

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: P526788

Luminaire Tested: **GALN-SA1D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6078 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

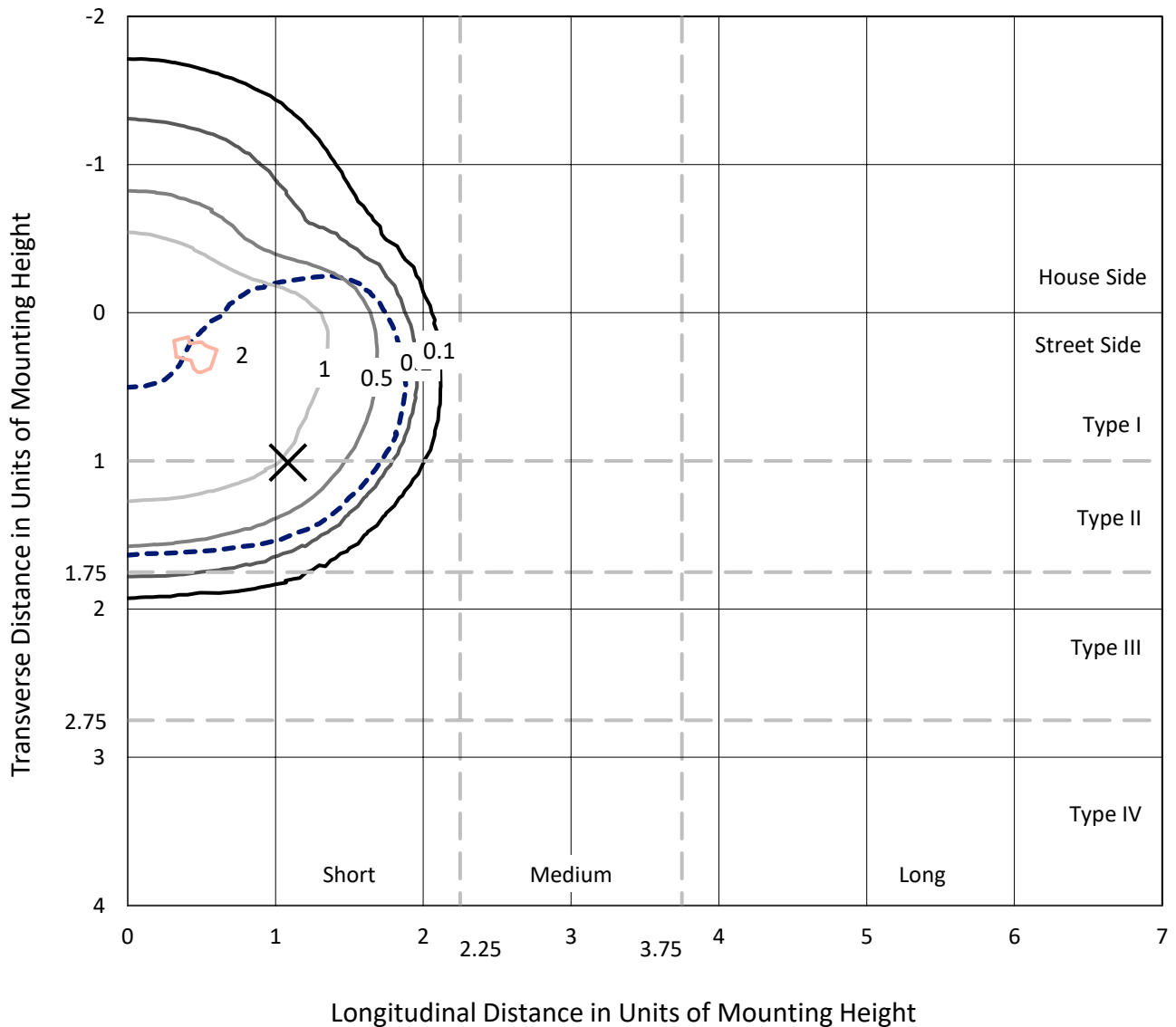
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

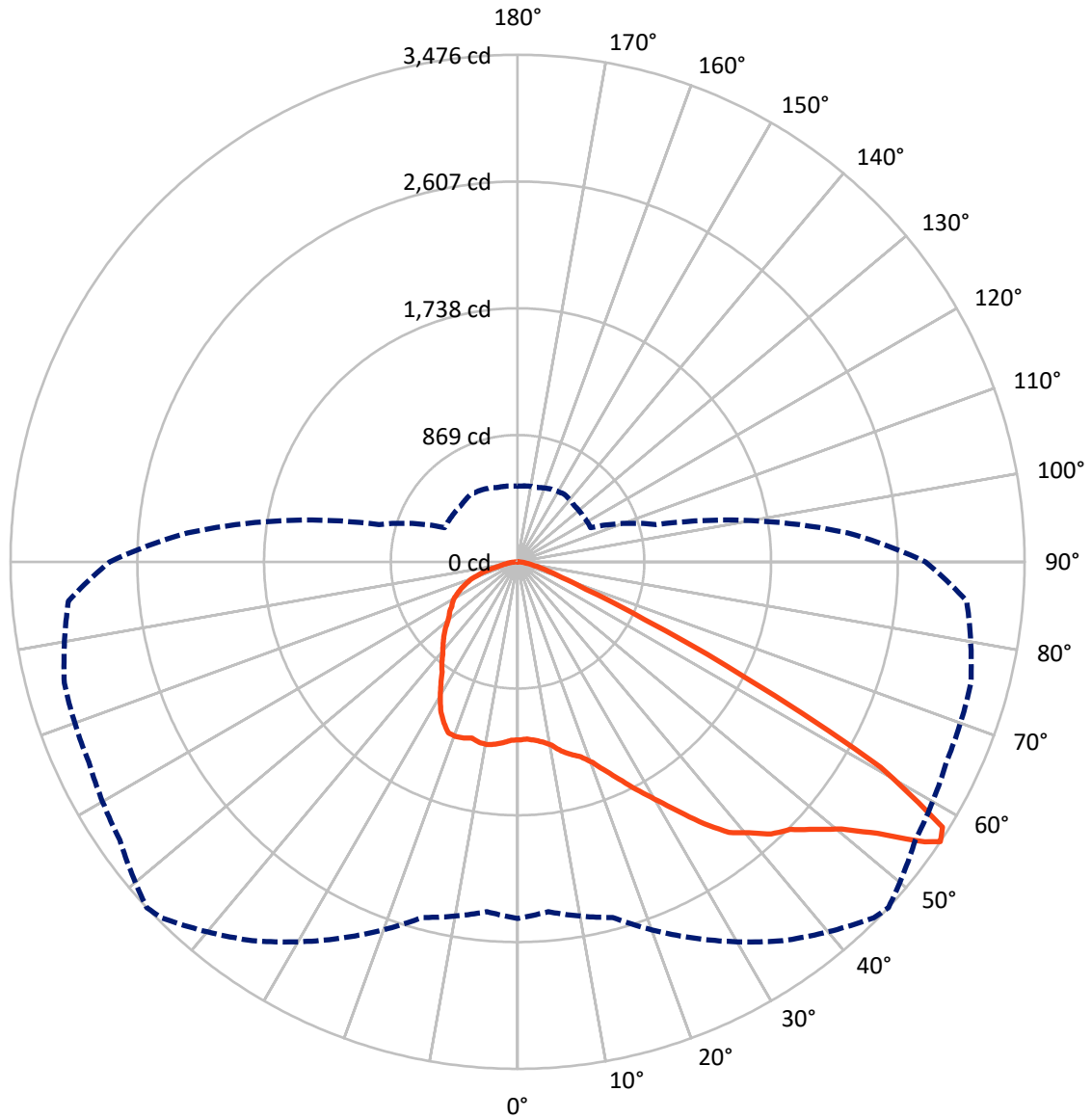
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1926.1	0.0	1926.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	4152.0	0.0	4152.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	6078.0	0.0	6078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	2.0
10°-20°	375.3	6.2
20°-30°	663.4	10.9
30°-40°	996.3	16.4
40°-50°	1367.4	22.5
50°-60°	1629.1	26.8
60°-70°	697.1	11.5
70°-80°	197.3	3.2
80°-90°	33.2	0.5
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°	6078.0	100.0
0°-180°	6078.0	100.0

Coefficient of Utilization



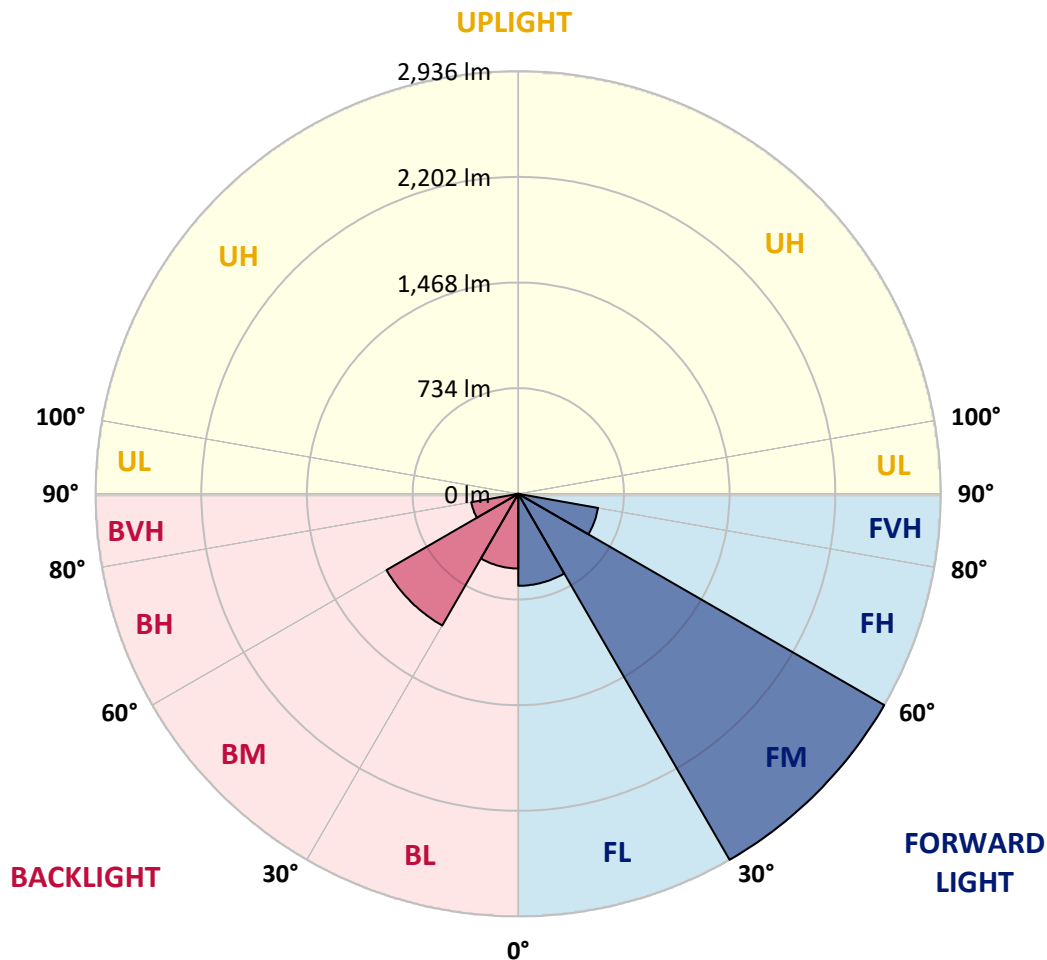
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.0	10.5			
FM (30°-60°)	2935.8	48.3			
FH (60°-80°)	563.0	9.3			G0/660
FVH (80°-90°)	14.1	0.2			G1/100
BL (0°-30°)	518.6	8.5	B2/1000		
BM (30°-60°)	1057.0	17.4	B2/2500		
BH (60°-80°)	331.4	5.5	B1/500		G1/500
BVH (80°-90°)	19.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1216.2	1213.9	1212.4	1224.8	1220.1	1220.9	1216.2	1220.9	1224.0	1217.0	1227.1
5°	1213.9	1220.9	1214.7	1218.6	1228.6	1225.5	1228.6	1237.9	1235.6	1233.3	1230.2
7.5°	1235.6	1236.4	1241.0	1242.6	1245.7	1242.6	1247.2	1255.8	1253.4	1240.3	1241.8
10°	1266.6	1268.2	1268.9	1277.5	1282.9	1283.7	1278.2	1270.5	1269.7	1287.5	1275.1
12.5°	1302.3	1298.4	1307.7	1310.8	1317.0	1324.0	1331.0	1314.7	1324.8	1325.5	1310.8
15°	1354.2	1358.1	1347.2	1347.2	1349.6	1350.3	1369.7	1362.0	1360.4	1351.9	1358.1
17.5°	1431.7	1405.4	1404.6	1393.7	1392.2	1398.4	1405.4	1411.6	1432.5	1415.5	1382.1
20°	1488.3	1494.5	1472.0	1458.9	1461.2	1475.1	1468.2	1496.1	1510.8	1482.9	1450.3
22.5°	1588.3	1567.4	1572.8	1543.4	1545.7	1560.4	1559.6	1588.3	1596.8	1552.7	1505.4
25°	1655.8	1650.3	1655.0	1631.7	1634.8	1646.5	1665.1	1712.3	1698.4	1649.6	1540.3
27.5°	1754.2	1743.3	1739.5	1730.9	1727.8	1758.9	1780.6	1830.9	1820.9	1749.5	1602.3
30°	1855.0	1848.0	1851.9	1817.0	1829.4	1895.3	1901.5	1970.5	1965.8	1840.2	1671.3
32.5°	1924.7	1928.6	1935.6	1916.2	1971.2	2024.0	2044.9	2123.2	2127.1	1996.1	1804.6
35°	2037.1	2024.0	2027.8	2050.3	2075.9	2172.0	2206.1	2258.1	2290.6	2159.6	1932.5
37.5°	2107.7	2121.6	2105.3	2141.0	2207.7	2323.2	2354.2	2407.7	2441.8	2320.8	2106.9
40°	2217.7	2195.3	2206.9	2232.5	2300.7	2451.1	2442.5	2497.6	2508.4	2458.0	2269.7
42.5°	2336.3	2325.5	2309.2	2367.4	2424.7	2534.0	2551.1	2525.5	2580.5	2592.2	2502.2
45°	2478.2	2491.4	2493.7	2495.3	2545.6	2641.0	2617.7	2595.3	2658.8	2743.3	2646.4
47.5°	2610.0	2568.1	2598.4	2640.2	2711.5	2712.3	2739.4	2685.9	2753.4	2828.6	2776.6
50°	2654.2	2634.0	2674.3	2753.4	2863.5	2875.1	2878.2	2802.2	2837.1	2896.8	2821.6
52.5°	2637.1	2630.1	2733.2	2855.7	3016.9	3075.9	3091.4	2997.6	3016.9	2989.8	2920.8
55°	2555.7	2576.6	2680.5	2930.1	3177.4	3359.6	3389.0	3270.4	3147.2	3168.1	3092.1
56°	2444.1	2407.7	2523.9	2845.6	3170.4	3451.8	3475.8	3327.8	3244.1	3216.9	3090.6
57.5°	2073.6	2026.3	2179.0	2560.4	2994.5	3416.9	3434.8	3351.8	3227.8	3172.8	2865.0
60°	1213.9	1237.2	1431.0	1765.8	2310.0	2801.4	2861.1	2921.6	2838.7	2592.2	2132.5
62.5°	586.0	571.3	710.1	1012.4	1407.7	1788.3	1770.5	1940.2	2033.3	1841.8	1346.5
65°	307.0	305.4	387.6	552.7	773.6	939.5	955.8	1047.2	1175.2	948.8	683.7
67.5°	225.6	231.8	272.9	388.4	497.7	507.7	505.4	551.1	563.5	476.7	420.1
70°	176.7	179.8	210.1	295.3	370.5	331.8	324.8	330.2	366.7	382.2	363.6
72.5°	127.9	131.0	156.6	199.2	231.8	226.3	231.0	261.2	306.2	322.5	303.1
75°	85.3	87.6	101.5	121.7	137.2	148.1	156.6	191.5	233.3	242.6	233.3
77.5°	58.9	61.2	70.5	86.0	87.6	94.6	97.7	113.9	139.5	151.2	145.0
80°	33.3	33.3	38.0	44.2	54.3	63.6	65.1	78.3	89.9	97.7	99.2
82.5°	15.5	16.3	20.2	27.1	35.7	44.2	45.7	54.3	62.8	70.5	72.9
85°	7.8	8.5	11.6	16.3	21.7	26.4	25.6	26.4	27.9	26.4	27.1
87.5°	2.3	2.3	3.1	3.9	3.1	3.9	3.9	4.7	5.4	6.2	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°	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1227.9	1230.2	1214.7	1229.4	1224.0	1223.2	1234.1	1232.5	1236.4	1234.8	1225.5
5°	1228.6	1223.2	1239.5	1224.8	1231.7	1246.5	1236.4	1259.6	1248.0	1255.8	1238.7
7.5°	1252.7	1254.2	1251.1	1257.3	1254.2	1261.2	1255.8	1261.2	1251.9	1252.7	1268.2
10°	1273.6	1268.9	1274.4	1266.6	1272.0	1269.7	1257.3	1253.4	1256.5	1252.7	1262.7
12.5°	1312.4	1303.8	1300.0	1290.7	1284.4	1261.2	1241.8	1231.0	1245.7	1248.0	1243.4
15°	1351.9	1352.7	1334.8	1313.9	1275.1	1240.3	1244.9	1248.8	1248.8	1255.0	1243.4
17.5°	1376.7	1376.7	1360.4	1318.6	1279.0	1258.9	1254.2	1241.8	1231.0	1229.4	1228.6
20°	1420.1	1406.9	1369.7	1317.8	1277.5	1268.2	1233.3	1203.8	1181.4	1173.6	1172.8
22.5°	1469.7	1436.4	1384.4	1319.3	1275.1	1262.0	1196.9	1152.7	1112.4	1095.3	1097.6
25°	1515.4	1462.0	1393.0	1312.4	1266.6	1203.1	1130.2	1069.0	1027.1	1013.1	1006.2
27.5°	1547.2	1489.1	1393.0	1318.6	1234.8	1137.2	1062.8	984.5	948.0	938.7	940.3
30°	1589.9	1523.2	1417.0	1305.4	1171.3	1051.9	962.8	911.6	889.9	882.1	887.6
32.5°	1689.9	1612.3	1450.3	1273.6	1096.1	966.6	894.5	865.9	834.1	818.6	813.1
35°	1798.4	1696.8	1482.9	1220.1	1011.6	889.1	844.2	817.8	779.8	762.8	765.9
37.5°	1951.9	1805.4	1485.2	1131.7	920.1	845.7	804.6	763.5	732.5	706.2	698.4
40°	2158.8	1953.4	1479.8	1038.7	846.5	794.5	764.3	713.2	678.3	659.7	663.5
42.5°	2341.0	2127.1	1457.3	933.3	779.8	759.7	725.6	675.2	641.1	621.7	620.1
45°	2494.5	2255.0	1414.7	843.4	724.0	720.9	681.4	642.6	615.5	597.7	605.4
47.5°	2636.3	2358.1	1350.3	753.5	672.8	679.0	641.1	617.0	600.0	583.7	582.9
50°	2687.5	2356.5	1293.8	679.0	631.8	628.7	627.1	601.5	583.7	569.7	575.9
52.5°	2772.8	2382.9	1232.5	627.9	594.6	595.3	600.8	582.1	562.0	553.5	561.2
55°	2895.2	2386.7	1097.6	568.2	563.5	569.0	569.0	556.6	539.5	532.5	528.7
56°	2795.2	2271.2	984.5	552.7	548.0	548.0	562.8	548.8	527.9	522.5	517.8
57.5°	2578.2	1989.8	824.0	534.1	527.1	538.0	545.7	531.0	511.6	503.9	508.5
60°	1778.2	1346.5	619.4	493.8	493.8	511.6	517.8	496.1	487.6	486.8	480.6
62.5°	1037.9	784.5	484.5	457.3	458.9	473.6	478.3	465.9	455.0	468.2	474.4
65°	550.4	468.2	415.5	418.6	419.4	431.0	451.1	450.4	449.6	453.5	454.2
67.5°	398.4	389.1	377.5	374.4	376.0	384.5	404.6	420.1	419.4	410.1	403.1
70°	355.0	341.8	334.9	335.6	329.4	339.5	355.8	365.9	348.0	337.2	332.5
72.5°	295.3	291.5	286.8	287.6	275.2	272.9	254.3	254.3	249.6	246.5	251.9
75°	225.6	224.0	226.3	222.5	209.3	195.3	184.5	174.4	158.9	152.7	149.6
77.5°	142.6	147.3	152.7	144.2	138.8	128.7	117.8	107.7	95.3	88.4	88.4
80°	96.9	100.8	104.6	103.1	96.9	87.6	79.1	68.2	59.7	54.3	53.5
82.5°	73.6	76.7	82.2	76.0	69.8	62.0	55.0	47.3	39.5	33.3	33.3
85°	26.4	30.2	33.3	36.4	38.8	39.5	34.1	27.9	22.5	17.8	17.1
87.5°	7.0	7.8	8.5	7.8	7.8	7.8	8.5	7.8	7.0	5.4	5.4
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)