

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: P450968

Luminaire Tested: **GALN-SA1D-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450968
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-SA1D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8010 lumens
Efficiency: N/A
Efficacy: 123.2 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

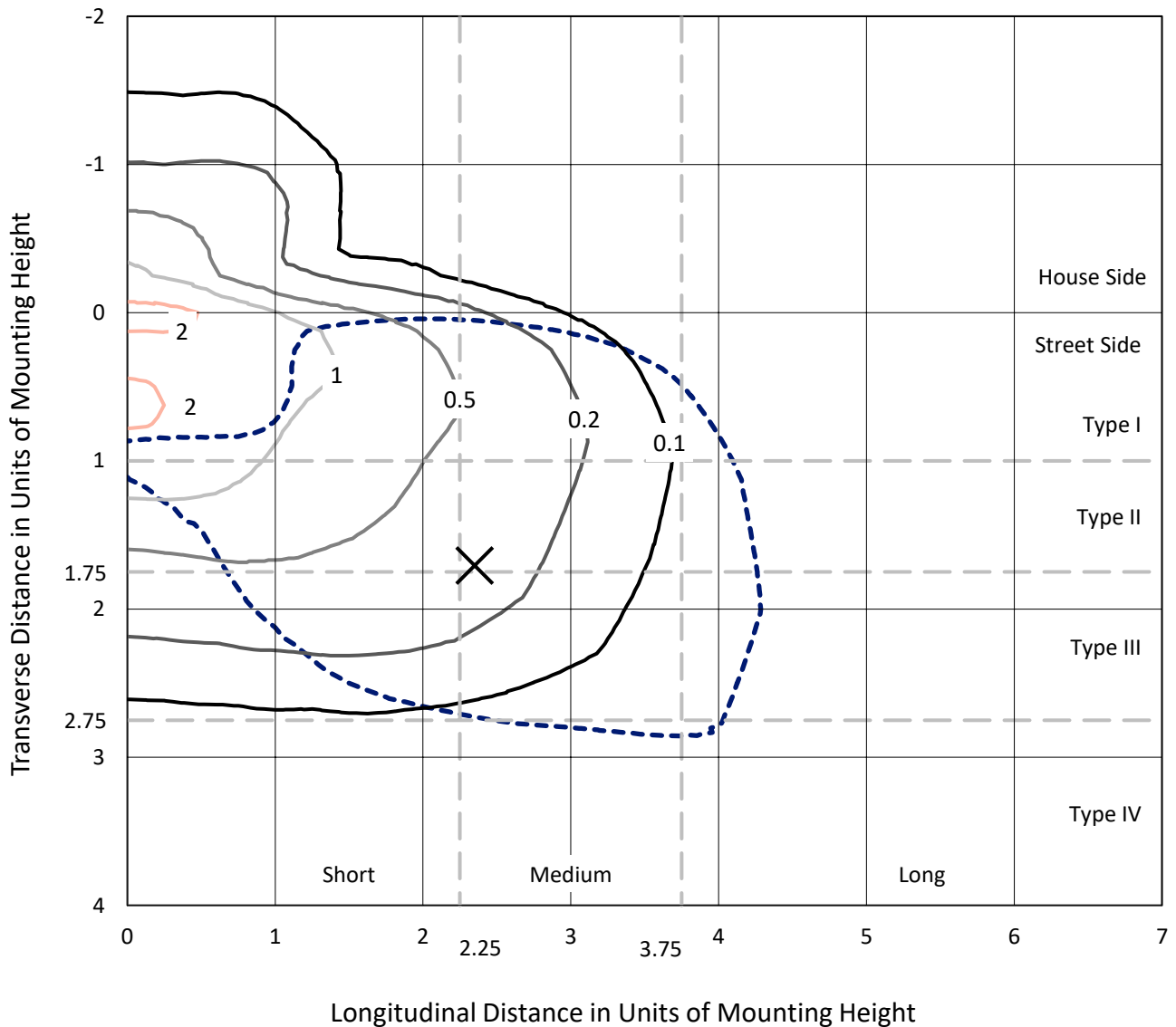
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

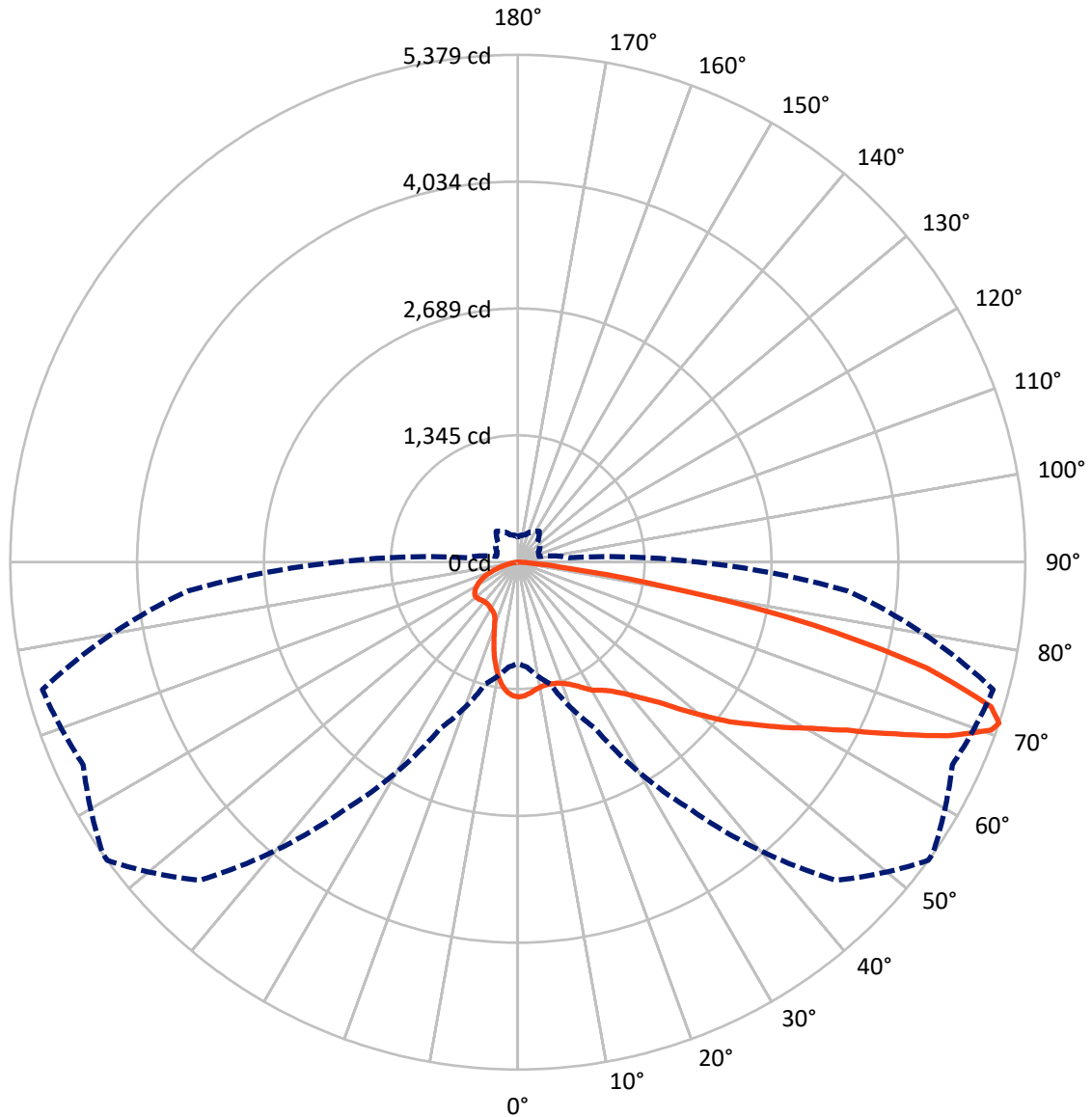
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1446.2	0.0	1446.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6563.8	0.0	6563.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	8010.0	0.0	8010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.6
10°-20°	336.3	4.2
20°-30°	559.9	7.0
30°-40°	827.9	10.3
40°-50°	1166.2	14.6
50°-60°	1561.6	19.5
60°-70°	1968.2	24.6
70°-80°	1344.3	16.8
80°-90°	118.2	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°	8010.0	100.0
0°-180°	8010.0	100.0

Coefficient of Utilization



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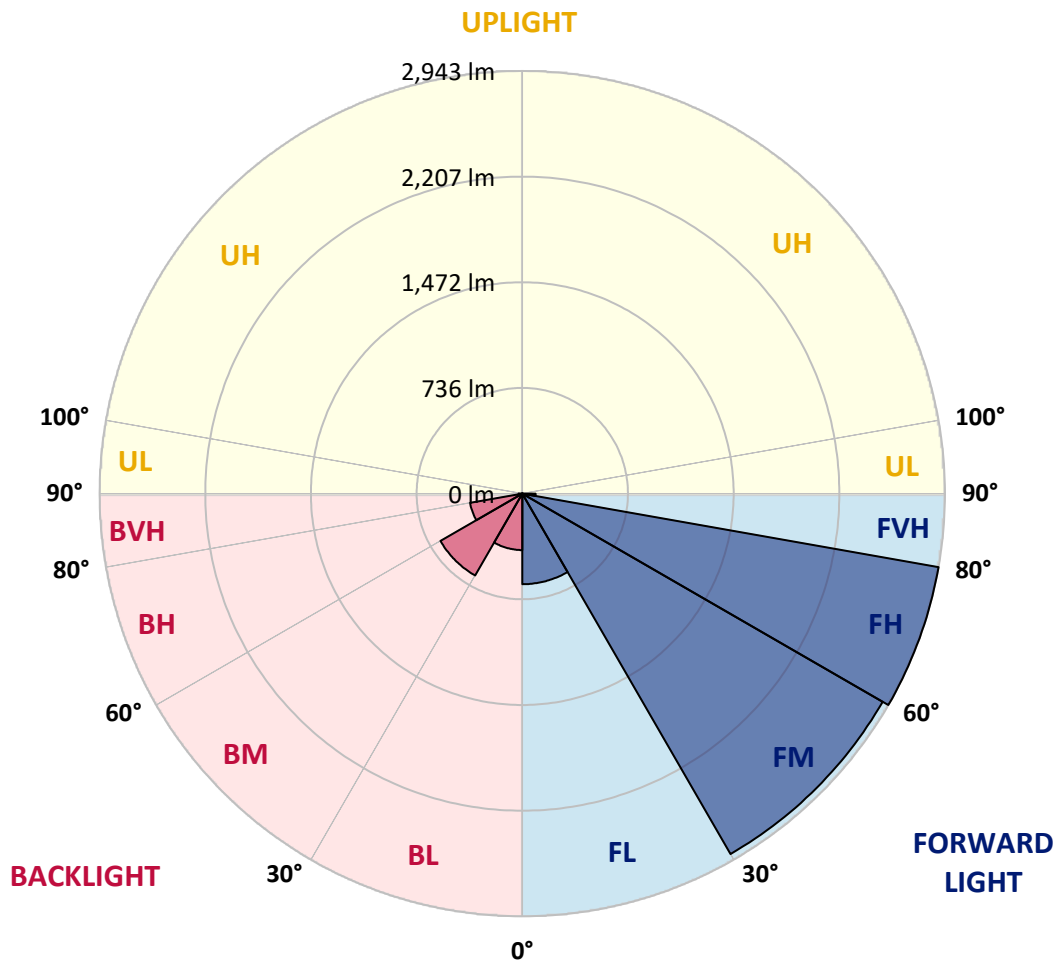
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.5	7.9			
FM (30°-60°)	2897.7	36.2			
FH (60°-80°)	2943.2	36.7			G2/5000
FVH (80°-90°)	92.4	1.2			G1/100
BL (0°-30°)	393.0	4.9	B1/500		
BM (30°-60°)	658.0	8.2	B1/1000		
BH (60°-80°)	369.3	4.6	B1/500		G1/500
BVH (80°-90°)	25.8	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°	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1
2.5°	1380.6	1387.1	1388.9	1393.2	1402.3	1409.6	1417.0	1416.1	1426.5	1430.8	1434.7
5°	1319.2	1320.9	1327.4	1336.1	1352.1	1372.4	1392.3	1392.8	1418.3	1438.6	1448.6
7.5°	1274.2	1279.8	1284.2	1293.2	1310.1	1332.2	1363.8	1366.4	1411.8	1452.0	1473.2
10°	1244.8	1251.3	1256.0	1267.3	1284.2	1308.8	1343.0	1347.8	1407.0	1473.2	1510.4
12.5°	1218.0	1224.5	1228.8	1243.5	1265.6	1295.8	1334.3	1340.0	1408.8	1497.9	1551.1
15°	1234.4	1239.6	1237.9	1242.2	1256.9	1291.5	1337.8	1343.4	1415.3	1521.7	1591.4
17.5°	1307.5	1311.8	1297.6	1281.1	1274.2	1299.7	1348.6	1354.7	1428.2	1546.4	1632.5
20°	1415.3	1426.9	1395.8	1359.0	1325.7	1329.2	1371.1	1377.6	1446.4	1571.0	1674.4
22.5°	1555.4	1564.1	1526.0	1465.4	1404.0	1372.4	1404.9	1408.8	1473.7	1603.0	1720.3
25°	1720.3	1725.5	1672.7	1594.8	1506.1	1446.4	1451.2	1458.1	1518.7	1639.4	1761.0
27.5°	1880.4	1896.8	1835.8	1740.6	1623.8	1524.3	1514.8	1519.1	1567.6	1659.7	1789.1
30°	2070.3	2069.0	2004.6	1894.2	1744.5	1609.1	1574.9	1574.0	1593.9	1669.7	1809.4
32.5°	2221.8	2239.5	2176.3	2056.0	1882.5	1696.9	1616.4	1614.7	1614.3	1687.0	1839.7
35°	2394.0	2396.5	2338.6	2217.4	2031.8	1807.3	1674.4	1665.8	1655.8	1724.2	1880.8
37.5°	2548.0	2560.1	2506.9	2371.0	2178.5	1921.9	1754.0	1748.4	1718.1	1788.6	1946.6
40°	2668.3	2677.3	2645.3	2516.0	2323.0	2045.7	1855.3	1844.9	1808.1	1894.2	2034.4
42.5°	2707.6	2726.2	2738.8	2675.2	2489.1	2192.3	1979.9	1966.9	1938.8	2054.3	2135.6
45°	2710.7	2740.1	2806.3	2809.3	2656.1	2368.0	2125.3	2116.2	2114.0	2259.4	2278.0
47.5°	2687.7	2717.6	2828.8	2888.9	2805.0	2545.4	2335.1	2320.8	2322.1	2512.9	2437.7
50°	2632.4	2667.8	2802.8	2940.0	2921.4	2729.7	2556.6	2551.9	2578.7	2802.4	2603.4
52.5°	2528.1	2570.9	2776.0	2972.0	3007.9	2888.5	2808.4	2795.0	2863.0	3116.5	2784.7
55°	2239.5	2304.0	2677.8	2989.7	3090.1	3040.4	3035.2	3059.4	3149.4	3459.2	2984.1
57.5°	2088.9	2137.4	2464.5	2992.8	3194.0	3216.9	3300.0	3306.0	3463.5	3823.1	3209.5
60°	2006.7	2049.5	2347.7	2972.9	3338.9	3435.4	3570.8	3592.4	3770.3	4217.2	3443.2
62.5°	1934.9	1971.7	2277.6	2904.1	3502.4	3759.5	3921.7	3932.1	4118.6	4652.5	3673.8
65°	1765.7	1807.7	2136.5	2835.3	3643.5	4164.4	4387.3	4375.1	4489.4	5028.0	3818.3
67.5°	1537.7	1590.9	1873.0	2597.7	3713.2	4607.0	4911.6	4896.5	4855.4	5274.2	3859.8
70°	1246.5	1275.1	1536.0	2187.1	3435.0	4839.4	5325.7	5309.7	5082.1	5306.7	3663.4
71°	1072.6	1117.1	1337.4	1942.7	3203.5	4768.4	5378.9	5374.6	5082.6	5217.1	3515.4
72.5°	837.2	864.5	1059.2	1505.3	2722.8	4365.2	5247.4	5263.8	4972.2	4968.3	3210.4
75°	529.6	541.7	664.6	886.1	1494.0	3091.4	4479.4	4524.0	4414.9	4066.6	2387.5
77.5°	307.6	323.2	398.1	522.2	645.5	1677.9	3205.2	3253.7	3067.6	2239.1	977.4
80°	179.1	196.4	262.2	303.3	296.4	622.6	1632.0	1714.7	1328.3	565.5	274.3
82.5°	99.5	111.2	184.3	184.7	157.9	203.4	513.6	537.4	379.0	228.0	112.1
85°	72.3	81.8	119.0	107.7	75.7	87.4	178.7	187.3	153.2	96.1	36.3
87.5°	25.5	36.3	65.3	51.9	20.8	18.2	51.5	42.0	38.9	26.8	8.2
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°	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1	1429.1
2.5°	1436.9	1437.8	1433.4	1425.6	1417.9	1407.9	1396.7	1388.0	1384.1	1383.7	1383.2
5°	1452.5	1454.6	1438.2	1414.0	1387.1	1354.3	1326.1	1294.1	1285.9	1272.9	1276.8
7.5°	1477.6	1476.3	1443.8	1392.3	1329.6	1259.9	1201.1	1166.9	1131.4	1121.5	1121.9
10°	1513.5	1505.3	1443.8	1348.2	1243.5	1140.1	1057.9	1006.0	977.8	954.5	945.8
12.5°	1551.5	1530.8	1430.0	1286.3	1132.7	1006.0	917.7	847.6	829.4	810.4	810.8
15°	1587.9	1553.3	1402.7	1199.4	1013.3	862.7	777.1	735.1	729.5	731.6	731.2
17.5°	1620.8	1569.3	1361.2	1102.4	874.0	739.9	694.4	697.5	712.6	723.4	724.7
20°	1654.1	1578.8	1299.3	972.6	742.5	665.4	667.2	691.0	713.9	728.6	730.8
22.5°	1685.7	1583.1	1226.6	847.2	647.3	633.9	659.4	684.9	707.4	721.7	723.9
25°	1706.4	1573.2	1123.6	716.1	600.5	622.6	649.4	671.1	690.1	704.8	708.3
27.5°	1712.1	1541.2	996.0	610.1	578.9	611.8	636.5	652.5	667.2	681.0	683.6
30°	1709.0	1494.0	855.8	547.8	566.4	599.2	618.3	630.0	647.7	658.5	660.7
32.5°	1704.3	1439.1	709.6	514.4	556.0	587.6	598.8	609.2	608.8	604.4	607.5
35°	1706.0	1373.3	591.0	494.5	546.9	578.9	588.4	575.4	538.2	536.5	534.8
37.5°	1715.1	1308.4	504.9	480.7	542.1	577.6	582.8	523.1	490.2	475.1	471.2
40°	1738.5	1232.7	448.2	470.3	541.7	587.6	557.3	496.7	433.5	404.1	401.9
42.5°	1769.6	1158.3	413.6	463.8	546.9	602.7	546.9	459.5	390.7	373.4	370.8
45°	1815.9	1073.0	394.6	460.8	554.7	608.3	543.4	432.2	373.4	359.5	359.5
47.5°	1868.3	991.7	384.2	458.6	564.6	604.4	512.7	423.6	365.2	366.9	375.1
50°	1920.2	921.2	376.4	453.9	573.3	602.3	500.2	423.1	367.3	389.4	404.1
52.5°	1980.3	871.4	366.9	446.1	573.3	588.4	496.3	431.8	373.4	379.9	386.4
55°	2053.0	855.8	354.8	429.2	562.9	553.8	494.1	444.4	377.7	362.6	365.2
57.5°	2149.1	880.9	343.1	408.0	539.1	517.9	493.2	447.8	367.8	355.2	352.6
60°	2260.7	930.7	339.6	386.4	506.7	487.2	488.0	437.9	353.9	340.9	343.1
62.5°	2339.0	960.5	337.5	369.9	471.2	453.4	475.5	425.7	347.9	336.6	338.8
65°	2339.0	924.2	317.6	344.8	425.3	412.8	460.4	410.6	340.1	327.1	324.9
67.5°	2250.3	818.2	287.3	307.2	374.7	366.5	439.2	392.4	328.4	318.4	313.3
70°	2019.3	620.4	249.2	263.1	310.7	318.0	411.9	367.8	308.9	296.8	289.0
71°	1917.6	540.4	233.2	240.6	286.0	296.8	398.9	357.4	300.3	283.0	269.1
72.5°	1721.6	455.2	209.0	212.0	244.5	263.9	371.7	337.5	283.8	259.2	243.6
75°	1308.0	332.3	168.3	166.6	180.9	209.4	314.5	300.7	248.8	215.5	206.4
77.5°	565.1	180.9	125.9	127.2	122.9	158.8	247.5	258.3	213.3	175.2	167.0
80°	171.3	104.3	86.1	87.8	82.2	106.4	174.4	202.5	171.3	136.3	125.0
82.5°	87.8	62.3	58.8	58.0	52.4	60.1	105.6	138.5	122.4	85.2	75.3
85°	38.1	33.3	29.0	28.1	24.7	21.6	37.6	69.2	64.9	47.6	45.4
87.5°	9.5	8.7	5.6	5.2	3.0	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)