

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: P191070

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191070
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-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 8041.4 lumens
Efficiency: N/A
Efficacy: 121.8 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

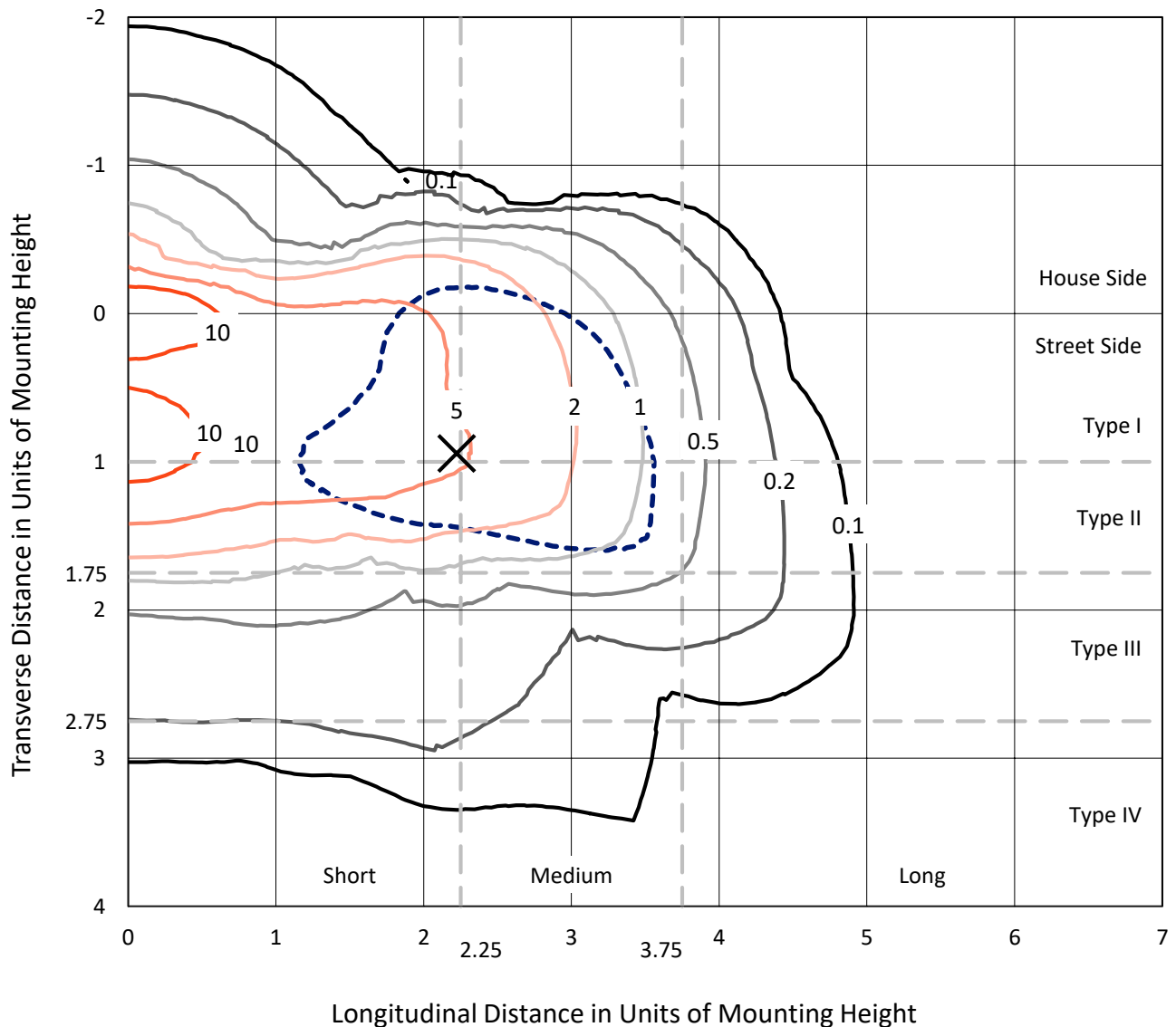
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

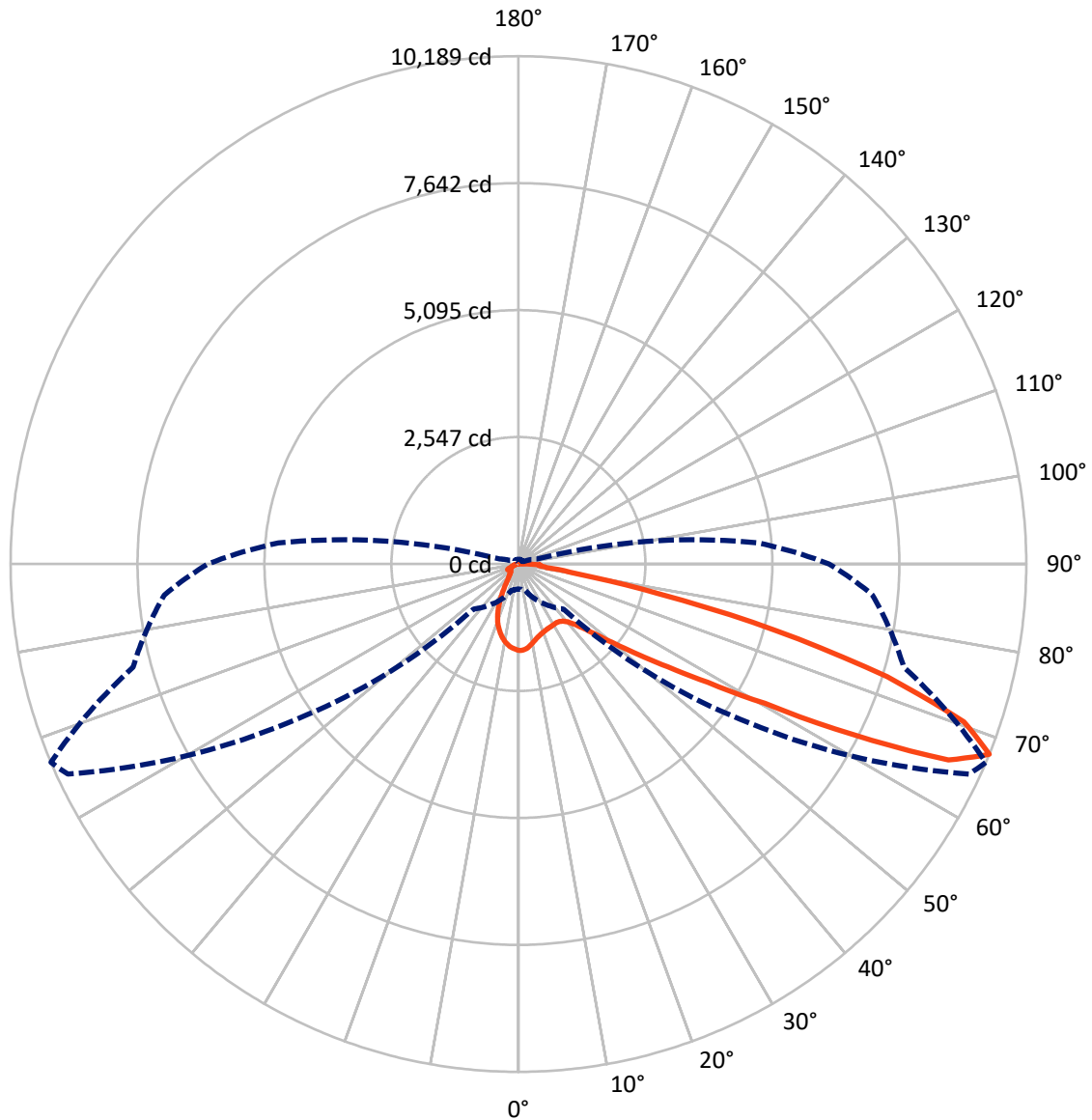
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 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	1332.4	0.0	1332.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	6709.0	0.0	6709.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	8041.4	0.0	8041.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.8
10°-20°	342.4	4.3
20°-30°	464.1	5.8
30°-40°	659.8	8.2
40°-50°	1103.9	13.7
50°-60°	1746.4	21.7
60°-70°	2224.7	27.7
70°-80°	1165.3	14.5
80°-90°	186.9	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°	8041.4	100.0
0°-180°	8041.4	100.0



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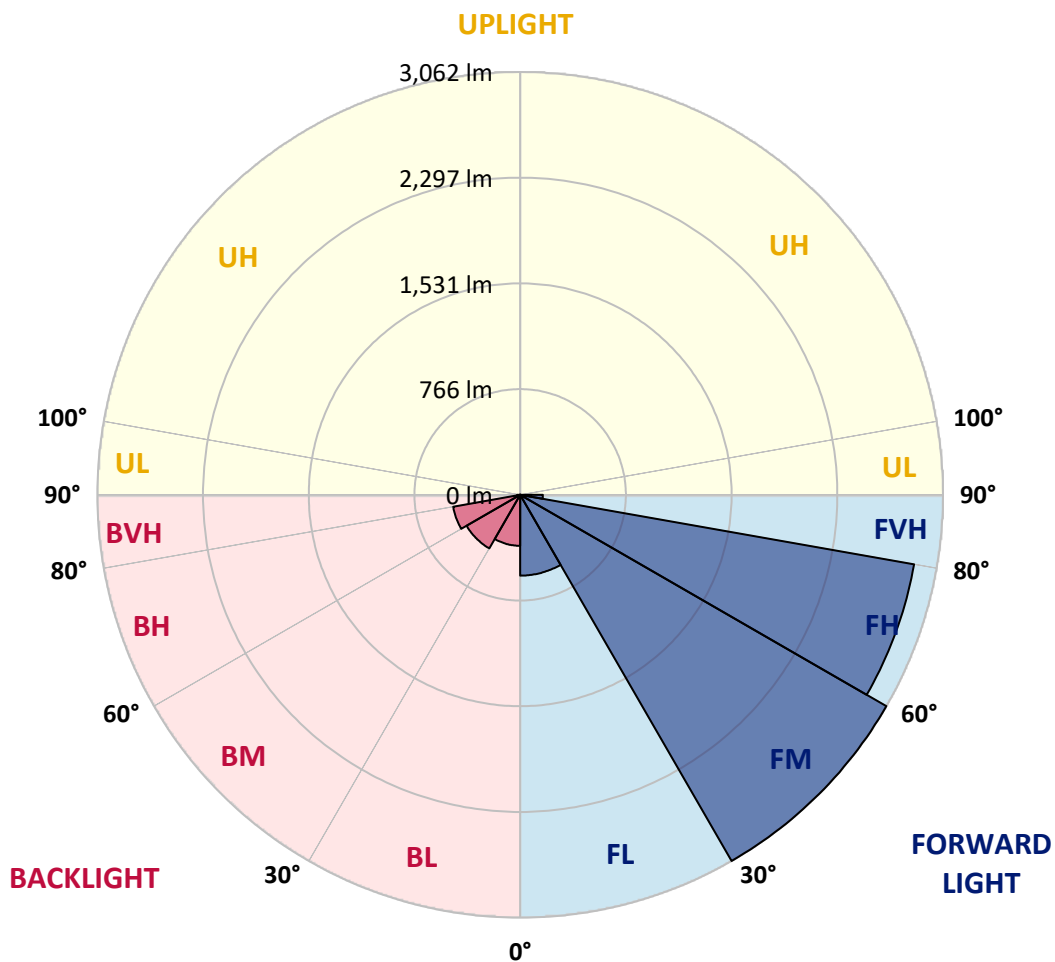
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	585.2	7.3			
FM	(30°-60°)	3062.3	38.1			
FH	(60°-80°)	2897.2	36.0			G2/5000
FVH	(80°-90°)	164.3	2.0			G2/225
BL	(0°-30°)	369.3	4.6	B1/500		
BM	(30°-60°)	447.7	5.6	B1/1000		
BH	(60°-80°)	492.8	6.1	B1/500		G1/500
BVH	(80°-90°)	22.6	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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1663.1	1665.9	1674.7	1680.2	1705.2	1715.9	1723.4	1730.9	1732.2	1735.7	1732.2
5°	1488.7	1494.6	1510.9	1529.1	1577.5	1615.5	1655.6	1697.3	1704.7	1731.8	1739.3
7.5°	1353.5	1351.8	1365.3	1387.1	1436.7	1489.4	1559.6	1642.6	1658.8	1719.5	1748.8
10°	1254.6	1253.5	1267.7	1290.4	1337.6	1387.5	1466.8	1580.3	1603.3	1700.0	1757.9
12.5°	1181.7	1182.1	1196.4	1221.4	1269.4	1319.7	1400.2	1520.0	1549.4	1677.4	1767.5
15°	1133.3	1136.5	1148.1	1174.6	1221.4	1271.7	1350.6	1474.8	1507.7	1659.5	1778.1
17.5°	1117.1	1122.3	1126.2	1145.6	1185.7	1236.0	1313.4	1441.4	1476.3	1647.3	1787.6
20°	1132.2	1138.1	1130.6	1137.3	1162.7	1207.1	1284.0	1415.3	1451.0	1633.3	1788.8
22.5°	1196.8	1202.4	1180.2	1160.7	1159.1	1186.1	1259.9	1394.7	1431.5	1623.1	1789.2
25°	1310.6	1314.2	1276.8	1231.7	1187.6	1178.5	1242.8	1380.4	1419.7	1614.0	1781.7
27.5°	1450.2	1453.0	1410.1	1343.5	1255.1	1196.4	1236.8	1372.1	1412.9	1606.0	1769.0
30°	1619.9	1633.0	1575.4	1491.5	1362.6	1249.1	1248.7	1367.7	1405.3	1592.5	1744.0
32.5°	1793.6	1799.2	1759.5	1674.3	1507.3	1341.9	1282.1	1370.9	1403.4	1576.3	1712.3
35°	1969.7	1976.9	1951.1	1882.4	1705.2	1478.0	1347.1	1389.5	1415.7	1570.7	1690.1
37.5°	2197.7	2207.2	2171.5	2092.2	1945.9	1662.3	1455.4	1436.3	1453.4	1586.6	1683.4
40°	2558.2	2553.8	2449.5	2331.3	2209.2	1898.3	1610.0	1515.6	1525.5	1637.7	1703.9
42.5°	2977.7	2967.0	2787.3	2601.8	2498.7	2183.8	1814.6	1653.2	1651.2	1738.5	1776.6
45°	3312.4	3303.6	3141.9	2913.1	2830.6	2509.0	2079.1	1858.2	1843.6	1898.3	1910.6
47.5°	3493.6	3494.0	3400.8	3214.0	3212.1	2922.2	2419.0	2154.8	2129.5	2155.3	2142.2
50°	3430.2	3438.4	3428.6	3369.1	3560.3	3463.9	2862.7	2568.4	2517.3	2542.6	2492.3
52.5°	3123.3	3133.9	3192.6	3283.9	3706.6	4118.6	3514.7	3082.4	3022.9	3013.8	2957.9
55°	2579.2	2592.3	2712.0	2959.8	3584.8	4558.4	4543.3	3737.5	3642.7	3556.7	3532.9
57.5°	1777.8	1799.6	1992.3	2360.3	3191.1	4691.2	5768.2	4671.4	4478.7	4178.0	4183.6
60°	1002.1	1027.5	1254.6	1588.9	2396.4	4546.8	6700.1	6085.8	5679.0	4905.8	4947.0
62.5°	637.3	664.6	837.1	1104.0	1437.9	3769.6	7082.0	8052.4	7535.7	5802.7	5843.2
65°	515.9	527.8	609.1	911.2	1044.1	2271.1	6792.1	9672.3	9479.6	6941.2	6752.5
67.5°	503.6	507.6	549.6	765.0	1001.3	1276.5	5417.6	9975.2	10189.0	8004.4	7131.2
70°	497.7	511.6	619.4	730.1	958.8	1076.7	3255.6	9144.9	9482.3	8282.3	6627.2
72.5°	241.5	240.7	311.7	660.2	1080.2	1116.7	1672.6	7399.2	7737.9	7175.6	5445.9
75°	194.7	178.1	170.1	241.9	1038.6	1153.2	1065.9	5091.3	5336.4	4810.9	3347.7
77.5°	184.7	165.0	151.1	151.5	438.9	1222.9	903.0	2817.9	2889.2	2173.1	917.2
80°	153.0	134.8	124.9	140.8	212.6	1164.6	976.3	1275.3	1170.3	533.8	305.4
82.5°	106.3	96.8	94.0	118.2	170.1	830.0	1135.4	685.3	574.6	267.3	188.3
85°	67.8	57.9	64.2	86.0	132.5	383.1	1169.4	534.2	424.7	169.7	106.3
87.5°	31.3	25.4	31.7	47.6	86.4	132.1	1112.8	600.0	437.4	89.6	67.0
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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1735.3	1727.8	1721.8	1710.7	1698.4	1686.5	1675.8	1662.3	1658.4	1654.8	1660.4
5°	1740.9	1733.3	1711.5	1677.4	1639.7	1604.4	1569.1	1539.0	1520.4	1510.1	1516.0
7.5°	1749.1	1738.5	1693.3	1630.6	1562.8	1501.0	1437.1	1386.0	1348.2	1330.4	1335.6
10°	1756.7	1736.0	1662.3	1568.4	1469.3	1377.2	1276.5	1193.3	1131.4	1098.9	1106.7
12.5°	1759.9	1726.9	1619.1	1490.6	1354.6	1219.8	1071.4	946.9	858.2	825.6	818.9
15°	1763.1	1716.7	1571.6	1402.2	1216.2	1025.5	817.6	668.6	594.8	578.6	575.0
17.5°	1763.9	1698.8	1517.6	1306.2	1054.0	794.3	559.1	464.3	464.7	490.9	494.1
20°	1755.5	1672.2	1452.2	1186.8	859.7	549.2	383.8	367.6	427.5	493.0	500.8
22.5°	1736.5	1636.9	1378.0	1047.7	637.3	361.6	297.1	314.9	392.2	472.3	481.4
25°	1712.3	1594.2	1290.4	886.3	422.0	258.6	249.0	270.9	323.2	376.8	381.9
27.5°	1679.4	1543.3	1192.0	701.5	274.0	213.0	219.3	233.9	255.3	279.2	281.5
30°	1636.9	1482.7	1087.0	511.6	207.0	191.5	200.7	208.6	217.7	231.2	232.4
32.5°	1588.2	1424.5	979.1	353.3	183.6	180.4	187.6	191.5	198.7	207.0	207.8
35°	1547.3	1368.9	867.3	249.8	173.7	172.1	176.9	178.4	185.2	194.4	195.1
37.5°	1524.0	1323.7	751.9	201.4	166.9	164.6	167.4	167.4	176.9	190.4	192.3
40°	1525.5	1298.7	636.5	182.0	161.4	158.3	158.7	158.7	170.9	185.6	186.8
42.5°	1568.8	1305.1	534.2	174.5	157.0	153.4	151.5	152.6	163.0	172.5	173.3
45°	1670.3	1349.9	438.2	169.7	152.6	151.5	147.1	146.7	150.7	155.1	155.1
47.5°	1836.8	1438.3	373.2	166.5	149.1	148.7	143.5	138.4	138.0	139.6	139.6
50°	2107.7	1590.6	329.5	163.0	146.7	143.5	137.6	129.7	126.8	128.1	128.1
52.5°	2513.7	1862.2	312.9	158.3	141.6	136.5	129.7	121.7	119.4	119.8	119.8
55°	3046.3	2279.3	310.5	152.6	136.1	127.7	122.1	116.2	113.4	114.2	114.2
57.5°	3697.0	2856.4	352.9	143.9	128.5	119.0	115.8	111.8	109.9	111.0	110.7
60°	4488.2	3611.4	523.4	134.8	120.9	111.0	111.0	107.8	106.3	107.5	107.1
62.5°	5399.4	4478.7	736.0	128.1	113.0	104.6	106.3	104.6	103.1	103.9	103.5
65°	6207.6	5043.8	689.2	123.0	105.1	98.7	101.5	100.8	99.5	100.4	99.9
67.5°	6231.0	4834.4	387.1	117.3	97.6	92.8	96.8	96.4	95.5	96.4	96.0
70°	5560.9	4082.1	218.1	107.1	89.6	85.6	91.2	90.8	90.0	91.6	91.2
72.5°	4455.3	2962.3	159.4	94.4	81.7	78.2	84.5	84.1	84.1	86.4	85.2
75°	2563.7	1524.3	127.3	80.9	73.3	70.6	76.1	76.5	77.3	80.5	78.2
77.5°	730.8	475.1	103.9	68.6	63.0	61.9	67.4	68.2	68.6	72.2	69.0
80°	271.6	218.9	85.6	57.5	51.6	52.0	57.1	58.3	58.7	62.3	58.3
82.5°	173.3	144.3	69.4	44.4	40.4	40.1	46.4	48.0	48.0	48.4	46.0
85°	101.2	86.4	52.4	32.1	28.5	27.3	34.5	37.2	36.1	35.3	33.8
87.5°	67.8	59.4	32.1	17.8	15.4	14.6	20.3	22.2	21.4	20.3	19.0
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)