

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: P458595

Luminaire Tested: **GALN-SA1C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6781 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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: 24 FT

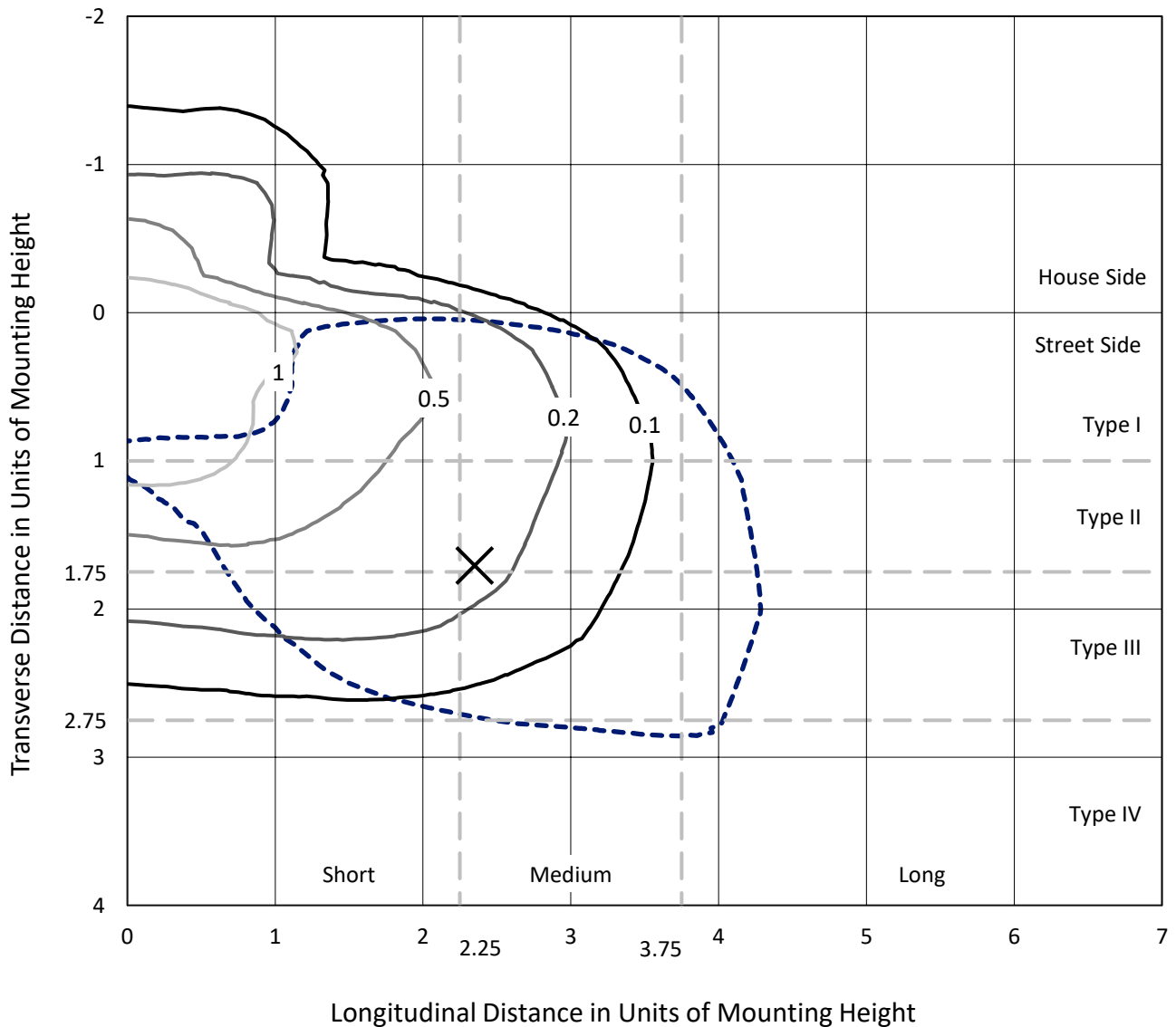




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Iso-Footcandle Lines of Horizontal Illumination

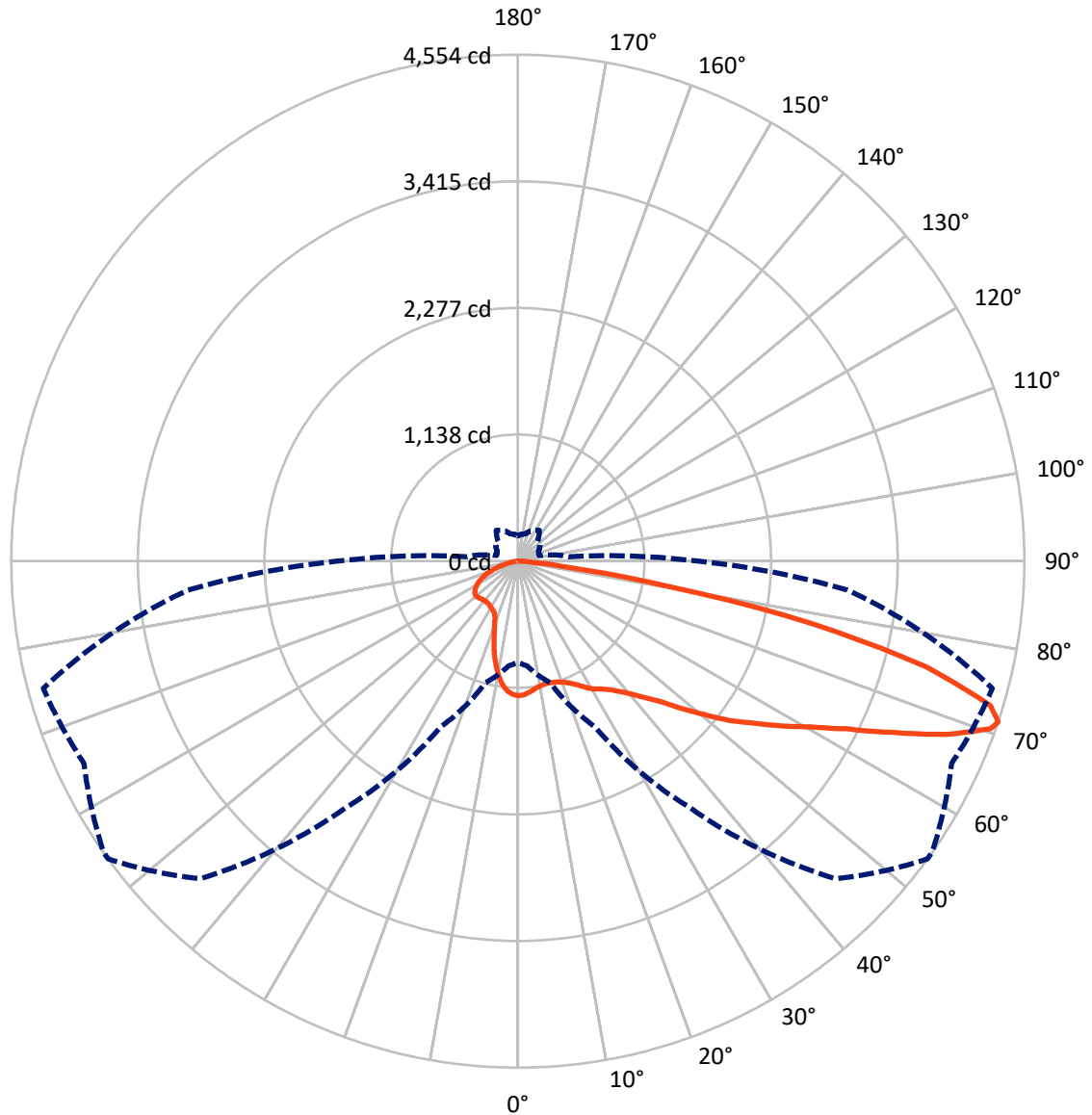
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.3	0.0	1224.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5556.7	0.0	5556.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	6781.0	0.0	6781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.6
10°-20°	284.7	4.2
20°-30°	474.0	7.0
30°-40°	700.9	10.3
40°-50°	987.3	14.6
50°-60°	1322.0	19.5
60°-70°	1666.2	24.6
70°-80°	1138.0	16.8
80°-90°	100.1	1.5
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°	6781.0	100.0
0°-180°	6781.0	100.0

Coefficient of Utilization



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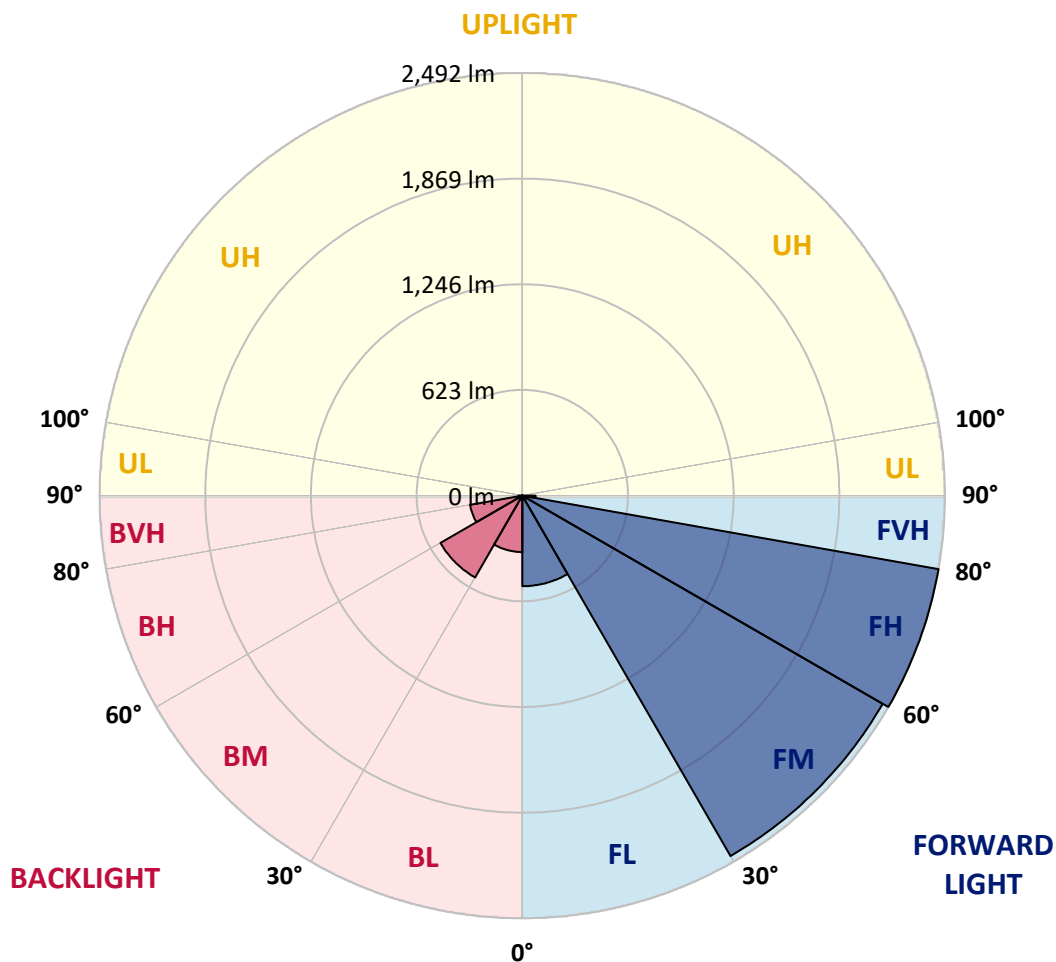
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.8	7.9			
FM (30°-60°)	2453.1	36.2			
FH (60°-80°)	2491.6	36.7			G2/5000
FVH (80°-90°)	78.2	1.2			G1/100
BL (0°-30°)	332.7	4.9	B1/500		
BM (30°-60°)	557.0	8.2	B1/1000		
BH (60°-80°)	312.7	4.6	B1/500		G1/500
BVH (80°-90°)	21.9	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8
2.5°	1168.8	1174.3	1175.8	1179.4	1187.1	1193.3	1199.6	1198.8	1207.6	1211.3	1214.6
5°	1116.8	1118.3	1123.8	1131.1	1144.6	1161.8	1178.7	1179.1	1200.7	1217.9	1226.3
7.5°	1078.7	1083.5	1087.1	1094.8	1109.1	1127.8	1154.5	1156.7	1195.2	1229.2	1247.2
10°	1053.8	1059.3	1063.3	1072.8	1087.1	1108.0	1136.9	1141.0	1191.2	1247.2	1278.7
12.5°	1031.1	1036.6	1040.2	1052.7	1071.4	1097.0	1129.6	1134.4	1192.6	1268.1	1313.1
15°	1045.0	1049.4	1047.9	1051.6	1064.1	1093.4	1132.5	1137.3	1198.1	1288.2	1347.2
17.5°	1106.9	1110.6	1098.5	1084.6	1078.7	1100.3	1141.7	1146.8	1209.1	1309.1	1382.0
20°	1198.1	1208.0	1181.6	1150.5	1122.3	1125.2	1160.7	1166.2	1224.5	1330.0	1417.5
22.5°	1316.8	1324.1	1291.9	1240.6	1188.6	1161.8	1189.3	1192.6	1247.6	1357.1	1456.3
25°	1456.3	1460.7	1416.0	1350.1	1275.0	1224.5	1228.5	1234.4	1285.7	1387.8	1490.8
27.5°	1591.9	1605.8	1554.1	1473.6	1374.7	1290.4	1282.4	1286.0	1327.0	1405.1	1514.6
30°	1752.7	1751.6	1697.0	1603.6	1476.9	1362.2	1333.3	1332.5	1349.4	1413.5	1531.8
32.5°	1880.9	1895.9	1842.4	1740.6	1593.7	1436.6	1368.4	1367.0	1366.6	1428.1	1557.4
35°	2026.6	2028.8	1979.8	1877.2	1720.1	1530.0	1417.5	1410.2	1401.8	1459.6	1592.2
37.5°	2157.0	2167.3	2122.2	2007.2	1844.2	1627.0	1484.9	1480.1	1454.5	1514.2	1647.9
40°	2258.9	2266.6	2239.5	2129.9	1966.6	1731.8	1570.6	1561.8	1530.7	1603.6	1722.3
42.5°	2292.2	2307.9	2318.6	2264.7	2107.2	1856.0	1676.1	1665.1	1641.3	1739.1	1808.0
45°	2294.8	2319.7	2375.7	2378.3	2248.6	2004.7	1799.2	1791.5	1789.7	1912.7	1928.5
47.5°	2275.3	2300.6	2394.8	2445.7	2374.6	2154.8	1976.8	1964.7	1965.8	2127.4	2063.6
50°	2228.5	2258.5	2372.8	2488.9	2473.1	2310.9	2164.4	2160.3	2183.0	2372.4	2203.9
52.5°	2140.2	2176.5	2350.1	2516.0	2546.4	2445.3	2377.5	2366.2	2423.7	2638.3	2357.4
55°	1895.9	1950.5	2266.9	2531.0	2616.0	2573.9	2569.5	2590.0	2666.2	2928.4	2526.2
57.5°	1768.4	1809.4	2086.3	2533.6	2703.9	2723.3	2793.6	2798.8	2932.1	3236.5	2717.1
60°	1698.8	1735.1	1987.4	2516.7	2826.6	2908.3	3022.9	3041.2	3191.8	3570.2	2914.9
62.5°	1638.0	1669.1	1928.1	2458.5	2965.1	3182.6	3320.0	3328.8	3486.6	3938.6	3110.1
65°	1494.8	1530.3	1808.7	2400.2	3084.5	3525.5	3714.1	3703.8	3800.5	4256.6	3232.4
67.5°	1301.8	1346.8	1585.6	2199.2	3143.4	3900.2	4158.0	4145.2	4110.4	4465.0	3267.6
70°	1055.3	1079.4	1300.3	1851.6	2907.9	4096.9	4508.6	4495.0	4302.4	4492.5	3101.3
71°	908.0	945.7	1132.2	1644.6	2712.0	4036.8	4553.6	4550.0	4302.7	4416.6	2976.0
72.5°	708.8	731.8	896.7	1274.3	2305.0	3695.4	4442.3	4456.2	4209.3	4206.0	2717.8
75°	448.3	458.6	562.6	750.1	1264.8	2617.1	3792.1	3829.8	3737.5	3442.7	2021.1
77.5°	260.4	273.6	337.0	442.1	546.5	1420.4	2713.4	2754.4	2596.9	1895.5	827.4
80°	151.6	166.3	222.0	256.8	250.9	527.1	1381.6	1451.6	1124.5	478.7	232.2
82.5°	84.2	94.1	156.0	156.4	133.7	172.2	434.8	454.9	320.9	193.0	94.9
85°	61.2	69.2	100.7	91.2	64.1	74.0	151.3	158.6	129.7	81.3	30.8
87.5°	21.6	30.8	55.3	44.0	17.6	15.4	43.6	35.5	33.0	22.7	7.0
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°	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8	1209.8
2.5°	1216.4	1217.2	1213.5	1206.9	1200.3	1191.9	1182.4	1175.0	1171.7	1171.4	1171.0
5°	1229.6	1231.4	1217.5	1197.0	1174.3	1146.5	1122.7	1095.6	1088.6	1077.6	1080.9
7.5°	1250.9	1249.8	1222.3	1178.7	1125.6	1066.6	1016.8	987.9	957.8	949.4	949.8
10°	1281.3	1274.3	1222.3	1141.3	1052.7	965.2	895.6	851.6	827.8	808.0	800.7
12.5°	1313.5	1295.9	1210.6	1089.0	958.9	851.6	776.9	717.5	702.2	686.0	686.4
15°	1344.3	1315.0	1187.5	1015.3	857.8	730.4	657.8	622.3	617.6	619.4	619.0
17.5°	1372.1	1328.5	1152.3	933.3	739.9	626.3	587.9	590.4	603.3	612.4	613.5
20°	1400.3	1336.6	1099.9	823.4	628.5	563.3	564.8	585.0	604.4	616.8	618.7
22.5°	1427.0	1340.2	1038.4	717.2	548.0	536.6	558.2	579.8	598.9	611.0	612.8
25°	1444.6	1331.8	951.2	606.2	508.4	527.1	549.8	568.1	584.2	596.7	599.6
27.5°	1449.4	1304.7	843.2	516.5	490.1	517.9	538.8	552.4	564.8	576.5	578.7
30°	1446.8	1264.8	724.5	463.7	479.5	507.3	523.4	533.3	548.3	557.5	559.3
32.5°	1442.8	1218.3	600.7	435.5	470.7	497.4	506.9	515.7	515.4	511.7	514.3
35°	1444.3	1162.6	500.3	418.7	463.0	490.1	498.1	487.2	455.7	454.2	452.7
37.5°	1451.9	1107.6	427.5	406.9	459.0	489.0	493.4	442.8	415.0	402.2	398.9
40°	1471.7	1043.5	379.5	398.1	458.6	497.4	471.8	420.5	367.0	342.1	340.3
42.5°	1498.1	980.5	350.2	392.7	463.0	510.2	463.0	389.0	330.8	316.1	313.9
45°	1537.3	908.4	334.0	390.1	469.6	515.0	460.1	365.9	316.1	304.4	304.4
47.5°	1581.6	839.5	325.3	388.3	478.0	511.7	434.0	358.6	309.1	310.6	317.6
50°	1625.6	779.8	318.7	384.2	485.3	509.9	423.4	358.2	311.0	329.7	342.1
52.5°	1676.5	737.7	310.6	377.6	485.3	498.1	420.1	365.5	316.1	321.6	327.1
55°	1738.0	724.5	300.4	363.4	476.5	468.8	418.3	376.2	319.8	306.9	309.1
57.5°	1819.3	745.8	290.5	345.4	456.4	438.4	417.6	379.1	311.3	300.7	298.5
60°	1913.8	787.9	287.5	327.1	428.9	412.4	413.2	370.7	299.6	288.6	290.5
62.5°	1980.1	813.1	285.7	313.2	398.9	383.9	402.5	360.4	294.5	285.0	286.8
65°	1980.1	782.4	268.9	291.9	360.1	349.4	389.7	347.6	287.9	276.9	275.1
67.5°	1905.0	692.6	243.2	260.1	317.2	310.2	371.8	332.2	278.0	269.6	265.2
70°	1709.4	525.2	211.0	222.7	263.0	269.2	348.7	311.3	261.5	251.3	244.7
71°	1623.4	457.5	197.4	203.7	242.1	251.3	337.7	302.5	254.2	239.5	227.8
72.5°	1457.4	385.3	176.9	179.5	206.9	223.4	314.6	285.7	240.3	219.4	206.2
75°	1107.3	281.3	142.5	141.0	153.1	177.3	266.3	254.6	210.6	182.4	174.7
77.5°	478.4	153.1	106.6	107.7	104.0	134.4	209.5	218.7	180.6	148.3	141.4
80°	145.0	88.3	72.9	74.4	69.6	90.1	147.6	171.4	145.0	115.4	105.9
82.5°	74.4	52.7	49.8	49.1	44.3	50.9	89.4	117.2	103.7	72.2	63.7
85°	32.2	28.2	24.5	23.8	20.9	18.3	31.9	58.6	54.9	40.3	38.5
87.5°	8.1	7.3	4.8	4.4	2.6	0.4	0.0	0.0	0.0	0.0	0.0
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)