

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: P191169

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191169
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: GLEON-AF-01-LED-E1-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 6376 lumens
Efficiency: N/A
Efficacy: 108.1 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): 59
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

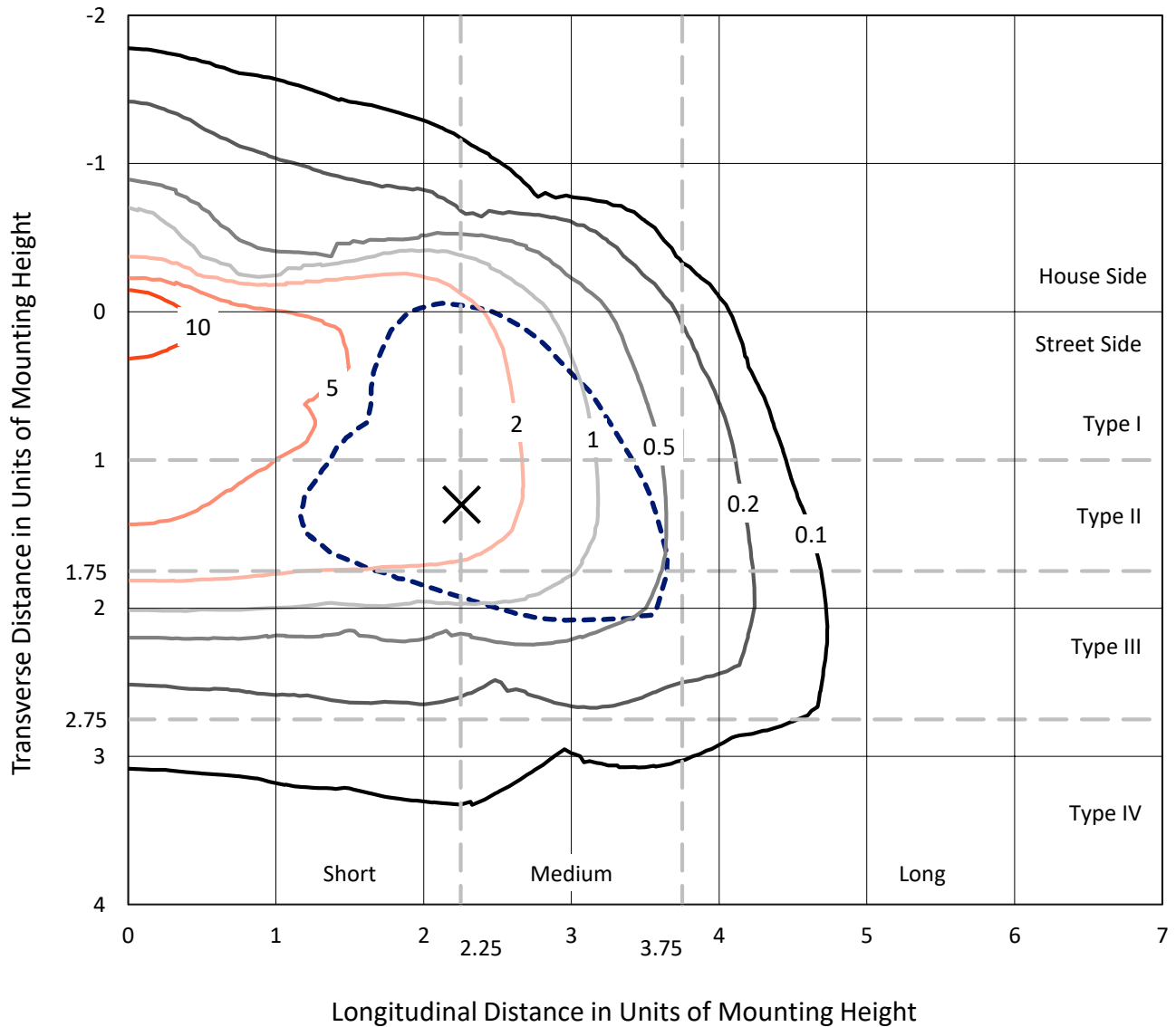


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

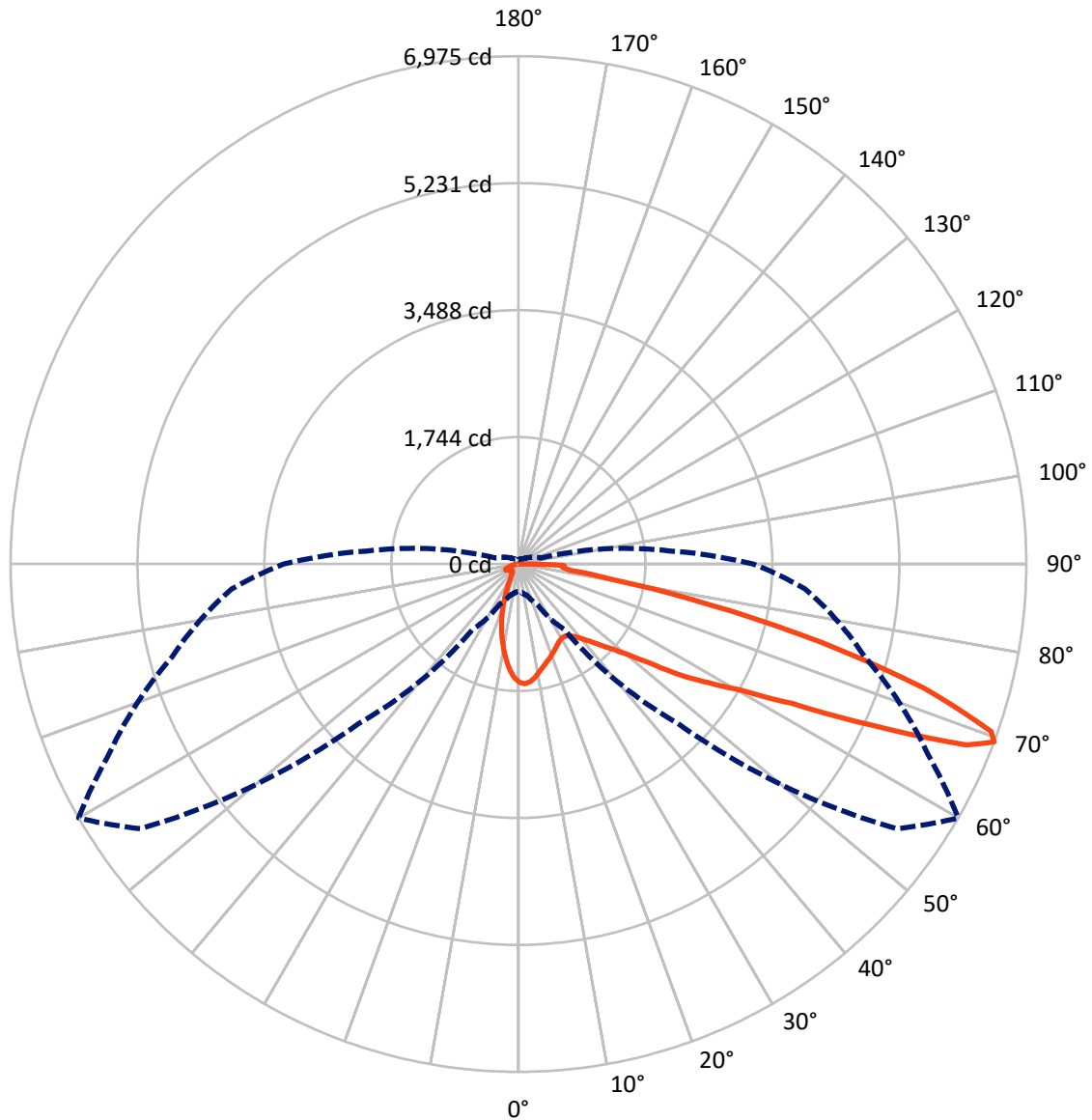


Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Medium - Non-Cutoff

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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	907.1	0.0	907.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5468.9	0.0	5468.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	6376.0	0.0	6376.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	2.2
10°-20°	292.7	4.6
20°-30°	372.9	5.8
30°-40°	512.7	8.0
40°-50°	831.9	13.0
50°-60°	1334.1	20.9
60°-70°	1775.6	27.8
70°-80°	958.7	15.0
80°-90°	160.0	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°	6376.0	100.0
0°-180°	6376.0	100.0



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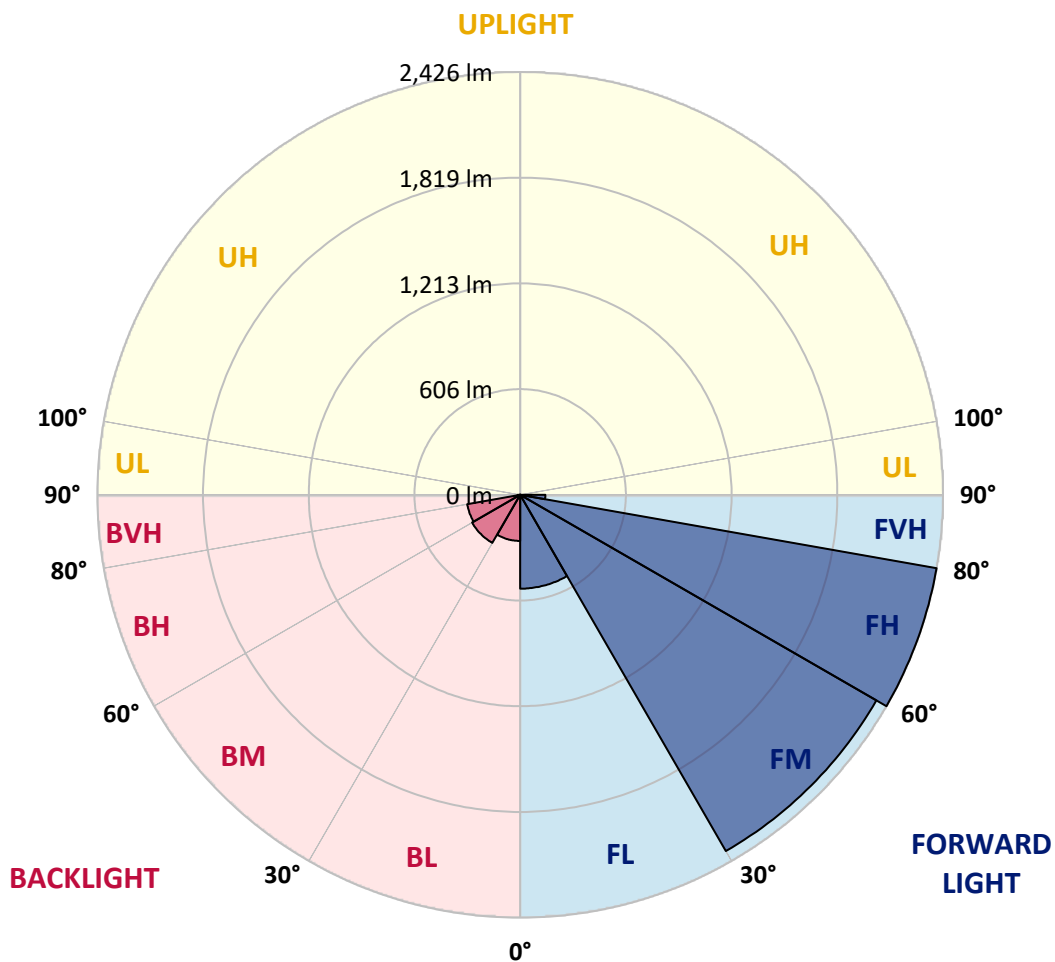
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.4	8.4			
FM (30°-60°)	2360.0	37.0			
FH (60°-80°)	2426.0	38.0			G2/5000
FVH (80°-90°)	144.6	2.3			G2/225
BL (0°-30°)	264.6	4.2	B1/500		
BM (30°-60°)	318.7	5.0	B1/1000		
BH (60°-80°)	308.4	4.8	B1/500		G1/500
BVH (80°-90°)	15.4	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°	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1658.0	1661.7	1660.1	1659.2	1662.0	1657.7	1648.7	1645.9	1641.6	1631.5	1614.2
5°	1595.8	1606.9	1606.2	1614.5	1628.4	1632.1	1628.1	1628.7	1620.7	1608.1	1579.4
7.5°	1488.3	1492.9	1495.3	1513.6	1538.8	1559.1	1576.4	1581.9	1578.2	1567.5	1530.4
10°	1377.4	1381.1	1386.9	1408.2	1440.2	1468.2	1500.9	1519.7	1527.7	1525.8	1484.6
12.5°	1282.2	1286.0	1293.6	1317.7	1355.8	1390.3	1437.8	1461.2	1480.3	1491.7	1447.3
15°	1196.9	1204.9	1212.3	1240.0	1282.9	1328.1	1381.7	1411.3	1440.8	1466.4	1414.3
17.5°	1130.4	1138.3	1142.7	1167.9	1213.5	1269.0	1331.8	1366.6	1403.6	1445.4	1381.7
20°	1091.9	1095.6	1093.7	1107.9	1148.9	1207.7	1282.2	1322.6	1367.2	1425.8	1349.1
22.5°	1081.1	1081.4	1074.6	1073.1	1099.6	1149.2	1229.3	1278.2	1333.0	1412.8	1321.0
25°	1107.2	1106.3	1087.9	1072.8	1075.5	1104.5	1178.1	1235.1	1304.4	1410.0	1299.5
27.5°	1165.4	1168.2	1140.8	1112.5	1084.4	1083.5	1139.3	1199.4	1280.9	1422.6	1290.2
30°	1247.1	1251.7	1222.4	1186.4	1133.7	1090.4	1124.2	1178.1	1266.5	1448.8	1288.7
32.5°	1336.4	1341.4	1319.2	1281.2	1212.3	1132.2	1134.7	1180.0	1265.9	1485.5	1299.1
35°	1431.6	1437.1	1425.8	1393.7	1317.0	1209.5	1174.8	1209.8	1286.0	1541.6	1327.2
37.5°	1537.9	1546.5	1549.6	1519.1	1437.1	1311.5	1240.3	1266.5	1331.2	1619.4	1378.6
40°	1690.9	1702.9	1702.0	1658.3	1574.8	1449.1	1341.7	1348.5	1401.7	1723.6	1460.9
42.5°	1984.1	1986.6	1910.0	1814.7	1726.3	1594.0	1461.2	1455.7	1499.0	1855.4	1581.9
45°	2357.2	2347.0	2176.3	1992.5	1884.7	1760.2	1616.7	1589.6	1622.6	2016.2	1733.4
47.5°	2666.7	2643.3	2427.7	2173.9	2052.2	1941.0	1799.4	1751.9	1770.1	2198.5	1929.3
50°	2774.1	2756.6	2577.9	2324.8	2210.8	2161.6	2024.2	1957.0	1962.0	2416.0	2158.8
52.5°	2751.1	2748.6	2629.4	2424.3	2359.3	2393.2	2342.7	2251.8	2203.7	2657.4	2406.4
55°	2696.6	2701.8	2658.6	2540.1	2529.0	2616.8	2758.8	2691.6	2542.2	2901.1	2662.3
57.5°	2507.2	2520.7	2615.6	2685.8	2802.2	2932.8	3093.9	3074.8	2906.6	3164.4	2966.7
60°	2019.9	2051.3	2305.7	2657.4	3083.4	3491.8	3563.9	3519.6	3282.3	3491.2	3368.6
62.5°	1415.3	1447.9	1750.4	2300.8	3037.2	4123.2	4404.1	4212.8	3822.1	3972.6	3888.8
65°	757.7	773.4	1004.4	1596.4	2564.1	4253.5	5632.2	5341.0	4676.4	4566.1	4333.9
67.5°	418.0	426.6	515.0	806.1	1642.2	3745.6	6414.5	6634.3	5744.3	4961.3	4252.9
69°	377.9	386.0	443.9	610.5	1099.0	3097.0	6338.1	6975.3	6212.4	4922.2	3953.5
70°	369.6	377.0	429.0	562.7	889.6	2552.8	6082.2	6888.1	6323.9	4782.1	3692.3
72.5°	332.7	340.6	391.2	505.4	760.2	1272.7	4817.8	5824.1	5741.5	4146.3	2800.6
75°	310.2	317.5	403.1	495.0	727.8	805.5	3176.2	4292.3	4220.6	2900.5	1510.2
77.5°	132.8	132.2	187.0	418.9	738.6	779.9	1706.7	2681.5	2446.5	1239.7	433.6
80°	88.7	87.2	88.7	123.2	677.3	784.2	894.2	1361.0	1028.1	316.0	213.8
82.5°	76.4	75.2	77.9	75.2	238.0	895.1	760.2	723.8	488.8	179.5	106.0
85°	51.5	49.3	67.1	67.4	112.4	795.2	856.2	611.4	395.5	106.6	52.4
87.5°	24.7	24.0	39.1	47.8	65.9	323.0	960.7	626.5	398.8	54.5	25.0
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°	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8	1624.8
2.5°	1609.0	1596.4	1584.0	1569.3	1553.9	1536.7	1528.0	1519.4	1517.2	1514.8	1506.1
5°	1564.7	1546.8	1516.0	1482.2	1446.4	1411.6	1385.1	1368.5	1355.8	1349.4	1337.9
7.5°	1507.3	1481.2	1427.3	1368.8	1308.7	1253.8	1206.5	1176.6	1148.3	1135.0	1119.9
10°	1452.9	1413.7	1329.9	1243.7	1157.5	1074.6	996.7	941.5	892.6	865.2	845.8
12.5°	1406.0	1352.4	1236.3	1119.6	1001.4	883.3	766.6	674.8	598.1	557.8	537.2
15°	1360.4	1295.8	1147.3	999.1	847.3	686.8	533.5	429.3	365.9	340.6	332.0
17.5°	1319.2	1236.3	1058.0	877.8	688.3	494.4	358.5	301.3	276.9	268.6	265.8
20°	1274.5	1176.3	965.3	750.9	522.7	345.6	280.0	254.7	244.9	242.4	241.2
22.5°	1231.4	1117.2	876.6	615.1	375.4	266.7	240.6	230.1	228.5	230.7	230.7
25°	1194.7	1064.2	780.8	473.1	275.7	224.5	215.3	212.9	218.7	226.7	228.2
27.5°	1167.3	1020.7	678.8	349.2	219.6	195.3	195.0	199.0	213.5	228.8	231.9
30°	1148.6	979.5	569.8	252.0	184.2	171.9	176.8	185.5	206.6	228.5	234.4
32.5°	1139.0	949.0	456.1	195.0	157.7	150.9	159.3	169.7	190.7	210.9	218.7
35°	1146.4	926.5	348.9	162.6	139.2	134.0	142.6	152.7	165.1	173.7	179.5
37.5°	1174.1	917.6	263.3	145.7	126.5	121.6	128.5	134.3	139.2	141.7	144.4
40°	1233.9	927.1	210.9	137.1	119.5	113.3	116.1	118.3	121.3	123.8	125.0
42.5°	1322.0	955.7	189.1	133.7	115.8	106.9	106.3	107.2	111.2	115.8	116.7
45°	1445.1	1006.3	187.6	135.8	114.0	101.7	98.9	100.1	106.3	113.3	114.6
47.5°	1602.6	1083.2	199.9	142.3	115.5	98.9	94.2	95.7	103.5	113.0	114.6
50°	1793.2	1190.7	220.5	151.8	122.2	99.5	92.7	93.6	101.7	112.1	113.6
52.5°	2018.4	1343.2	243.1	161.1	129.4	103.5	93.9	91.8	99.2	108.4	110.3
55°	2268.7	1538.8	266.1	169.4	133.1	108.4	96.4	89.3	94.5	102.3	103.8
57.5°	2576.1	1812.3	306.2	177.4	135.5	111.8	98.9	86.8	88.7	94.2	95.4
60°	2992.2	2199.1	376.7	190.7	141.1	113.0	98.5	84.7	82.9	85.9	86.5
62.5°	3490.9	2619.3	435.5	207.2	150.3	114.0	96.7	83.2	77.9	77.9	78.6
65°	3786.9	2731.7	402.8	221.2	158.0	113.0	94.5	81.6	74.3	70.9	71.2
67.5°	3535.8	2402.4	345.2	223.9	157.7	108.7	91.1	78.9	70.6	65.3	65.0
69°	3221.4	2072.9	319.4	216.6	150.3	103.2	86.8	75.8	67.7	62.2	61.9
70°	2967.9	1871.7	302.5	208.5	142.3	99.2	83.5	73.0	65.6	60.4	59.7
72.5°	2157.9	1226.5	258.4	179.2	117.3	83.2	72.1	64.0	58.5	55.4	54.8
75°	1078.3	584.9	209.7	145.4	89.9	66.5	59.1	53.6	50.8	50.2	49.9
77.5°	354.2	268.0	150.0	108.4	66.8	52.1	47.8	43.8	43.2	45.0	44.4
80°	194.7	155.9	95.1	71.8	45.6	38.2	37.5	35.4	36.3	39.4	38.8
82.5°	99.2	81.0	58.8	43.2	30.8	27.4	29.9	28.6	29.9	32.6	32.3
85°	49.0	44.4	37.2	26.2	20.4	17.6	21.3	22.2	22.8	25.0	25.0
87.5°	28.3	26.2	19.7	12.3	10.1	9.2	12.3	12.0	14.2	15.4	15.1
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)