

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: P193690

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193690
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-02-LED-E1-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES 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: 6548 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

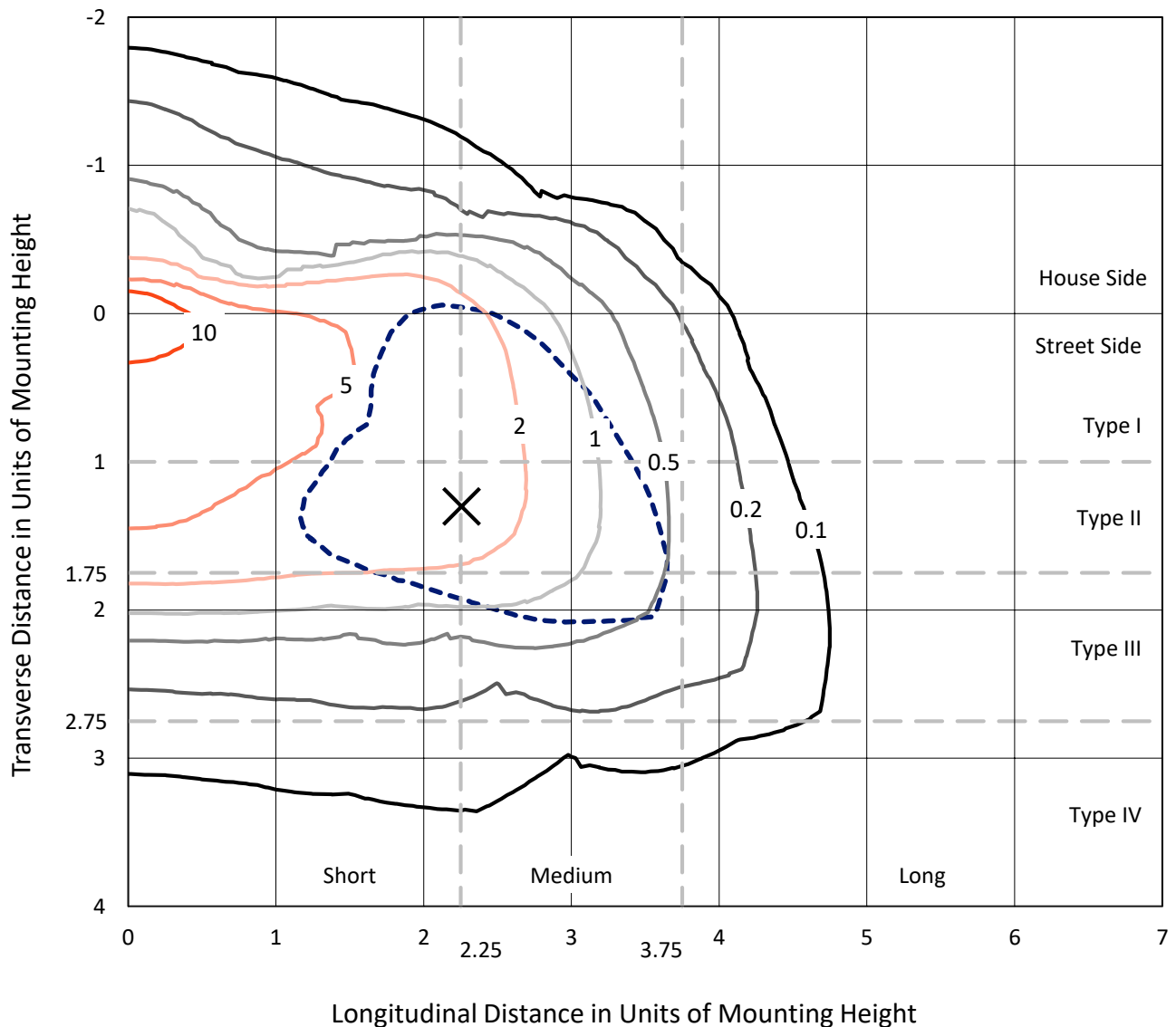
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

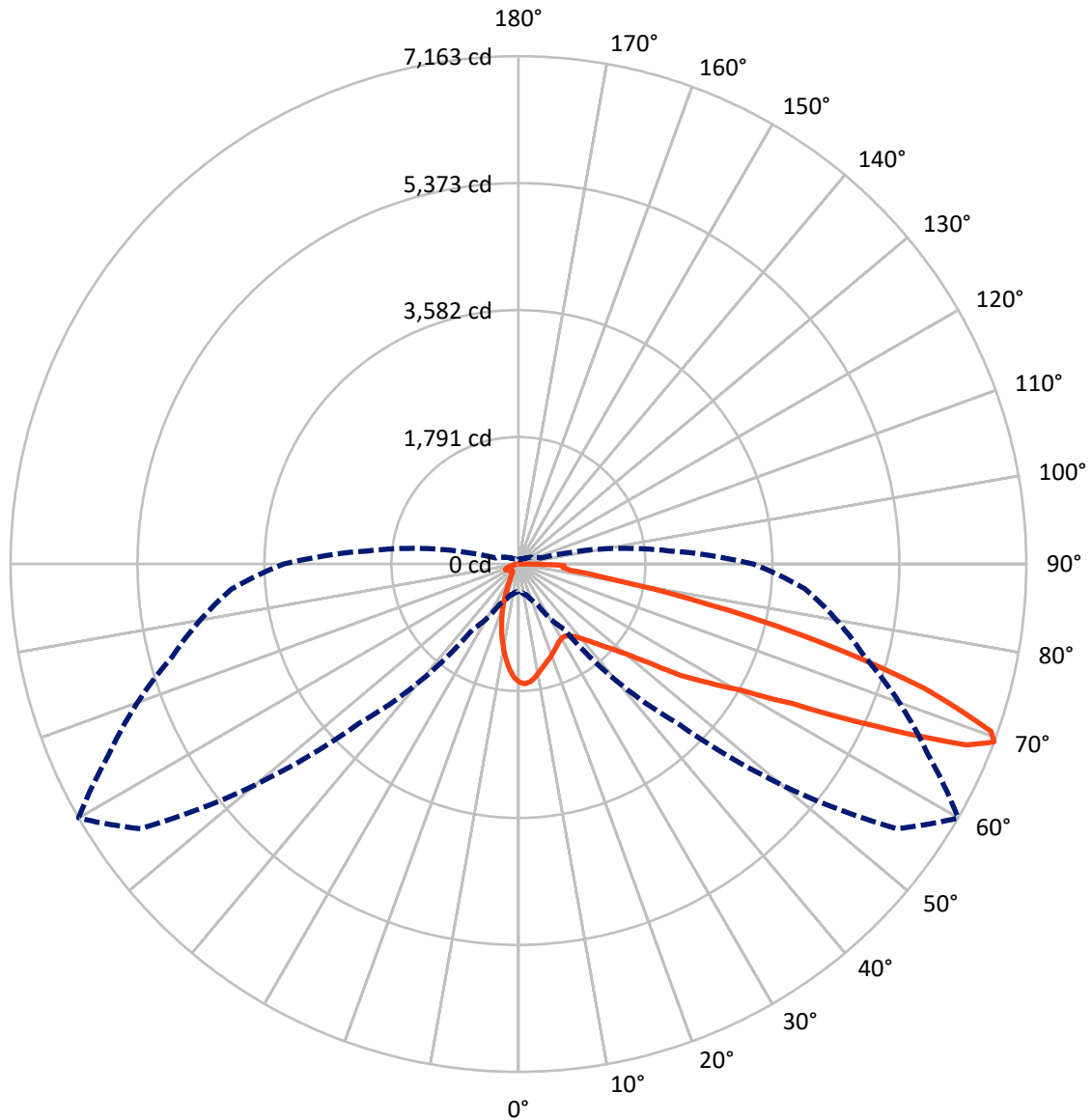
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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	931.6	0.0	931.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5616.4	0.0	5616.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	6548.0	0.0	6548.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	2.2
10°-20°	300.6	4.6
20°-30°	383.0	5.8
30°-40°	526.5	8.0
40°-50°	854.3	13.0
50°-60°	1370.1	20.9
60°-70°	1823.5	27.8
70°-80°	984.6	15.0
80°-90°	164.3	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°	6548.0	100.0
0°-180°	6548.0	100.0



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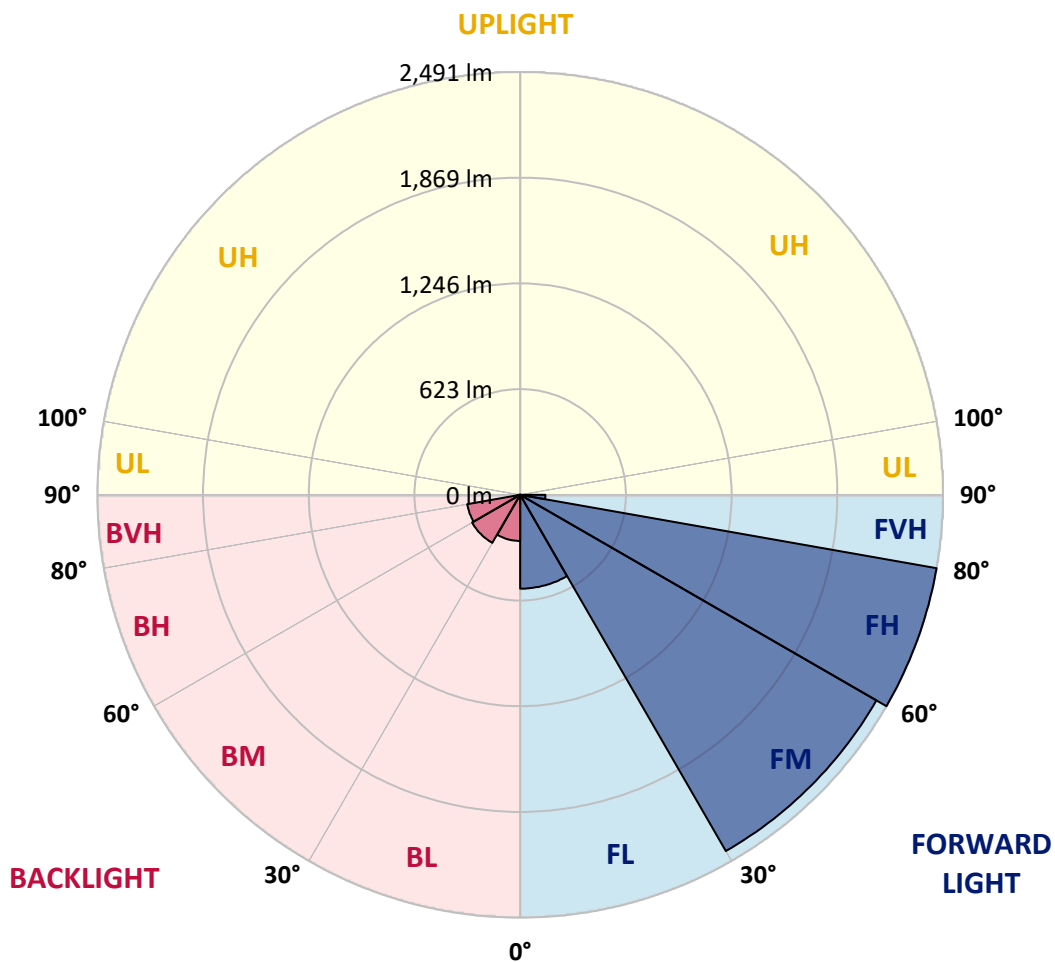
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.9	8.4			
FM	(30°-60°)	2423.7	37.0			
FH	(60°-80°)	2491.4	38.0			G2/5000
FVH	(80°-90°)	148.5	2.3			G2/225
BL	(0°-30°)	271.8	4.2	B1/500		
BM	(30°-60°)	327.3	5.0	B1/1000		
BH	(60°-80°)	316.7	4.8	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1702.7	1706.5	1704.9	1704.0	1706.8	1702.4	1693.2	1690.4	1685.9	1675.5	1657.8
5°	1638.8	1650.2	1649.6	1658.1	1672.3	1676.1	1672.0	1672.6	1664.4	1651.4	1622.0
7.5°	1528.4	1533.1	1535.7	1554.3	1580.3	1601.2	1618.9	1624.6	1620.8	1609.7	1571.7
10°	1414.5	1418.3	1424.3	1446.2	1479.1	1507.8	1541.4	1560.7	1568.9	1567.0	1524.6
12.5°	1316.8	1320.6	1328.5	1353.2	1392.4	1427.8	1476.5	1500.6	1520.2	1531.9	1486.3
15°	1229.2	1237.4	1245.0	1273.5	1317.4	1363.9	1419.0	1449.3	1479.7	1505.9	1452.5
17.5°	1160.9	1169.1	1173.5	1199.4	1246.3	1303.2	1367.7	1403.5	1441.4	1484.4	1419.0
20°	1121.3	1125.1	1123.2	1137.8	1179.8	1240.2	1316.8	1358.2	1404.1	1464.2	1385.4
22.5°	1110.2	1110.6	1103.6	1102.0	1129.2	1180.1	1262.4	1312.7	1369.0	1450.9	1356.6
25°	1137.1	1136.2	1117.2	1101.7	1104.6	1134.3	1209.9	1268.4	1339.6	1448.1	1334.5
27.5°	1196.9	1199.8	1171.6	1142.5	1113.7	1112.8	1170.0	1231.7	1315.5	1461.0	1325.0
30°	1280.7	1285.5	1255.4	1218.4	1164.3	1119.7	1154.5	1209.9	1300.7	1487.9	1323.4
32.5°	1372.5	1377.5	1354.8	1315.8	1245.0	1162.8	1165.3	1211.8	1300.0	1525.6	1334.2
35°	1470.2	1475.9	1464.2	1431.3	1352.5	1242.1	1206.4	1242.5	1320.6	1583.1	1363.0
37.5°	1579.3	1588.2	1591.4	1560.0	1475.9	1346.8	1273.8	1300.7	1367.1	1663.2	1415.8
40°	1736.5	1748.9	1747.9	1703.0	1617.3	1488.2	1377.8	1384.8	1439.5	1770.1	1500.3
42.5°	2037.7	2040.2	1961.4	1863.7	1772.9	1636.9	1500.6	1494.9	1539.5	1905.4	1624.6
45°	2420.7	2410.3	2235.0	2046.2	1935.5	1807.7	1660.3	1632.5	1666.3	2070.6	1780.2
47.5°	2738.6	2714.6	2493.1	2232.5	2107.6	1993.4	1847.9	1799.2	1817.8	2257.8	1981.4
50°	2849.0	2831.0	2647.5	2387.5	2270.5	2219.9	2078.8	2009.8	2014.9	2481.1	2217.0
52.5°	2825.3	2822.7	2700.3	2489.7	2422.9	2457.7	2405.8	2312.5	2263.2	2729.1	2471.3
55°	2769.3	2774.7	2730.4	2608.6	2597.2	2687.4	2833.2	2764.2	2610.8	2979.3	2734.2
57.5°	2574.8	2588.7	2686.1	2758.2	2877.8	3011.9	3177.3	3157.7	2985.0	3249.8	3046.7
60°	2074.4	2106.6	2367.9	2729.1	3166.6	3586.0	3660.0	3614.5	3370.9	3585.4	3459.5
62.5°	1453.4	1487.0	1797.6	2362.8	3119.1	4234.4	4522.9	4326.5	3925.1	4079.8	3993.7
65°	778.1	794.3	1031.5	1639.4	2633.3	4368.2	5784.0	5485.1	4802.5	4689.3	4450.8
67.5°	429.2	438.1	528.9	827.8	1686.6	3846.6	6587.5	6813.3	5899.2	5095.1	4367.6
69°	388.1	396.3	455.8	626.9	1128.6	3180.5	6509.0	7163.4	6380.0	5054.9	4060.1
70°	379.6	387.2	440.6	577.9	913.5	2621.6	6246.2	7073.9	6494.5	4911.0	3791.9
72.5°	341.6	349.8	401.7	519.1	780.7	1307.0	4947.7	5981.1	5896.3	4258.2	2876.2
75°	318.5	326.1	414.0	508.3	747.4	827.1	3261.8	4408.1	4334.4	2978.7	1550.9
77.5°	136.3	135.7	192.0	430.2	758.5	800.9	1752.7	2753.8	2512.4	1273.1	445.4
80°	91.1	89.5	91.1	126.5	695.6	805.3	918.2	1397.8	1055.8	324.5	219.5
82.5°	78.4	77.2	80.0	77.2	244.5	919.2	780.7	743.3	502.0	184.4	108.8
85°	52.8	50.6	69.0	69.3	115.5	816.7	879.3	627.9	406.1	109.4	53.8
87.5°	25.3	24.7	40.2	49.0	67.7	331.8	986.6	643.4	409.6	56.0	25.6
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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1652.4	1639.4	1626.8	1611.6	1595.8	1578.1	1569.2	1560.4	1558.1	1555.6	1546.8
5°	1606.8	1588.5	1556.9	1522.1	1485.4	1449.6	1422.4	1405.4	1392.4	1385.7	1374.0
7.5°	1548.0	1521.1	1465.8	1405.7	1344.0	1287.7	1239.0	1208.3	1179.2	1165.6	1150.1
10°	1492.0	1451.9	1365.8	1277.3	1188.7	1103.6	1023.6	967.0	916.7	888.5	868.6
12.5°	1444.0	1388.9	1269.7	1149.8	1028.3	907.2	787.3	693.0	614.3	572.8	551.6
15°	1397.1	1330.7	1178.3	1026.1	870.2	705.4	547.8	440.9	375.8	349.8	341.0
17.5°	1354.8	1269.7	1086.5	901.5	707.0	507.7	368.2	309.4	284.4	275.8	273.0
20°	1308.9	1208.0	991.3	771.2	536.8	354.9	287.5	261.6	251.5	248.9	247.7
22.5°	1264.6	1147.3	900.2	631.7	385.6	273.9	247.0	236.3	234.7	236.9	236.9
25°	1227.0	1092.8	801.8	485.9	283.1	230.6	221.1	218.6	224.6	232.8	234.4
27.5°	1198.8	1048.2	697.1	358.7	225.5	200.5	200.2	204.3	219.2	235.0	238.2
30°	1179.5	1005.9	585.2	258.7	189.2	176.5	181.6	190.4	212.2	234.7	240.7
32.5°	1169.7	974.5	468.5	200.2	162.0	155.0	163.5	174.3	195.8	216.7	224.6
35°	1177.3	951.5	358.4	167.0	143.0	137.6	146.5	156.9	169.5	178.4	184.4
37.5°	1205.8	942.3	270.4	149.6	130.0	124.9	131.9	137.9	143.0	145.5	148.3
40°	1267.1	952.1	216.7	140.8	122.7	116.4	119.2	121.5	124.6	127.2	128.4
42.5°	1357.6	981.5	194.2	137.3	118.9	109.8	109.1	110.1	114.2	118.9	119.9
45°	1484.1	1033.4	192.6	139.5	117.0	104.4	101.5	102.8	109.1	116.4	117.7
47.5°	1645.8	1112.5	205.3	146.1	118.6	101.5	96.8	98.4	106.3	116.1	117.7
50°	1841.6	1222.9	226.5	155.9	125.6	102.2	95.2	96.2	104.4	115.1	116.7
52.5°	2072.8	1379.4	249.6	165.4	132.8	106.3	96.5	94.3	101.9	111.3	113.2
55°	2329.9	1580.3	273.3	174.0	136.6	111.3	99.0	91.7	97.1	105.0	106.6
57.5°	2645.6	1861.2	314.4	182.2	139.2	114.8	101.5	89.2	91.1	96.8	98.1
60°	3072.9	2258.4	386.8	195.8	144.9	116.1	101.2	87.0	85.1	88.3	88.9
62.5°	3585.0	2689.9	447.3	212.9	154.4	117.0	99.3	85.4	80.0	80.0	80.7
65°	3889.0	2805.3	413.7	227.1	162.3	116.1	97.1	83.8	76.2	72.8	73.1
67.5°	3631.2	2467.2	354.6	230.0	162.0	111.7	93.6	81.0	72.4	67.1	66.7
69°	3308.3	2128.8	328.0	222.4	154.4	106.0	89.2	77.8	69.6	63.9	63.6
70°	3048.0	1922.2	310.6	214.1	146.1	101.9	85.7	75.0	67.4	62.0	61.4
72.5°	2216.1	1259.5	265.4	184.1	120.5	85.4	74.0	65.8	60.1	56.9	56.3
75°	1107.4	600.7	215.4	149.3	92.4	68.3	60.7	55.0	52.2	51.6	51.2
77.5°	363.8	275.2	154.0	111.3	68.6	53.5	49.0	44.9	44.3	46.2	45.5
80°	199.9	160.1	97.7	73.7	46.8	39.2	38.6	36.4	37.3	40.5	39.9
82.5°	101.9	83.2	60.4	44.3	31.6	28.2	30.7	29.4	30.7	33.5	33.2
85°	50.3	45.5	38.3	26.9	20.9	18.0	21.8	22.8	23.4	25.6	25.6
87.5°	29.1	26.9	20.2	12.7	10.4	9.5	12.7	12.3	14.6	15.8	15.5
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)