

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: P191870

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191870
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-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 7861 lumens
Efficiency: N/A
Efficacy: 119.1 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

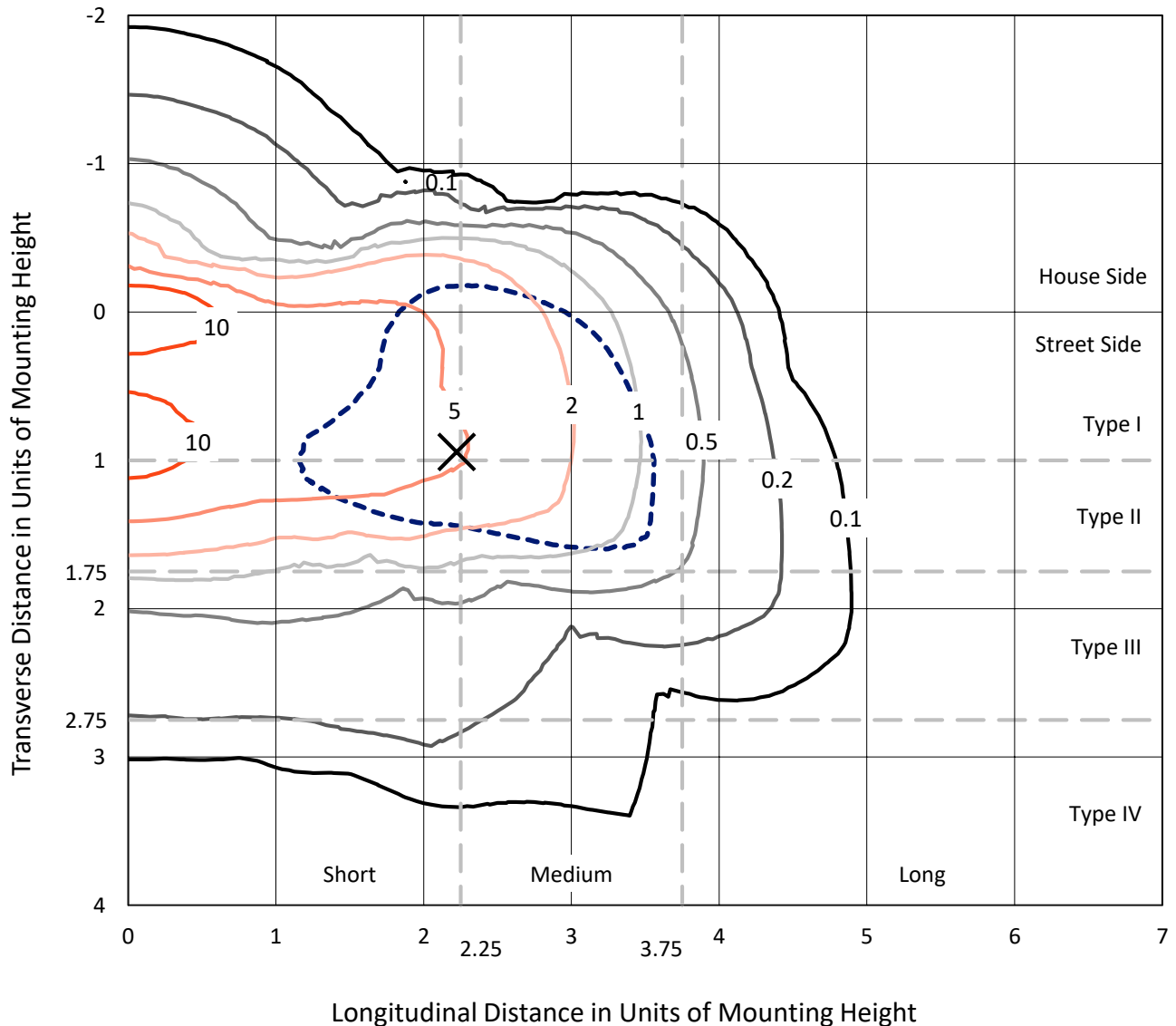
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

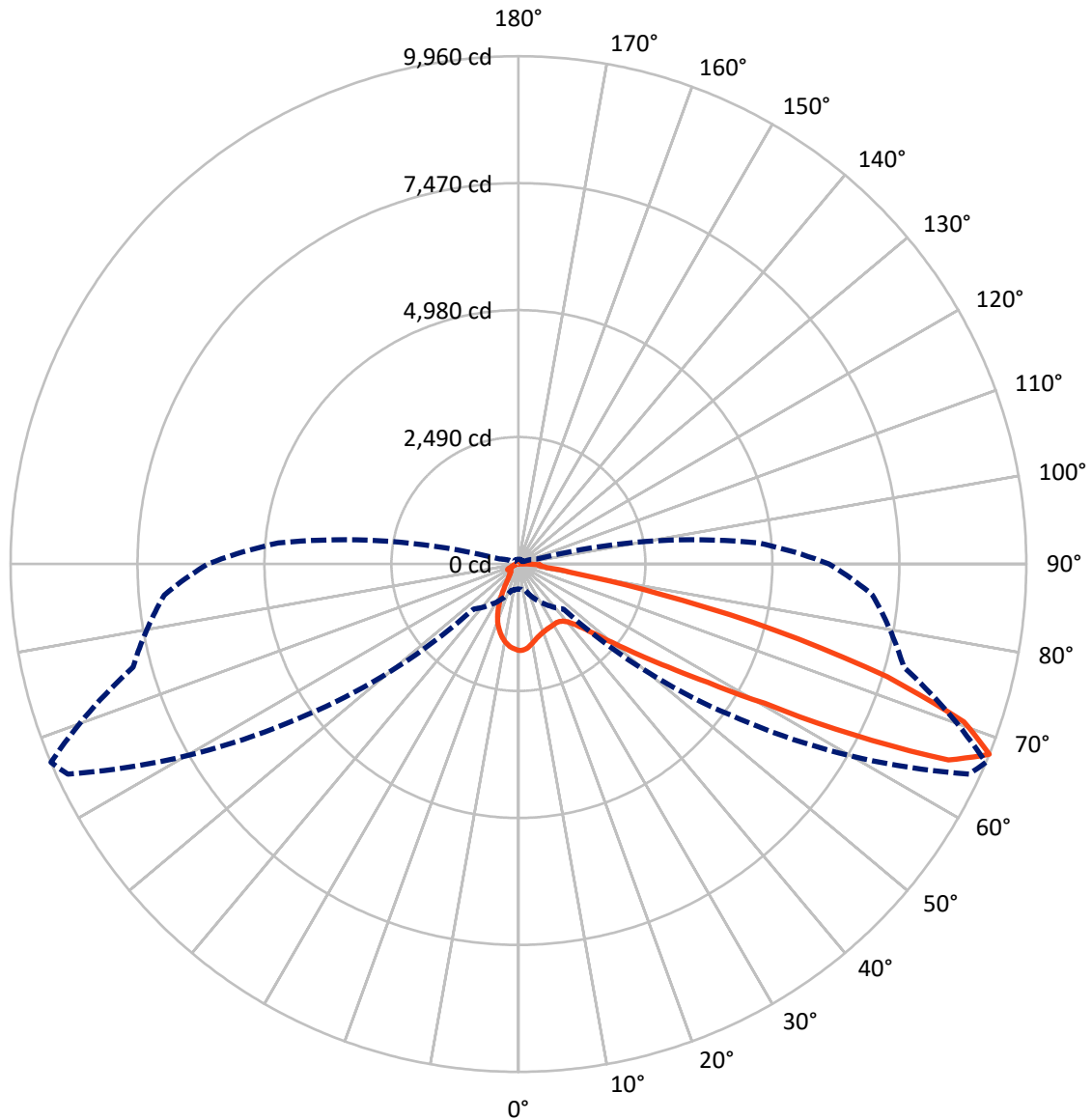
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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	1302.5	0.0	1302.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6558.5	0.0	6558.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	7861.0	0.0	7861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.8
10°-20°	334.7	4.3
20°-30°	453.7	5.8
30°-40°	645.0	8.2
40°-50°	1079.1	13.7
50°-60°	1707.2	21.7
60°-70°	2174.8	27.7
70°-80°	1139.1	14.5
80°-90°	182.7	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°	7861.0	100.0
0°-180°	7861.0	100.0

Coefficient of Utilization



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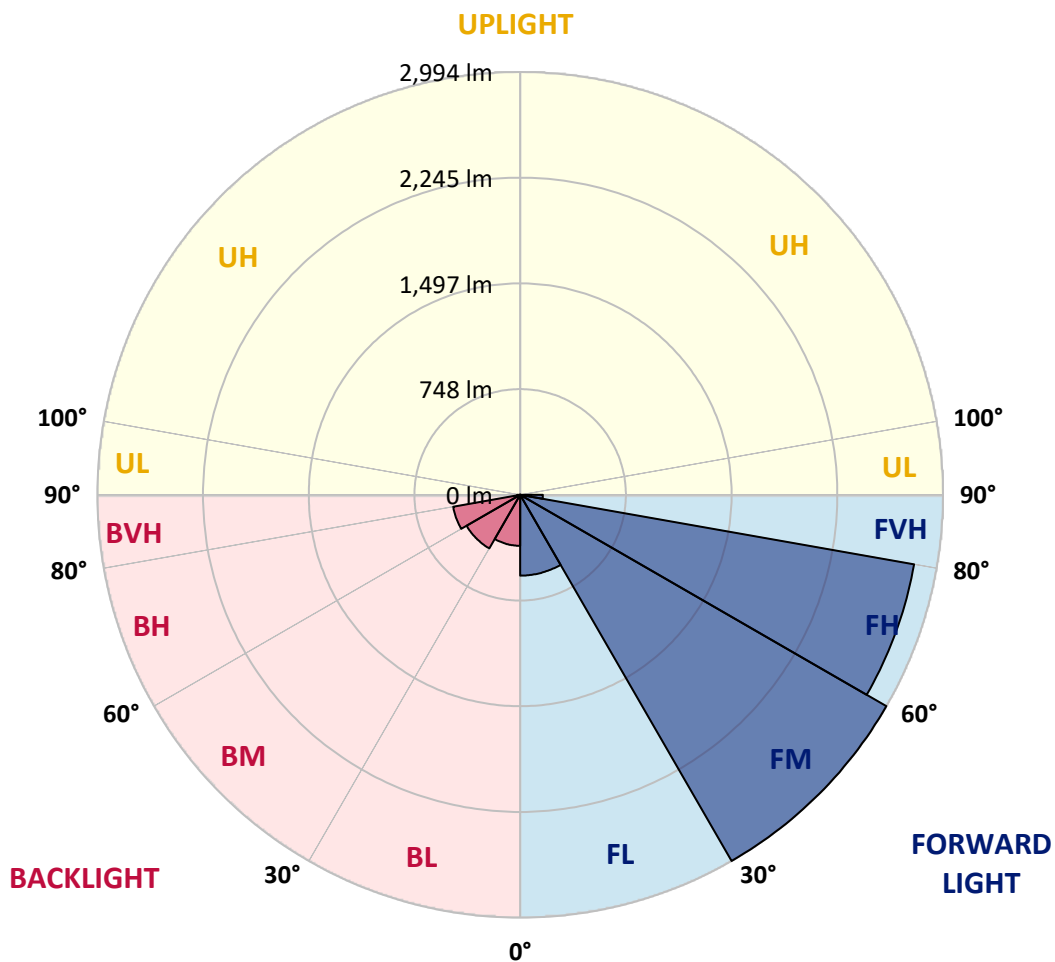
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.1	7.3			
FM (30°-60°)	2993.6	38.1			
FH (60°-80°)	2832.1	36.0			G2/5000
FVH (80°-90°)	160.6	2.0			G2/225
BL (0°-30°)	361.0	4.6	B1/500		
BM (30°-60°)	437.7	5.6	B1/1000		
BH (60°-80°)	481.7	6.1	B1/500		G1/500
BVH (80°-90°)	22.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
2.5°	1625.8	1628.5	1637.1	1642.5	1666.9	1677.4	1684.7	1692.1	1693.3	1696.8	1693.3
5°	1455.3	1461.1	1477.0	1494.8	1542.1	1579.3	1618.5	1659.2	1666.5	1692.9	1700.3
7.5°	1323.1	1321.5	1334.7	1356.0	1404.5	1456.0	1524.6	1605.7	1621.6	1680.9	1709.6
10°	1226.5	1225.4	1239.3	1261.4	1307.6	1356.4	1433.9	1544.8	1567.3	1661.9	1718.5
12.5°	1155.2	1155.6	1169.6	1194.0	1240.9	1290.1	1368.8	1485.9	1514.6	1639.8	1727.8
15°	1107.9	1111.0	1122.3	1148.2	1194.0	1243.2	1320.3	1441.7	1473.9	1622.3	1738.2
17.5°	1092.0	1097.1	1100.9	1119.9	1159.1	1208.3	1283.9	1409.1	1443.2	1610.3	1747.5
20°	1106.8	1112.6	1105.2	1111.8	1136.6	1180.0	1255.2	1383.5	1418.4	1596.7	1748.7
22.5°	1169.9	1175.4	1153.7	1134.7	1133.1	1159.5	1231.6	1363.4	1399.4	1586.7	1749.1
25°	1281.2	1284.7	1248.2	1204.1	1161.0	1152.1	1214.9	1349.4	1387.8	1577.8	1741.7
27.5°	1417.7	1420.4	1378.5	1313.4	1226.9	1169.6	1209.1	1341.3	1381.2	1570.0	1729.3
30°	1583.6	1596.4	1540.1	1458.0	1332.0	1221.1	1220.7	1337.0	1373.8	1556.8	1704.9
32.5°	1753.4	1758.8	1720.0	1636.7	1473.5	1311.8	1253.3	1340.1	1371.9	1540.9	1673.9
35°	1925.5	1932.5	1907.3	1840.2	1666.9	1444.8	1316.9	1358.3	1383.9	1535.5	1652.2
37.5°	2148.4	2157.7	2122.8	2045.3	1902.2	1625.0	1422.7	1404.1	1420.8	1551.0	1645.6
40°	2500.8	2496.5	2394.5	2279.0	2159.6	1855.7	1573.9	1481.6	1491.3	1601.0	1665.7
42.5°	2910.9	2900.4	2724.8	2543.4	2442.6	2134.8	1773.9	1616.1	1614.2	1699.5	1736.7
45°	3238.1	3229.5	3071.4	2847.7	2767.1	2452.7	2032.5	1816.5	1802.2	1855.7	1867.7
47.5°	3415.2	3415.6	3324.5	3141.9	3140.0	2856.6	2364.7	2106.5	2081.7	2106.9	2094.1
50°	3353.2	3361.3	3351.7	3293.5	3480.4	3386.2	2798.5	2510.8	2460.8	2485.6	2436.4
52.5°	3053.2	3063.6	3121.0	3210.2	3623.4	4026.2	3435.8	3013.2	2955.1	2946.2	2891.5
55°	2521.3	2534.1	2651.2	2893.4	3504.4	4456.1	4441.4	3653.6	3561.0	3476.9	3453.6
57.5°	1737.9	1759.2	1947.6	2307.3	3119.5	4585.9	5638.8	4566.6	4378.2	4084.3	4089.7
60°	979.6	1004.4	1226.5	1553.3	2342.6	4444.8	6549.8	5949.3	5551.6	4795.7	4836.0
62.5°	623.0	649.7	818.3	1079.2	1405.6	3685.0	6923.1	7871.7	7366.6	5672.5	5712.1
65°	504.3	516.0	595.4	890.8	1020.7	2220.1	6639.7	9455.3	9266.9	6785.5	6601.0
67.5°	492.3	496.2	537.3	747.8	978.8	1247.9	5296.1	9751.4	9960.4	7824.8	6971.2
70°	486.5	500.1	605.5	713.7	937.3	1052.5	3182.6	8939.7	9269.6	8096.5	6478.5
72.5°	236.1	235.3	304.7	645.4	1056.0	1091.6	1635.1	7233.2	7564.3	7014.6	5323.7
75°	190.3	174.1	166.3	236.5	1015.3	1127.3	1042.0	4977.1	5216.7	4703.0	3272.6
77.5°	180.6	161.3	147.7	148.1	429.1	1195.5	882.7	2754.7	2824.4	2124.3	896.6
80°	149.6	131.8	122.1	137.6	207.8	1138.5	954.4	1246.7	1144.0	521.8	298.5
82.5°	103.9	94.6	91.9	115.5	166.3	811.4	1109.9	669.9	561.7	261.3	184.1
85°	66.3	56.6	62.8	84.1	129.5	374.5	1143.2	522.2	415.2	165.9	103.9
87.5°	30.6	24.8	31.0	46.5	84.5	129.1	1087.8	586.5	427.6	87.6	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°	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6	1695.6
2.5°	1696.4	1689.0	1683.2	1672.3	1660.3	1648.7	1638.2	1625.0	1621.2	1617.7	1623.1
5°	1701.8	1694.4	1673.1	1639.8	1602.9	1568.4	1533.9	1504.5	1486.3	1476.2	1482.0
7.5°	1709.9	1699.5	1655.3	1594.0	1527.7	1467.3	1404.9	1354.9	1318.0	1300.6	1305.6
10°	1717.3	1697.1	1625.0	1533.2	1436.3	1346.3	1247.9	1166.5	1106.0	1074.2	1081.9
12.5°	1720.4	1688.2	1582.8	1457.2	1324.2	1192.4	1047.4	925.7	838.9	807.1	800.5
15°	1723.5	1678.2	1536.3	1370.7	1188.9	1002.5	799.3	653.6	581.5	565.6	562.1
17.5°	1724.3	1660.7	1483.6	1276.9	1030.4	776.5	546.6	453.9	454.3	479.9	483.0
20°	1716.1	1634.7	1419.6	1160.2	840.4	536.9	375.2	359.4	417.9	481.9	489.6
22.5°	1697.5	1600.2	1347.1	1024.2	623.0	353.5	290.4	307.8	383.4	461.7	470.6
25°	1673.9	1558.4	1261.4	866.4	412.5	252.8	243.4	264.8	315.9	368.3	373.3
27.5°	1641.7	1508.7	1165.3	685.8	267.9	208.2	214.4	228.7	249.6	272.9	275.2
30°	1600.2	1449.4	1062.6	500.1	202.4	187.2	196.2	203.9	212.8	226.0	227.2
32.5°	1552.6	1392.5	957.1	345.4	179.5	176.4	183.4	187.2	194.2	202.4	203.1
35°	1512.6	1338.2	847.8	244.2	169.8	168.2	172.9	174.4	181.0	190.0	190.7
37.5°	1489.8	1294.0	735.0	196.9	163.2	160.9	163.6	163.6	172.9	186.1	188.0
40°	1491.3	1269.6	622.2	177.9	157.8	154.7	155.1	155.1	167.1	181.4	182.6
42.5°	1533.6	1275.8	522.2	170.6	153.5	150.0	148.1	149.2	159.3	168.6	169.4
45°	1632.8	1319.6	428.4	165.9	149.2	148.1	143.8	143.4	147.3	151.6	151.6
47.5°	1795.6	1406.0	364.8	162.8	145.8	145.4	140.3	135.3	134.9	136.5	136.5
50°	2060.4	1554.9	322.1	159.3	143.4	140.3	134.5	126.8	124.0	125.2	125.2
52.5°	2457.3	1820.4	305.9	154.7	138.4	133.4	126.8	119.0	116.7	117.1	117.1
55°	2978.0	2228.2	303.5	149.2	133.0	124.8	119.4	113.6	110.9	111.6	111.6
57.5°	3614.1	2792.3	345.0	140.7	125.6	116.3	113.2	109.3	107.4	108.5	108.2
60°	4387.5	3530.4	511.7	131.8	118.2	108.5	108.5	105.4	103.9	105.1	104.7
62.5°	5278.3	4378.2	719.5	125.2	110.5	102.3	103.9	102.3	100.8	101.6	101.2
65°	6068.3	4930.6	673.7	120.2	102.7	96.5	99.2	98.5	97.3	98.1	97.7
67.5°	6091.2	4725.9	378.4	114.7	95.4	90.7	94.6	94.2	93.4	94.2	93.8
70°	5436.1	3990.5	213.2	104.7	87.6	83.7	89.2	88.8	88.0	89.5	89.2
72.5°	4355.3	2895.8	155.8	92.3	79.9	76.4	82.6	82.2	82.2	84.5	83.3
75°	2506.2	1490.1	124.4	79.1	71.7	69.0	74.4	74.8	75.6	78.7	76.4
77.5°	714.4	464.4	101.6	67.1	61.6	60.5	65.9	66.7	67.1	70.6	67.5
80°	265.5	214.0	83.7	56.2	50.4	50.8	55.8	57.0	57.4	60.9	57.0
82.5°	169.4	141.1	67.8	43.4	39.5	39.2	45.4	46.9	46.9	47.3	45.0
85°	98.9	84.5	51.2	31.4	27.9	26.7	33.7	36.4	35.3	34.5	33.0
87.5°	66.3	58.1	31.4	17.4	15.1	14.3	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)