

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: P193620

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193620
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-SL2-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 7865 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

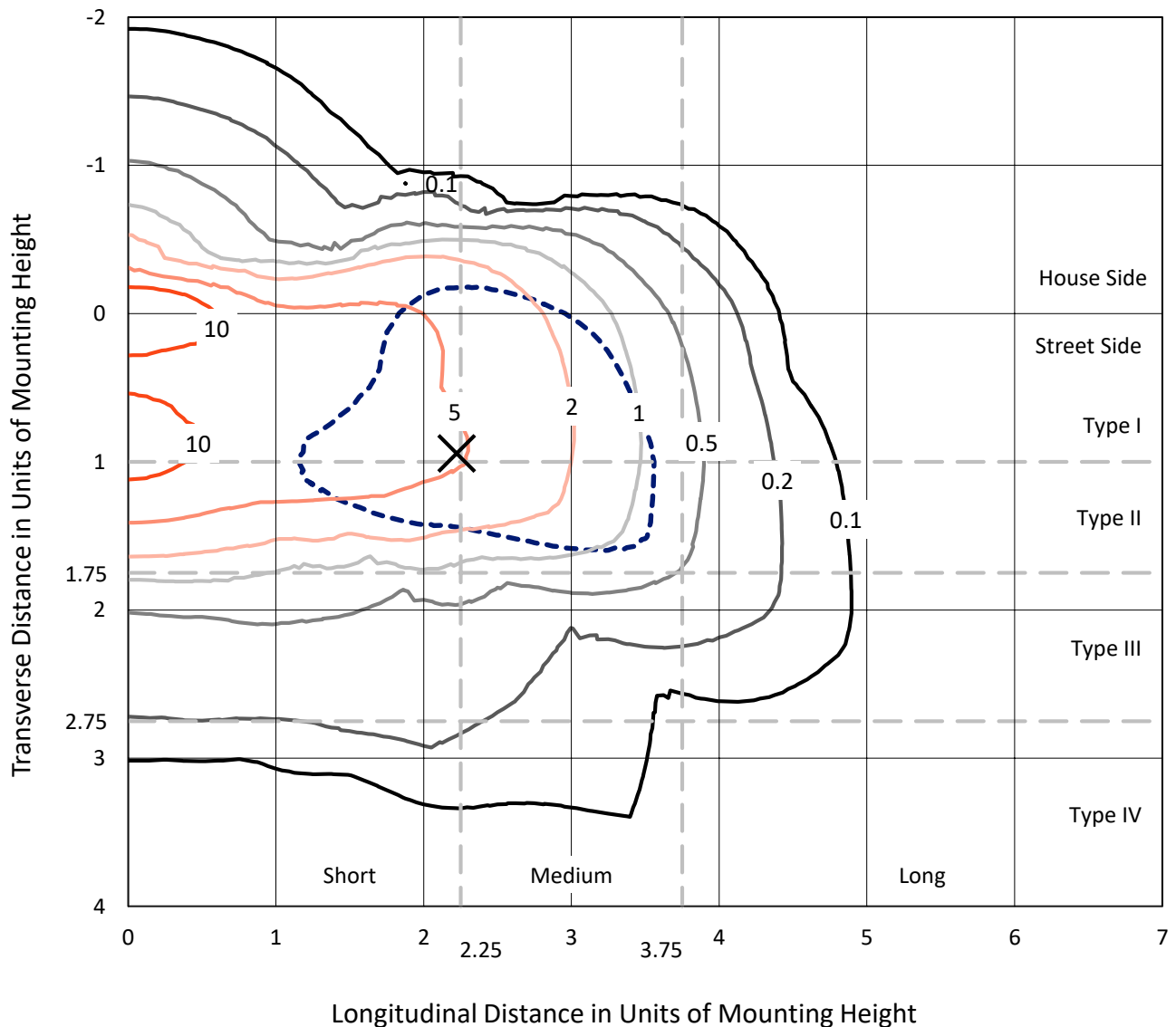
Input Watts (W): 85
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193620
 CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030-800

Iso-Footcandle Lines of Horizontal Illumination

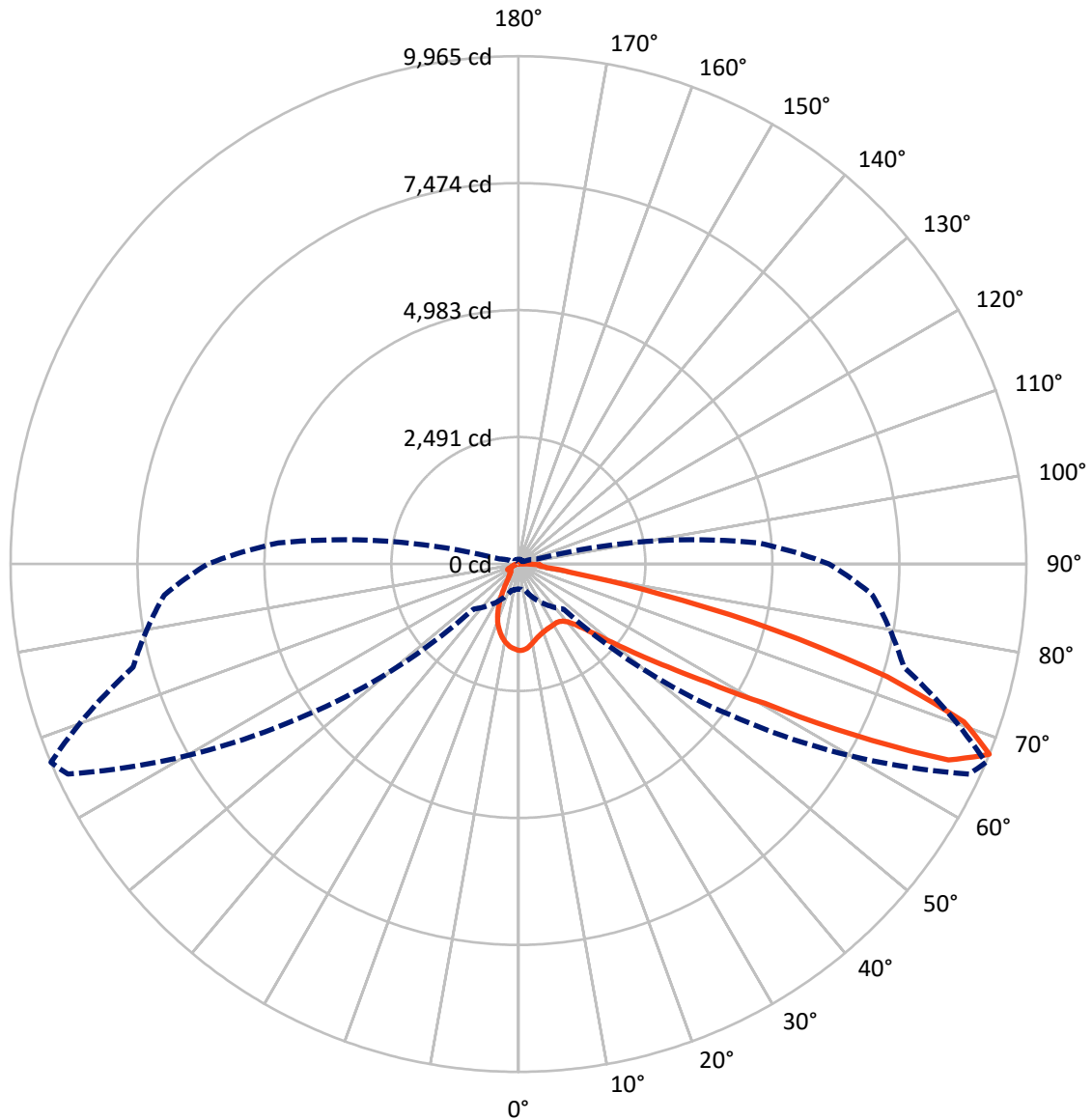
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193620
CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.1	0.0	1303.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6561.9	0.0	6561.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	7865.0	0.0	7865.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.8
10°-20°	334.9	4.3
20°-30°	454.0	5.8
30°-40°	645.3	8.2
40°-50°	1079.7	13.7
50°-60°	1708.0	21.7
60°-70°	2175.9	27.7
70°-80°	1139.7	14.5
80°-90°	182.8	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°	7865.0	100.0
0°-180°	7865.0	100.0



REPORT NUMBER: P193620

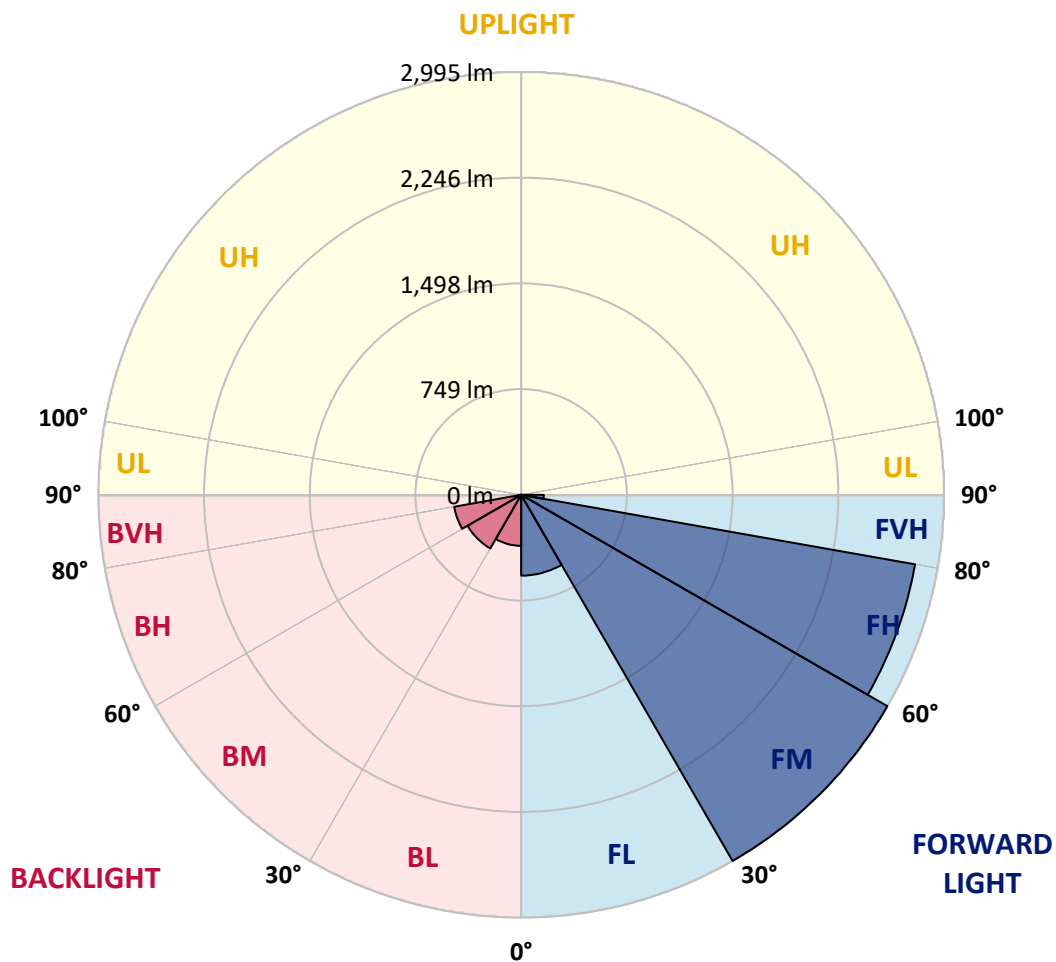
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.4	7.3			
FM (30°-60°)	2995.2	38.1			
FH (60°-80°)	2833.6	36.0			G2/5000
FVH (80°-90°)	160.7	2.0			G2/225
BL (0°-30°)	361.2	4.6	B1/500		
BM (30°-60°)	437.9	5.6	B1/1000		
BH (60°-80°)	482.0	6.1	B1/500		G1/500
BVH (80°-90°)	22.1	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-G2

Type II Short





REPORT NUMBER: P193620

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1626.6	1629.4	1637.9	1643.3	1667.8	1678.2	1685.6	1693.0	1694.1	1697.6	1694.1
5°	1456.0	1461.8	1477.7	1495.6	1542.9	1580.1	1619.3	1660.0	1667.4	1693.7	1701.1
7.5°	1323.7	1322.2	1335.4	1356.7	1405.2	1456.8	1525.4	1606.5	1622.4	1681.7	1710.4
10°	1227.2	1226.0	1240.0	1262.1	1308.2	1357.1	1434.7	1545.6	1568.1	1662.7	1719.3
12.5°	1155.8	1156.2	1170.1	1194.6	1241.5	1290.8	1369.5	1486.6	1515.3	1640.6	1728.7
15°	1108.5	1111.6	1122.8	1148.8	1194.6	1243.8	1321.0	1442.4	1474.6	1623.2	1739.1
17.5°	1092.6	1097.6	1101.5	1120.5	1159.7	1208.9	1284.6	1409.8	1444.0	1611.1	1748.4
20°	1107.3	1113.1	1105.8	1112.4	1137.2	1180.6	1255.9	1384.2	1419.1	1597.6	1749.6
22.5°	1170.5	1176.0	1154.2	1135.2	1133.7	1160.1	1232.2	1364.1	1400.1	1587.5	1750.0
25°	1281.8	1285.3	1248.9	1204.7	1161.6	1152.7	1215.5	1350.1	1388.5	1578.6	1742.6
27.5°	1418.4	1421.1	1379.2	1314.0	1227.5	1170.1	1209.7	1342.0	1381.9	1570.8	1730.2
30°	1584.4	1597.2	1540.9	1458.7	1332.7	1221.7	1221.3	1337.7	1374.5	1557.6	1705.8
32.5°	1754.3	1759.7	1720.9	1637.5	1474.2	1312.5	1253.9	1340.8	1372.6	1541.7	1674.7
35°	1926.5	1933.4	1908.2	1841.1	1667.8	1445.5	1317.5	1359.0	1384.6	1536.3	1653.0
37.5°	2149.5	2158.8	2123.9	2046.3	1903.2	1625.9	1423.4	1404.8	1421.5	1551.8	1646.4
40°	2502.0	2497.8	2395.8	2280.2	2160.7	1856.6	1574.7	1482.4	1492.1	1601.8	1666.6
42.5°	2912.4	2901.9	2726.2	2544.7	2443.9	2135.9	1774.8	1617.0	1615.0	1700.3	1737.6
45°	3239.7	3231.2	3072.9	2849.2	2768.5	2453.9	2033.5	1817.5	1803.1	1856.6	1868.7
47.5°	3417.0	3417.4	3326.2	3143.5	3141.6	2858.1	2365.9	2107.6	2082.8	2108.0	2095.2
50°	3354.9	3363.1	3353.4	3295.2	3482.1	3387.9	2799.9	2512.1	2462.1	2486.9	2437.6
52.5°	3054.7	3065.2	3122.6	3211.8	3625.2	4028.2	3437.5	3014.8	2956.6	2947.7	2893.0
55°	2522.6	2535.4	2652.5	2894.9	3506.2	4458.3	4443.6	3655.5	3562.8	3478.6	3455.4
57.5°	1738.7	1760.1	1948.6	2308.5	3121.0	4588.3	5641.7	4568.9	4380.4	4086.4	4091.8
60°	980.1	1004.9	1227.2	1554.1	2343.8	4447.1	6553.1	5952.4	5554.4	4798.1	4838.4
62.5°	623.3	650.0	818.8	1079.8	1406.3	3686.9	6926.6	7875.7	7370.3	5675.4	5715.0
65°	504.6	516.2	595.7	891.3	1021.2	2221.2	6643.1	9460.1	9271.6	6788.9	6604.3
67.5°	492.6	496.4	537.6	748.2	979.3	1248.5	5298.8	9756.4	9965.4	7828.8	6974.7
70°	486.8	500.3	605.8	714.0	937.8	1053.0	3184.3	8944.2	9274.3	8100.7	6481.8
72.5°	236.2	235.4	304.9	645.8	1056.5	1092.2	1636.0	7236.9	7568.1	7018.2	5326.4
75°	190.4	174.1	166.4	236.6	1015.8	1127.9	1042.5	4979.6	5219.3	4705.4	3274.2
77.5°	180.7	161.3	147.8	148.2	429.4	1196.1	883.1	2756.1	2825.9	2125.4	897.1
80°	149.7	131.9	122.2	137.7	207.9	1139.1	954.9	1247.3	1144.5	522.0	298.6
82.5°	103.9	94.6	91.9	115.6	166.4	811.8	1110.4	670.2	562.0	261.4	184.2
85°	66.3	56.6	62.8	84.2	129.5	374.7	1143.8	522.4	415.4	166.0	103.9
87.5°	30.6	24.8	31.0	46.5	84.6	129.2	1088.3	586.8	427.8	87.7	65.5
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°	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5	1696.5
2.5°	1697.2	1689.9	1684.0	1673.2	1661.2	1649.5	1639.1	1625.9	1622.0	1618.5	1623.9
5°	1702.7	1695.3	1674.0	1640.6	1603.8	1569.2	1534.7	1505.3	1487.0	1476.9	1482.8
7.5°	1710.8	1700.3	1656.1	1594.8	1528.5	1468.0	1405.6	1355.5	1318.7	1301.2	1306.3
10°	1718.2	1698.0	1625.9	1534.0	1437.0	1347.0	1248.5	1167.0	1106.5	1074.7	1082.5
12.5°	1721.3	1689.1	1583.6	1457.9	1324.9	1193.0	1048.0	926.2	839.3	807.5	800.9
15°	1724.4	1679.0	1537.1	1371.4	1189.5	1003.0	799.7	653.9	581.8	565.9	562.4
17.5°	1725.2	1661.6	1484.3	1277.6	1030.9	776.9	546.9	454.2	454.6	480.2	483.3
20°	1717.0	1635.6	1420.3	1160.8	840.9	537.2	375.4	359.5	418.1	482.1	489.9
22.5°	1698.4	1601.0	1347.8	1024.7	623.3	353.7	290.5	308.0	383.6	461.9	470.9
25°	1674.7	1559.2	1262.1	866.8	412.7	252.9	243.6	264.9	316.1	368.5	373.5
27.5°	1642.5	1509.5	1165.9	686.1	268.0	208.3	214.5	228.8	249.8	273.0	275.4
30°	1601.0	1450.2	1063.1	500.3	202.5	187.3	196.3	204.0	212.9	226.1	227.3
32.5°	1553.3	1393.2	957.6	345.6	179.6	176.5	183.5	187.3	194.3	202.5	203.2
35°	1513.4	1338.9	848.2	244.3	169.9	168.3	173.0	174.5	181.1	190.0	190.8
37.5°	1490.5	1294.6	735.4	197.0	163.3	161.0	163.7	163.7	173.0	186.2	188.1
40°	1492.1	1270.2	622.5	178.0	157.9	154.8	155.1	155.1	167.2	181.5	182.7
42.5°	1534.3	1276.4	522.4	170.7	153.6	150.1	148.2	149.3	159.4	168.7	169.5
45°	1633.6	1320.2	428.6	166.0	149.3	148.2	143.9	143.5	147.4	151.6	151.6
47.5°	1796.5	1406.7	365.0	162.9	145.8	145.4	140.4	135.4	135.0	136.5	136.5
50°	2061.4	1555.7	322.3	159.4	143.5	140.4	134.6	126.8	124.1	125.3	125.3
52.5°	2458.6	1821.3	306.0	154.8	138.5	133.4	126.8	119.1	116.7	117.1	117.1
55°	2979.5	2229.4	303.7	149.3	133.0	124.9	119.5	113.6	110.9	111.7	111.7
57.5°	3615.9	2793.7	345.2	140.8	125.7	116.4	113.3	109.4	107.4	108.6	108.2
60°	4389.7	3532.2	512.0	131.9	118.3	108.6	108.6	105.5	103.9	105.1	104.7
62.5°	5281.0	4380.4	719.9	125.3	110.5	102.4	103.9	102.4	100.8	101.6	101.2
65°	6071.4	4933.1	674.1	120.2	102.8	96.6	99.3	98.5	97.4	98.1	97.7
67.5°	6094.3	4728.3	378.5	114.8	95.4	90.8	94.6	94.2	93.5	94.2	93.9
70°	5438.8	3992.5	213.3	104.7	87.7	83.8	89.2	88.8	88.0	89.6	89.2
72.5°	4357.5	2897.2	155.9	92.3	79.9	76.4	82.6	82.2	82.2	84.6	83.4
75°	2507.5	1490.9	124.5	79.1	71.8	69.0	74.5	74.9	75.6	78.7	76.4
77.5°	714.8	464.6	101.6	67.1	61.7	60.5	65.9	66.7	67.1	70.6	67.5
80°	265.7	214.1	83.8	56.2	50.4	50.8	55.9	57.0	57.4	60.9	57.0
82.5°	169.5	141.2	67.9	43.4	39.6	39.2	45.4	46.9	46.9	47.3	45.0
85°	98.9	84.6	51.2	31.4	27.9	26.8	33.7	36.5	35.3	34.5	33.0
87.5°	66.3	58.2	31.4	17.5	15.1	14.4	19.8	21.7	20.9	19.8	18.6
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)