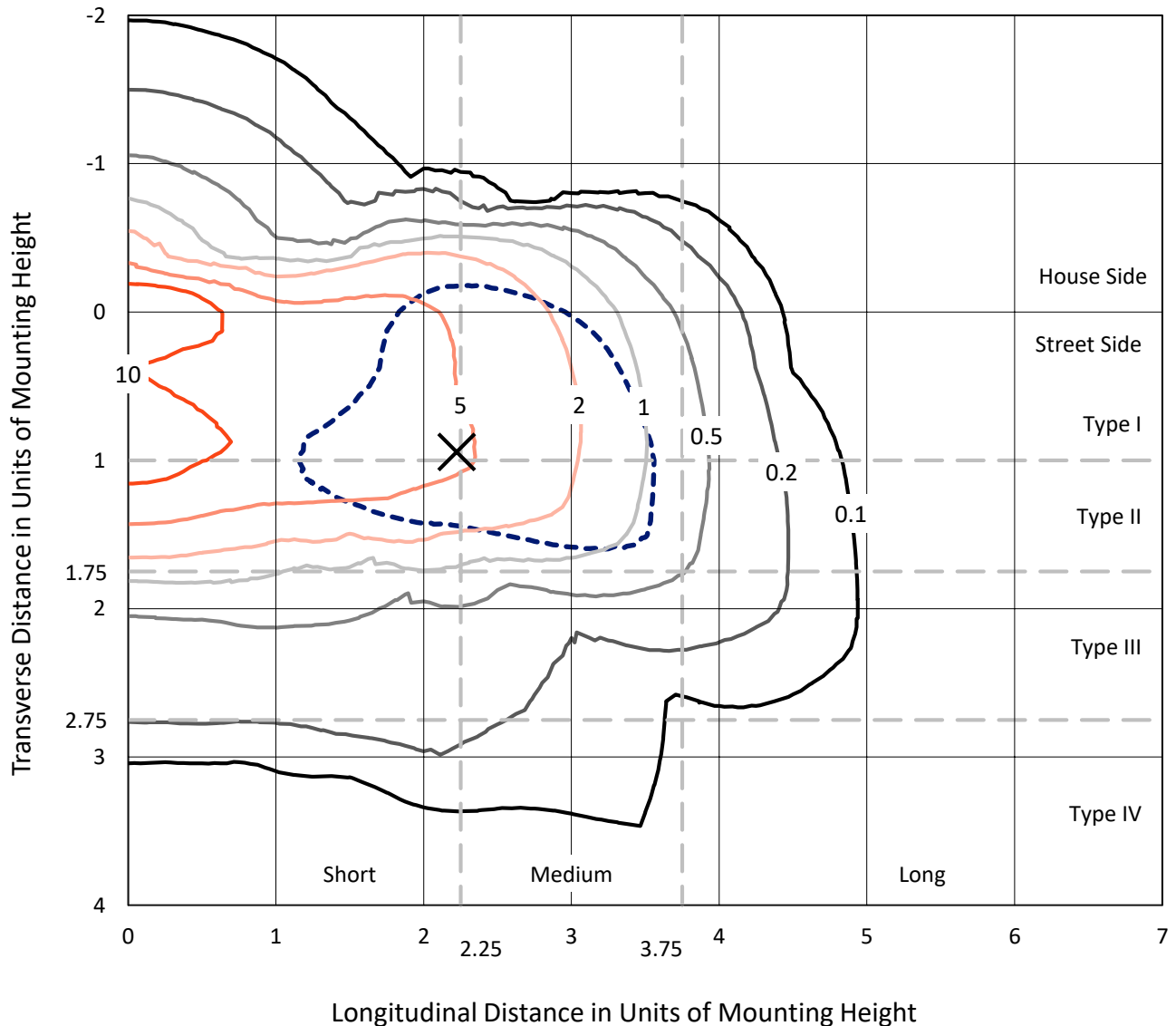


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Iso-Footcandle Lines of Horizontal Illumination

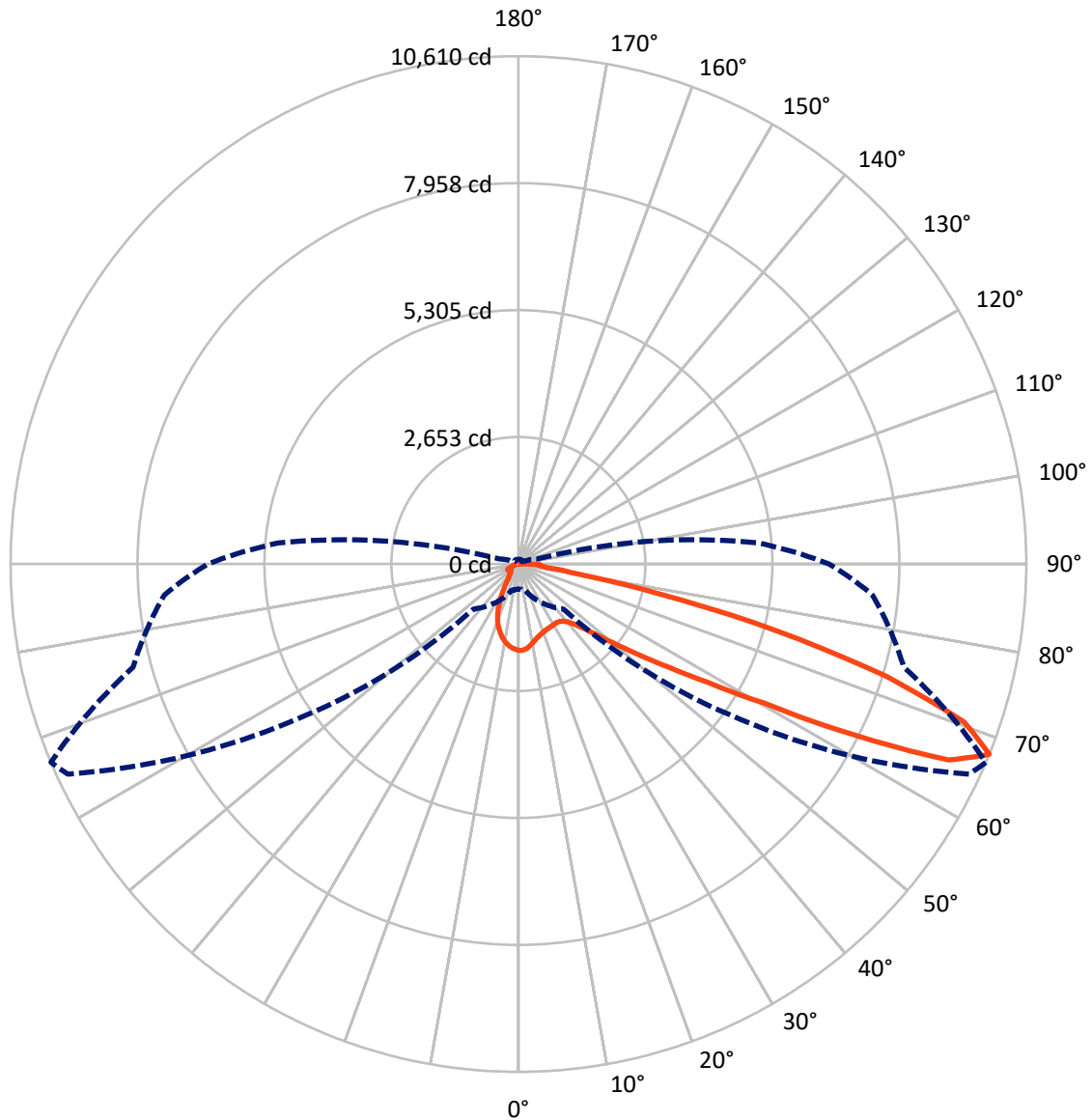
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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	1387.5	0.0	1387.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6986.5	0.0	6986.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	8374.0	0.0	8374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.8
10°-20°	356.6	4.3
20°-30°	483.3	5.8
30°-40°	687.1	8.2
40°-50°	1149.5	13.7
50°-60°	1818.6	21.7
60°-70°	2316.7	27.7
70°-80°	1213.5	14.5
80°-90°	194.6	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°	8374.0	100.0
0°-180°	8374.0	100.0

Coefficient of Utilization



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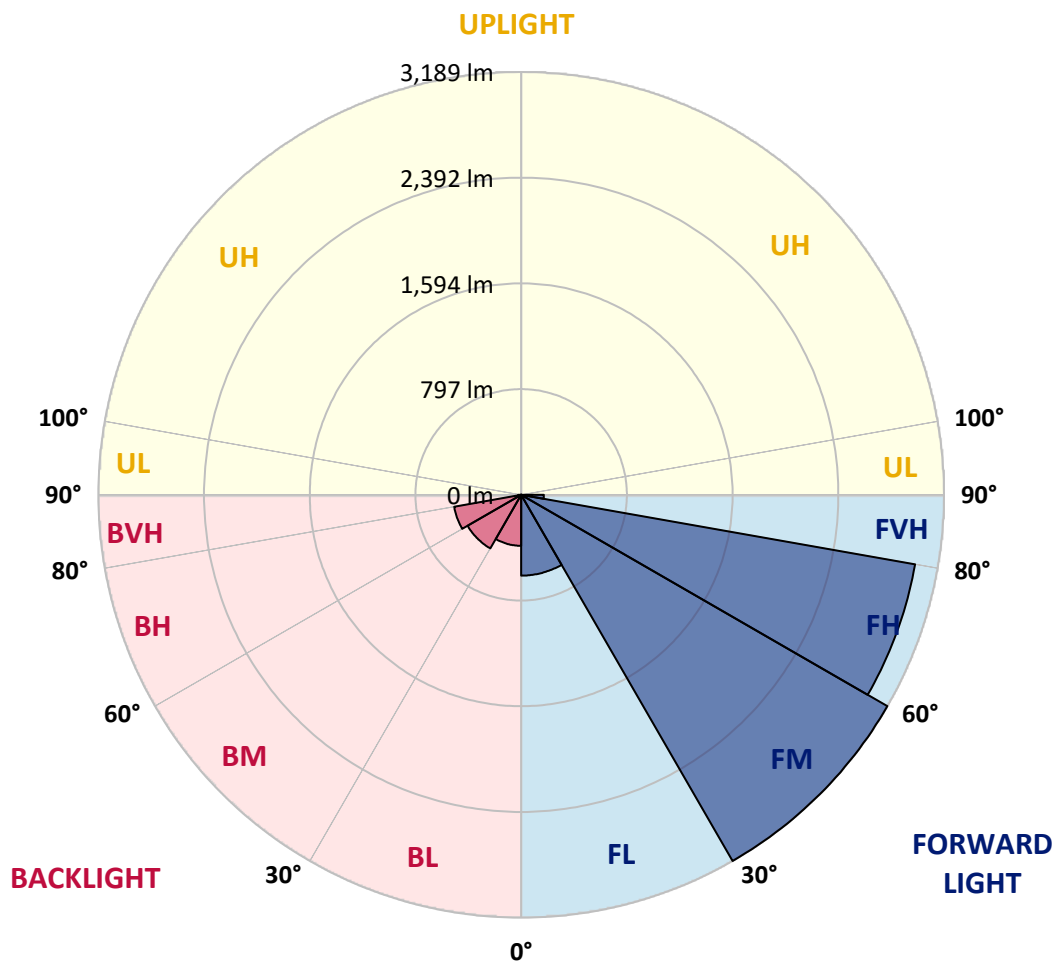
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.4	7.3			
FM (30°-60°)	3189.0	38.1			
FH (60°-80°)	3017.0	36.0			G2/5000
FVH (80°-90°)	171.1	2.0			G2/225
BL (0°-30°)	384.6	4.6	B1/500		
BM (30°-60°)	466.2	5.6	B1/1000		
BH (60°-80°)	513.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	23.5	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°	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2
2.5°	1731.9	1734.7	1743.9	1749.7	1775.7	1786.9	1794.8	1802.4	1803.7	1807.5	1803.7
5°	1550.2	1556.5	1573.3	1592.3	1642.7	1682.3	1724.0	1767.4	1775.3	1803.3	1811.3
7.5°	1409.4	1407.7	1421.7	1444.6	1496.1	1551.1	1624.1	1710.5	1727.4	1790.5	1821.1
10°	1306.6	1305.3	1320.1	1343.8	1392.9	1445.0	1527.5	1645.7	1669.6	1770.3	1830.7
12.5°	1230.6	1230.9	1245.9	1271.9	1321.9	1374.2	1458.0	1582.9	1613.4	1746.8	1840.5
15°	1180.3	1183.5	1195.6	1223.1	1271.9	1324.3	1406.6	1535.7	1570.1	1728.2	1851.6
17.5°	1163.2	1168.7	1172.7	1192.9	1234.7	1287.2	1367.7	1501.1	1537.4	1715.5	1861.6
20°	1178.9	1185.1	1177.3	1184.3	1210.7	1257.0	1337.1	1473.8	1510.9	1700.9	1862.8
22.5°	1246.3	1252.1	1228.9	1208.7	1207.1	1235.1	1312.0	1452.4	1490.7	1690.3	1863.3
25°	1364.9	1368.5	1329.8	1282.6	1236.7	1227.3	1294.2	1437.5	1478.4	1680.6	1855.4
27.5°	1510.2	1513.0	1468.5	1399.1	1307.0	1245.9	1288.0	1428.8	1471.3	1672.5	1842.2
30°	1686.8	1700.5	1640.7	1553.1	1419.0	1300.7	1300.3	1424.3	1463.5	1658.5	1816.2
32.5°	1867.8	1873.5	1832.3	1743.5	1569.6	1397.5	1335.2	1427.5	1461.5	1641.6	1783.1
35°	2051.1	2058.6	2031.7	1960.3	1775.7	1539.1	1402.9	1447.0	1474.3	1635.8	1760.0
37.5°	2288.6	2298.6	2261.4	2178.7	2026.3	1731.2	1515.5	1495.7	1513.5	1652.3	1753.0
40°	2664.0	2659.4	2550.7	2427.8	2300.6	1976.8	1676.5	1578.3	1588.7	1705.5	1774.4
42.5°	3100.9	3089.7	2902.7	2709.4	2602.0	2274.1	1889.7	1721.6	1719.5	1810.4	1850.0
45°	3449.4	3440.2	3271.7	3033.5	2947.7	2612.7	2165.2	1935.0	1919.8	1976.8	1989.6
47.5°	3638.0	3638.6	3541.5	3346.9	3344.8	3043.1	2518.9	2244.0	2217.6	2244.3	2230.9
50°	3572.0	3580.7	3570.4	3508.4	3707.5	3607.1	2981.0	2674.8	2621.4	2647.8	2595.5
52.5°	3252.5	3263.5	3324.6	3419.7	3859.8	4288.9	3660.0	3209.9	3147.9	3138.4	3080.2
55°	2685.8	2699.4	2824.2	3082.3	3733.0	4746.9	4731.3	3892.0	3793.4	3703.7	3679.0
57.5°	1851.2	1874.0	2074.6	2457.9	3323.0	4885.3	6006.7	4864.6	4663.9	4350.9	4356.6
60°	1043.6	1069.9	1306.6	1654.7	2495.5	4734.8	6977.2	6337.5	5913.9	5108.7	5151.6
62.5°	663.6	692.1	871.7	1149.7	1497.4	3925.6	7374.9	8385.4	7847.4	6042.7	6084.8
65°	537.2	549.7	634.4	949.0	1087.3	2365.0	7073.1	10072.3	9871.7	7228.3	7031.8
67.5°	524.4	528.7	572.4	796.5	1042.8	1329.3	5641.7	10387.8	10610.4	8335.5	7426.1
70°	518.2	532.8	645.1	760.2	998.6	1121.2	3390.4	9523.1	9874.4	8624.8	6901.3
72.5°	251.4	250.6	324.6	687.6	1124.9	1162.9	1741.9	7705.3	8057.9	7472.5	5671.1
75°	202.7	185.4	177.1	252.0	1081.5	1200.9	1110.0	5301.8	5557.1	5009.9	3486.1
77.5°	192.4	171.8	157.4	157.7	457.1	1273.5	940.3	2934.5	3008.8	2263.0	955.2
80°	159.4	140.4	130.1	146.7	221.3	1212.8	1016.7	1328.1	1218.6	555.8	318.0
82.5°	110.8	100.8	97.8	123.1	177.1	864.3	1182.3	713.6	598.5	278.4	196.2
85°	70.5	60.2	67.0	89.7	137.9	398.8	1217.8	556.2	442.2	176.7	110.8
87.5°	32.6	26.4	33.1	49.5	90.0	137.5	1158.8	624.9	455.5	93.3	69.8
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°	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2	1806.2
2.5°	1807.1	1799.2	1793.0	1781.5	1768.7	1756.2	1745.1	1731.2	1726.9	1723.3	1729.1
5°	1812.9	1805.1	1782.2	1746.8	1707.6	1670.8	1634.0	1602.7	1583.3	1572.6	1578.7
7.5°	1821.6	1810.4	1763.4	1698.1	1627.4	1563.1	1496.5	1443.2	1404.1	1385.5	1390.8
10°	1829.4	1807.8	1731.2	1633.2	1530.1	1434.1	1329.3	1242.5	1178.1	1144.4	1152.5
12.5°	1832.7	1798.3	1686.1	1552.4	1410.7	1270.3	1115.8	986.1	893.6	859.8	852.8
15°	1836.0	1787.6	1636.5	1460.1	1266.5	1067.8	851.6	696.2	619.4	602.6	598.8
17.5°	1836.9	1769.1	1580.4	1360.3	1097.5	827.1	582.2	483.6	483.9	511.2	514.5
20°	1828.1	1741.5	1512.2	1236.0	895.3	572.0	399.7	382.8	445.2	513.3	521.6
22.5°	1808.3	1704.7	1435.0	1091.0	663.6	376.6	309.2	327.9	408.4	491.8	501.3
25°	1783.1	1660.1	1343.8	923.0	439.5	269.2	259.3	282.1	336.5	392.3	397.7
27.5°	1748.8	1607.2	1241.4	730.5	285.3	221.7	228.3	243.6	266.0	290.7	293.1
30°	1704.7	1544.0	1132.0	532.8	215.6	199.5	208.9	217.2	226.7	240.7	242.1
32.5°	1653.9	1483.3	1019.5	367.9	191.2	187.8	195.3	199.5	206.9	215.6	216.4
35°	1611.3	1425.5	903.2	260.1	180.9	179.2	184.2	185.8	192.9	202.4	203.1
37.5°	1586.9	1378.4	783.0	209.8	173.8	171.3	174.4	174.4	184.2	198.3	200.3
40°	1588.7	1352.4	662.8	189.5	168.1	164.7	165.2	165.2	178.0	193.2	194.6
42.5°	1633.7	1359.0	556.2	181.6	163.5	159.8	157.7	159.0	169.7	179.7	180.5
45°	1739.4	1405.7	456.2	176.7	159.0	157.7	153.3	152.8	156.9	161.4	161.4
47.5°	1912.9	1497.7	388.5	173.5	155.2	154.9	149.5	144.1	143.6	145.3	145.3
50°	2194.9	1656.4	343.2	169.7	152.8	149.5	143.3	135.0	132.1	133.4	133.4
52.5°	2617.8	1939.3	325.8	164.7	147.4	142.0	135.0	126.8	124.2	124.8	124.8
55°	3172.4	2373.6	323.3	159.0	141.7	132.9	127.2	121.0	118.0	118.9	118.9
57.5°	3850.0	2974.5	367.5	149.8	133.8	123.8	120.6	116.4	114.4	115.6	115.3
60°	4673.8	3760.8	545.1	140.4	125.9	115.6	115.6	112.3	110.8	111.8	111.5
62.5°	5622.8	4663.9	766.4	133.4	117.7	109.1	110.8	109.1	107.3	108.2	107.7
65°	6464.4	5252.3	717.7	128.0	109.5	102.9	105.7	104.9	103.7	104.5	104.1
67.5°	6488.6	5034.3	403.0	122.2	101.6	96.7	100.8	100.3	99.5	100.3	99.9
70°	5790.8	4250.9	227.1	111.5	93.3	89.2	95.0	94.6	93.8	95.4	95.0
72.5°	4639.6	3084.8	165.9	98.3	85.1	81.3	87.9	87.6	87.6	90.0	88.8
75°	2669.8	1587.3	132.6	84.3	76.4	73.5	79.3	79.7	80.5	83.8	81.3
77.5°	761.0	494.7	108.2	71.4	65.7	64.4	70.2	71.1	71.4	75.2	71.9
80°	282.8	228.0	89.2	59.8	53.7	54.1	59.5	60.6	61.2	64.9	60.6
82.5°	180.5	150.3	72.3	46.3	42.1	41.7	48.2	49.9	49.9	50.3	47.9
85°	105.3	90.0	54.4	33.4	29.7	28.4	35.9	38.7	37.5	36.7	35.2
87.5°	70.5	62.0	33.4	18.5	16.1	15.4	21.1	23.1	22.3	21.1	19.9
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)