

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: P191979

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191979
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-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 6837 lumens
Efficiency: N/A
Efficacy: 102.0 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): 67
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

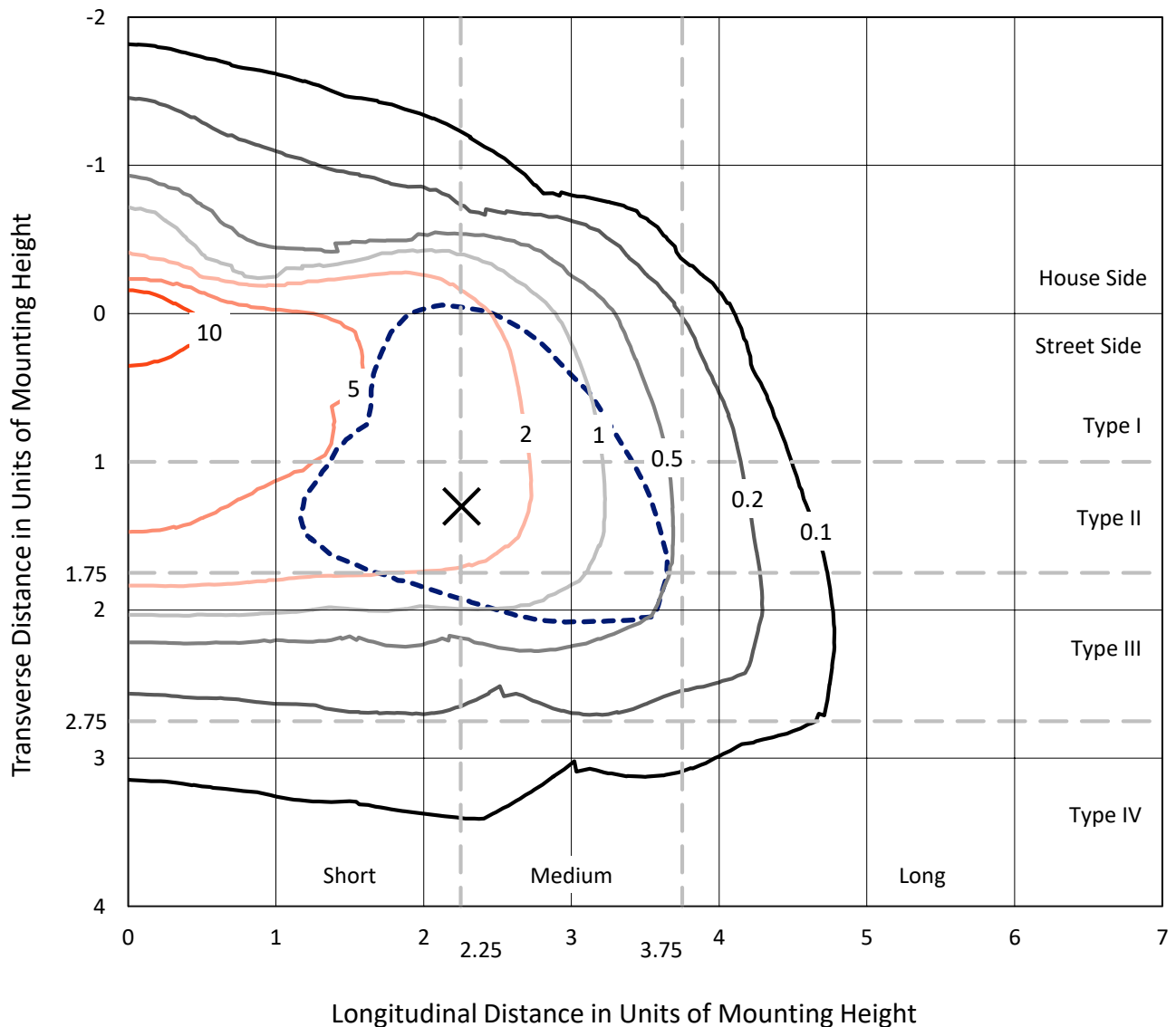


REPORT NUMBER: P191979

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

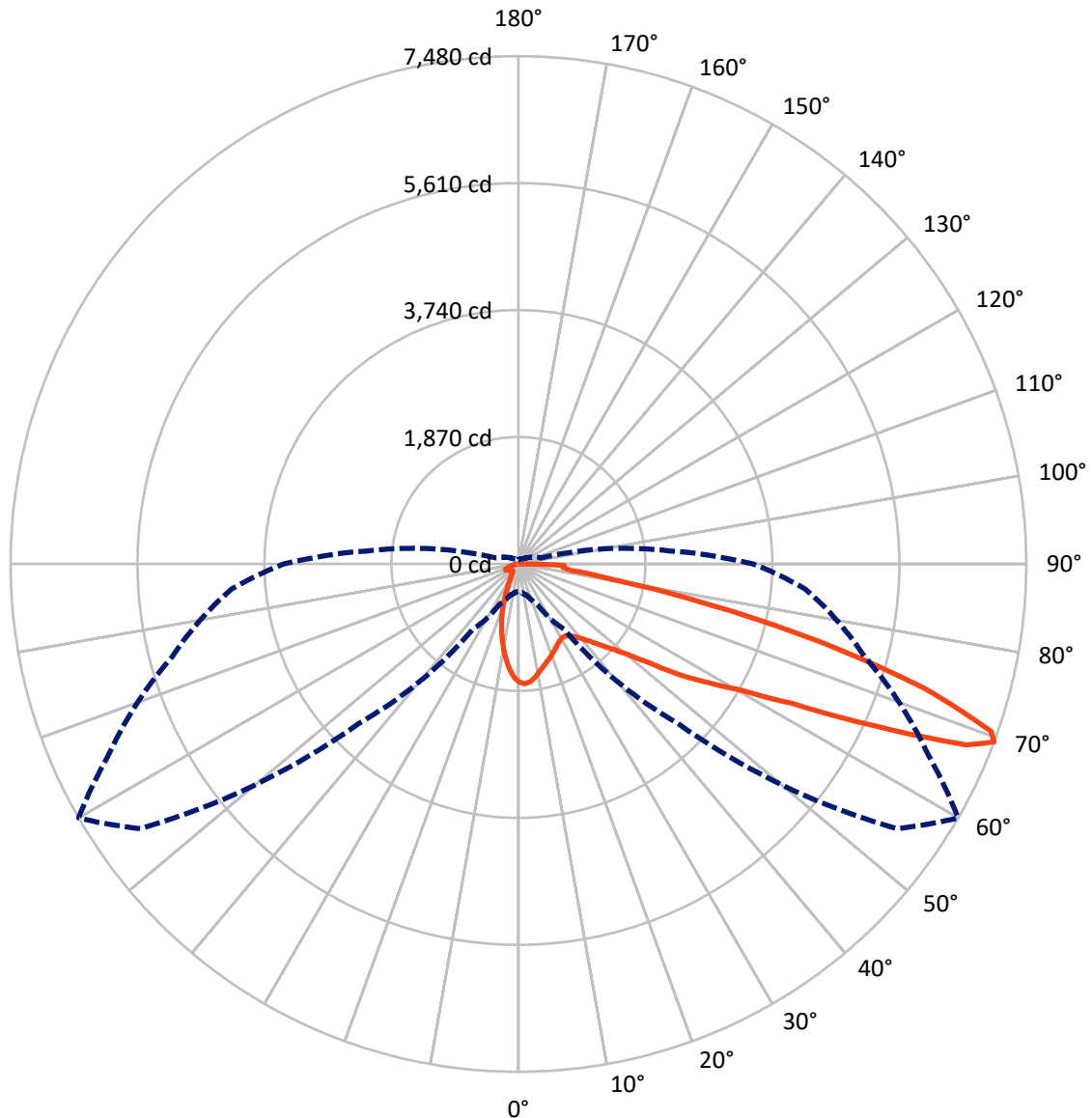


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191979

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P191979

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	972.7	0.0	972.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5864.3	0.0	5864.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	6837.0	0.0	6837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	2.2
10°-20°	313.8	4.6
20°-30°	399.9	5.8
30°-40°	549.8	8.0
40°-50°	892.0	13.0
50°-60°	1430.6	20.9
60°-70°	1904.0	27.8
70°-80°	1028.0	15.0
80°-90°	171.5	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°	6837.0	100.0
0°-180°	6837.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191979

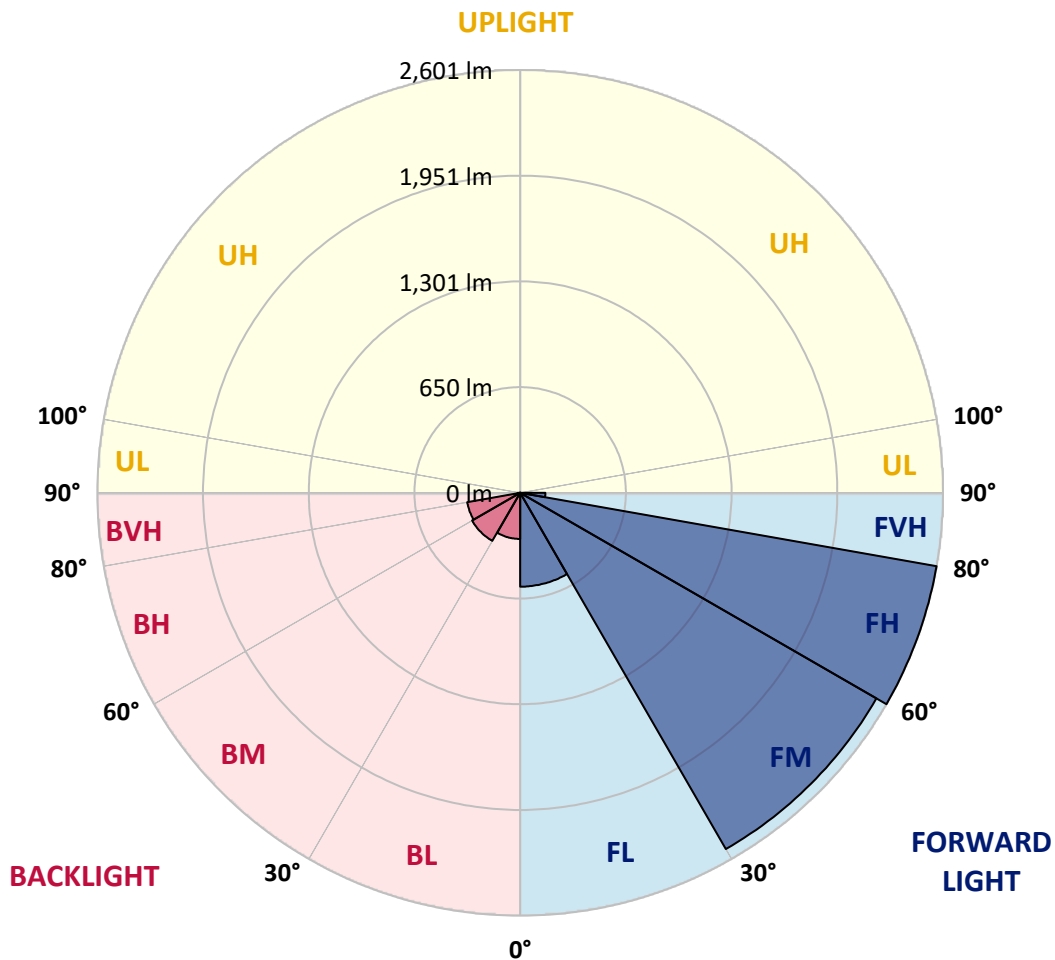
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.3	8.4			
FM (30°-60°)	2530.7	37.0			
FH (60°-80°)	2601.3	38.0			G2/5000
FVH (80°-90°)	155.0	2.3			G2/225
BL (0°-30°)	283.8	4.2	B1/500		
BM (30°-60°)	341.7	5.0	B1/1000		
BH (60°-80°)	330.7	4.8	B1/500		G1/500
BVH (80°-90°)	16.5	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





REPORT NUMBER: P191979

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL3-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1777.8	1781.8	1780.2	1779.2	1782.1	1777.5	1767.9	1765.0	1760.3	1749.4	1730.9
5°	1711.1	1723.0	1722.4	1731.3	1746.1	1750.1	1745.8	1746.5	1737.9	1724.3	1693.6
7.5°	1595.9	1600.8	1603.5	1622.9	1650.0	1671.8	1690.3	1696.3	1692.3	1680.7	1641.1
10°	1477.0	1480.9	1487.2	1510.0	1544.3	1574.4	1609.4	1629.5	1638.1	1636.2	1591.9
12.5°	1374.9	1378.9	1387.1	1412.9	1453.8	1490.8	1541.7	1566.8	1587.3	1599.5	1551.9
15°	1283.4	1292.0	1299.9	1329.7	1375.6	1424.1	1481.6	1513.3	1545.0	1572.4	1516.6
17.5°	1212.1	1220.7	1225.3	1252.4	1301.3	1360.7	1428.1	1465.4	1505.0	1550.0	1481.6
20°	1170.8	1174.8	1172.8	1188.0	1231.9	1295.0	1374.9	1418.2	1466.1	1528.8	1446.6
22.5°	1159.2	1159.6	1152.3	1150.7	1179.1	1232.2	1318.1	1370.6	1429.4	1514.9	1416.5
25°	1187.3	1186.3	1166.5	1150.3	1153.3	1184.3	1263.3	1324.4	1398.7	1512.0	1393.4
27.5°	1249.7	1252.7	1223.3	1192.9	1162.9	1161.9	1221.7	1286.1	1373.6	1525.5	1383.5
30°	1337.3	1342.2	1310.8	1272.2	1215.7	1169.2	1205.5	1263.3	1358.1	1553.6	1381.8
32.5°	1433.0	1438.3	1414.5	1373.9	1299.9	1214.1	1216.7	1265.3	1357.4	1592.9	1393.1
35°	1535.1	1541.0	1528.8	1494.5	1412.2	1297.0	1259.6	1297.3	1378.9	1653.0	1423.1
37.5°	1649.0	1658.3	1661.6	1628.9	1541.0	1406.3	1330.0	1358.1	1427.4	1736.6	1478.3
40°	1813.2	1826.1	1825.1	1778.2	1688.7	1553.9	1438.7	1445.9	1503.1	1848.2	1566.5
42.5°	2127.6	2130.2	2048.0	1945.9	1851.2	1709.1	1566.8	1560.9	1607.4	1989.5	1696.3
45°	2527.6	2516.7	2333.7	2136.5	2020.9	1887.5	1733.6	1704.5	1739.9	2161.9	1858.8
47.5°	2859.5	2834.4	2603.2	2331.0	2200.6	2081.4	1929.4	1878.6	1898.1	2357.5	2068.8
50°	2974.7	2955.9	2764.4	2492.9	2370.7	2317.8	2170.5	2098.5	2103.8	2590.6	2314.9
52.5°	2950.0	2947.3	2819.5	2599.6	2529.9	2566.2	2512.0	2414.6	2363.1	2849.6	2580.4
55°	2891.5	2897.1	2850.9	2723.7	2711.8	2806.0	2958.2	2886.2	2726.0	3110.8	2854.8
57.5°	2688.4	2702.9	2804.6	2879.9	3004.8	3144.8	3317.6	3297.1	3116.8	3393.2	3181.2
60°	2165.9	2199.6	2472.4	2849.6	3306.3	3744.3	3821.5	3774.0	3519.7	3743.6	3612.2
62.5°	1517.6	1552.6	1876.9	2467.1	3256.8	4421.3	4722.5	4517.4	4098.3	4259.8	4170.0
65°	812.5	829.3	1077.0	1711.8	2749.5	4561.0	6039.3	5727.2	5014.5	4896.2	4647.2
67.5°	448.2	457.4	552.2	864.3	1761.0	4016.4	6878.2	7114.0	6159.5	5320.0	4560.4
69°	405.2	413.8	475.9	654.6	1178.4	3320.9	6796.3	7479.6	6661.5	5278.0	4239.3
70°	396.3	404.2	460.1	603.4	953.8	2737.3	6521.8	7386.1	6781.1	5127.8	3959.3
72.5°	356.7	365.3	419.4	542.0	815.1	1364.7	5166.1	6245.1	6156.6	4446.1	3003.1
75°	332.6	340.5	432.3	530.7	780.4	863.7	3405.7	4602.6	4525.7	3110.1	1619.3
77.5°	142.3	141.7	200.5	449.2	792.0	836.2	1830.0	2875.3	2623.3	1329.3	465.0
80°	95.1	93.5	95.1	132.1	726.3	840.9	958.8	1459.5	1102.4	338.9	229.2
82.5°	81.9	80.6	83.6	80.6	255.3	959.8	815.1	776.1	524.1	192.5	113.6
85°	55.2	52.8	72.0	72.3	120.5	852.8	918.1	655.6	424.1	114.3	56.1
87.5°	26.4	25.8	41.9	51.2	70.7	346.5	1030.1	671.8	427.7	58.5	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191979

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1725.3	1711.8	1698.6	1682.7	1666.2	1647.7	1638.5	1629.2	1626.9	1624.3	1615.0
5°	1677.8	1658.6	1625.6	1589.3	1550.9	1513.6	1485.2	1467.4	1453.8	1446.9	1434.7
7.5°	1616.3	1588.3	1530.5	1467.7	1403.3	1344.5	1293.7	1261.6	1231.2	1217.0	1200.9
10°	1557.9	1515.9	1426.1	1333.6	1241.2	1152.3	1068.8	1009.6	957.1	927.7	906.9
12.5°	1507.7	1450.2	1325.7	1200.5	1073.7	947.2	822.0	723.6	641.4	598.1	576.0
15°	1458.8	1389.4	1230.3	1071.4	908.6	736.5	572.0	460.4	392.4	365.3	356.0
17.5°	1414.5	1325.7	1134.5	941.3	738.2	530.1	384.4	323.0	296.9	288.0	285.0
20°	1366.7	1261.3	1035.1	805.2	560.5	370.6	300.2	273.1	262.6	259.9	258.6
22.5°	1320.4	1197.9	939.9	659.5	402.6	286.0	257.9	246.7	245.1	247.4	247.4
25°	1281.1	1141.1	837.2	507.3	295.6	240.8	230.9	228.2	234.5	243.1	244.7
27.5°	1251.7	1094.5	727.9	374.5	235.5	209.4	209.1	213.4	228.9	245.4	248.7
30°	1231.6	1050.3	611.0	270.2	197.5	184.3	189.6	198.8	221.6	245.1	251.3
32.5°	1221.3	1017.6	489.1	209.1	169.1	161.8	170.7	182.0	204.4	226.2	234.5
35°	1229.3	993.5	374.2	174.4	149.3	143.7	152.9	163.8	177.0	186.3	192.5
37.5°	1259.0	983.9	282.4	156.2	135.7	130.5	137.7	144.0	149.3	151.9	154.9
40°	1323.1	994.1	226.2	147.0	128.1	121.5	124.5	126.8	130.1	132.8	134.1
42.5°	1417.5	1024.8	202.8	143.3	124.2	114.6	113.9	114.9	119.2	124.2	125.2
45°	1549.6	1079.0	201.1	145.6	122.2	109.0	106.0	107.3	113.9	121.5	122.9
47.5°	1718.4	1161.6	214.3	152.6	123.9	106.0	101.1	102.7	111.0	121.2	122.9
50°	1922.8	1276.8	236.5	162.8	131.1	106.7	99.4	100.4	109.0	120.2	121.9
52.5°	2164.3	1440.3	260.6	172.7	138.7	111.0	100.7	98.4	106.3	116.3	118.2
55°	2432.8	1650.0	285.4	181.6	142.7	116.3	103.4	95.8	101.4	109.6	111.3
57.5°	2762.4	1943.3	328.3	190.2	145.3	119.9	106.0	93.1	95.1	101.1	102.4
60°	3208.6	2358.1	403.9	204.4	151.3	121.2	105.7	90.8	88.8	92.1	92.8
62.5°	3743.3	2808.6	467.0	222.3	161.2	122.2	103.7	89.2	83.6	83.6	84.2
65°	4060.7	2929.2	432.0	237.1	169.4	121.2	101.4	87.5	79.6	76.0	76.3
67.5°	3791.5	2576.1	370.2	240.1	169.1	116.6	97.8	84.5	75.6	70.0	69.7
69°	3454.3	2222.7	342.5	232.2	161.2	110.6	93.1	81.2	72.7	66.7	66.4
70°	3182.5	2007.0	324.3	223.6	152.6	106.3	89.5	78.3	70.3	64.7	64.1
72.5°	2313.9	1315.1	277.1	192.2	125.8	89.2	77.3	68.7	62.8	59.4	58.8
75°	1156.3	627.2	224.9	155.9	96.4	71.3	63.4	57.5	54.5	53.8	53.5
77.5°	379.8	287.3	160.8	116.3	71.7	55.8	51.2	46.9	46.2	48.2	47.6
80°	208.7	167.1	102.1	77.0	48.9	41.0	40.3	38.0	39.0	42.3	41.6
82.5°	106.3	86.9	63.1	46.2	33.0	29.4	32.0	30.7	32.0	35.0	34.7
85°	52.5	47.6	40.0	28.1	21.8	18.8	22.8	23.8	24.4	26.8	26.8
87.5°	30.4	28.1	21.1	13.2	10.9	9.9	13.2	12.9	15.2	16.5	16.2
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)