

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: P527178

Luminaire Tested: **GALN-SA2A-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527178
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-SA2A-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6231 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

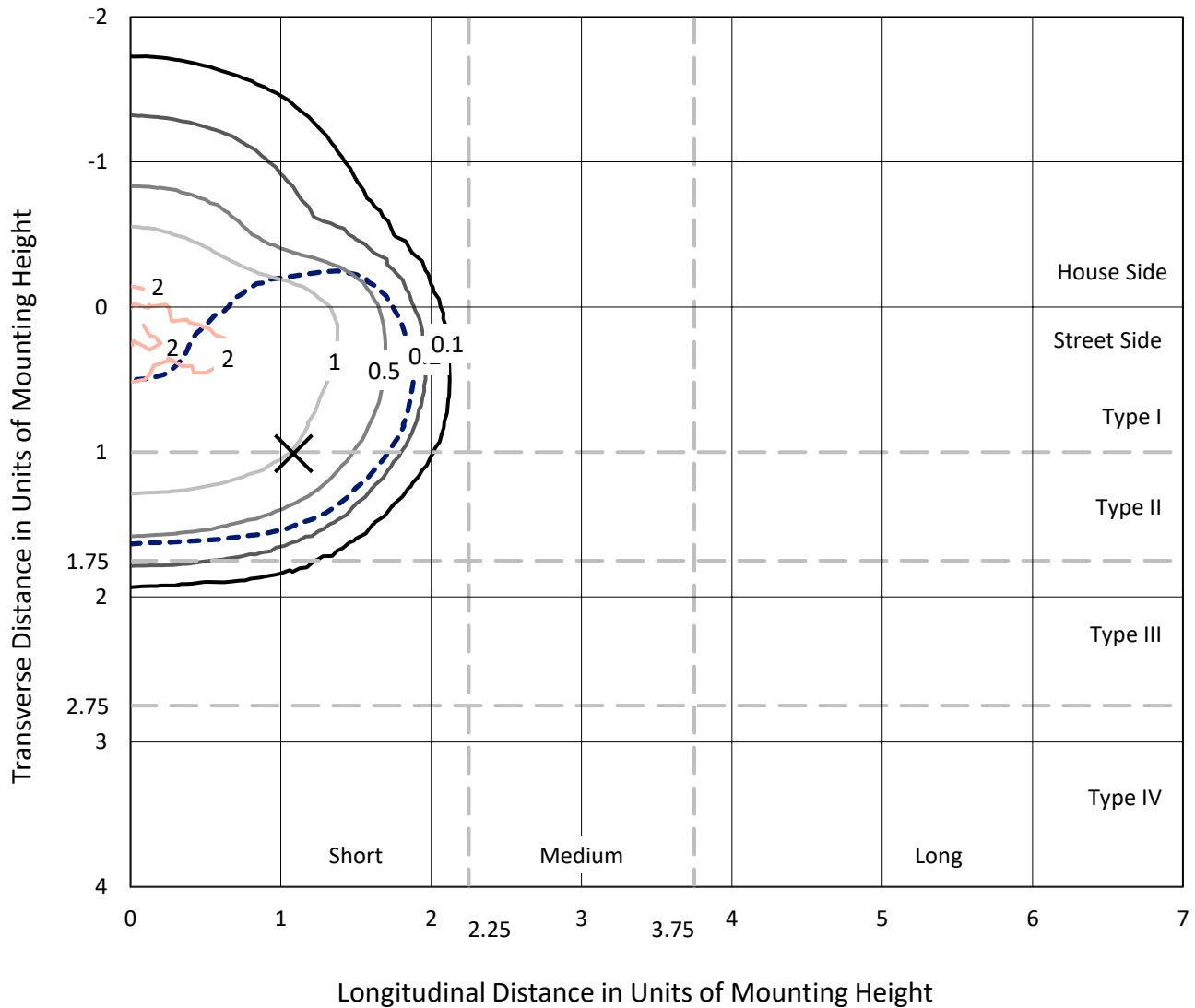
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

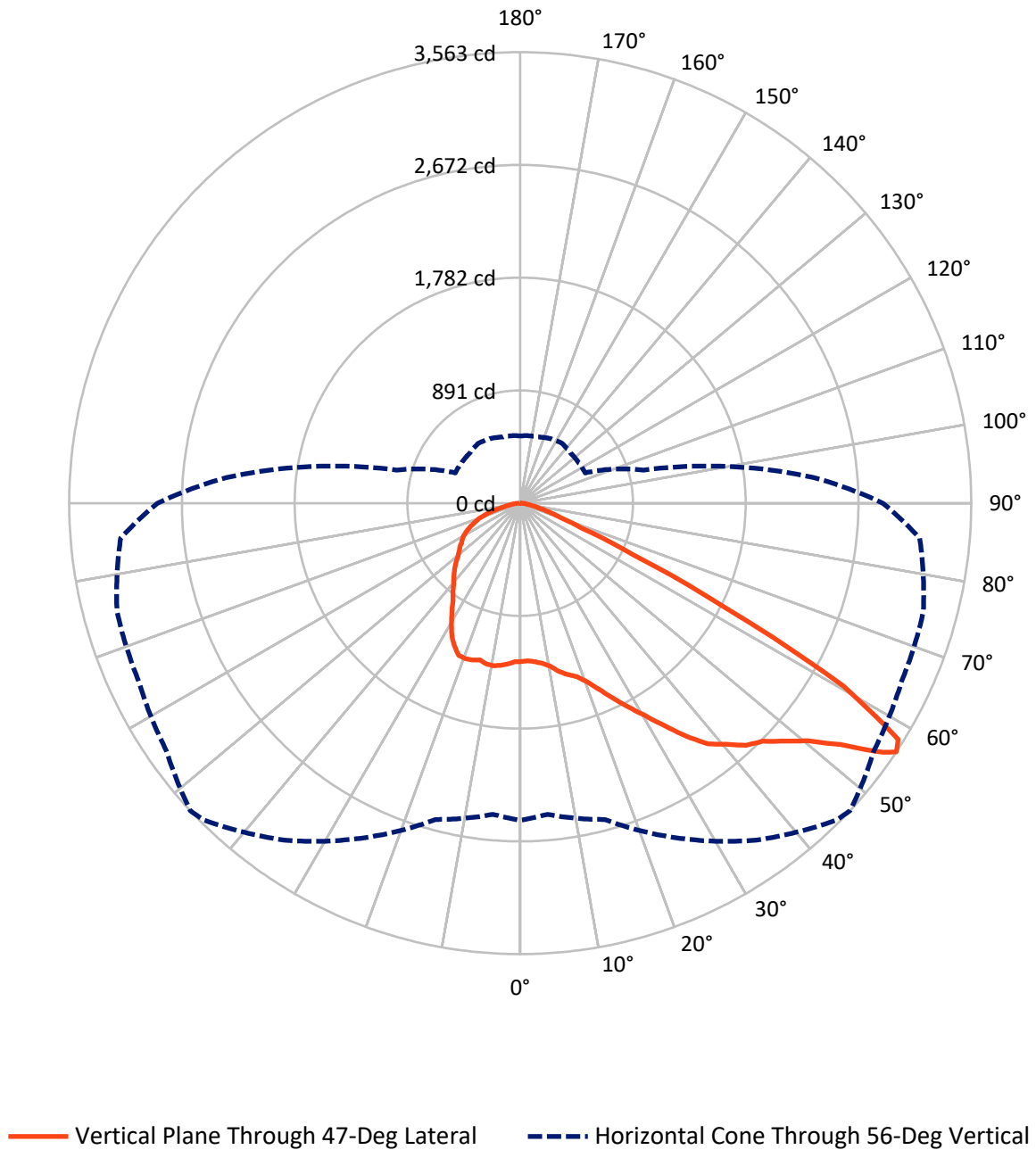
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.5	0.0	1974.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	4256.5	0.0	4256.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	6231.0	0.0	6231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.0
10°-20°	384.7	6.2
20°-30°	680.1	10.9
30°-40°	1021.4	16.4
40°-50°	1401.8	22.5
50°-60°	1670.1	26.8
60°-70°	714.7	11.5
70°-80°	202.3	3.2
80°-90°	34.0	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°	6231.0	100.0
0°-180°	6231.0	100.0

Coefficient of Utilization



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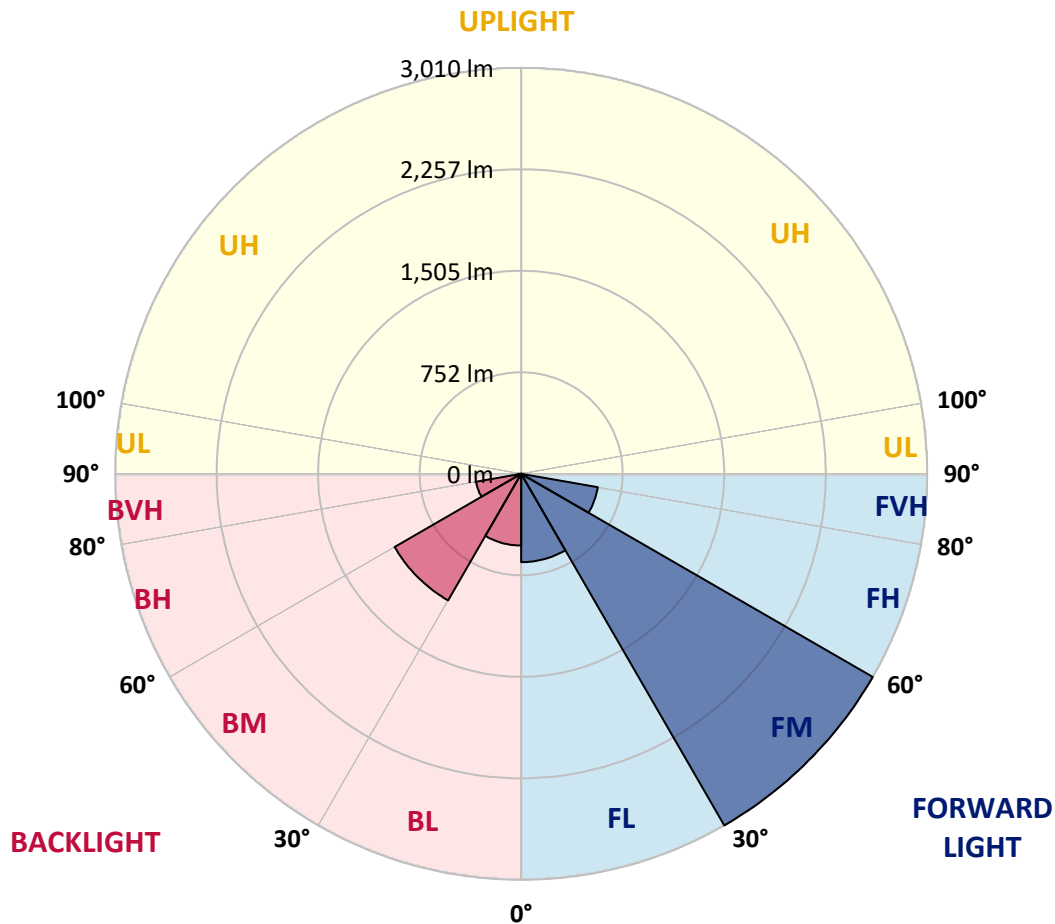
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.1	10.5			
FM	(30°-60°)	3009.7	48.3			
FH	(60°-80°)	577.2	9.3			G0/660
FVH	(80°-90°)	14.5	0.2			G1/100
BL	(0°-30°)	531.6	8.5	B2/1000		
BM	(30°-60°)	1083.6	17.4	B2/2500		
BH	(60°-80°)	339.7	5.5	B1/500		G1/500
BVH	(80°-90°)	19.6	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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1246.9	1244.5	1242.9	1255.6	1250.8	1251.6	1246.9	1251.6	1254.8	1247.6	1258.0
5°	1244.5	1251.6	1245.3	1249.2	1259.6	1256.4	1259.6	1269.1	1266.7	1264.3	1261.2
7.5°	1266.7	1267.5	1272.3	1273.9	1277.0	1273.9	1278.6	1287.4	1285.0	1271.5	1273.1
10°	1298.5	1300.1	1300.9	1309.6	1315.2	1316.0	1310.4	1302.5	1301.7	1320.0	1307.2
12.5°	1335.1	1331.1	1340.6	1343.8	1350.2	1357.3	1364.5	1347.8	1358.1	1358.9	1343.8
15°	1388.3	1392.3	1381.2	1381.2	1383.5	1384.3	1404.2	1396.3	1394.7	1385.9	1392.3
17.5°	1467.8	1440.8	1440.0	1428.8	1427.2	1433.6	1440.8	1447.1	1468.6	1451.1	1416.9
20°	1525.8	1532.1	1509.1	1495.6	1498.0	1512.3	1505.1	1533.7	1548.8	1520.2	1486.8
22.5°	1628.3	1606.8	1612.4	1582.2	1584.6	1599.7	1598.9	1628.3	1637.0	1591.7	1543.3
25°	1697.4	1691.9	1696.6	1672.8	1676.0	1687.9	1707.0	1755.4	1741.1	1691.1	1579.0
27.5°	1798.4	1787.2	1783.3	1774.5	1771.3	1803.1	1825.4	1877.0	1866.7	1793.6	1642.6
30°	1901.7	1894.5	1898.5	1862.7	1875.4	1943.0	1949.3	2020.1	2015.3	1886.6	1713.3
32.5°	1973.2	1977.2	1984.3	1964.4	2020.9	2074.9	2096.4	2176.6	2180.6	2046.3	1850.0
35°	2088.4	2074.9	2078.9	2101.9	2128.1	2226.7	2261.7	2314.9	2348.3	2214.0	1981.1
37.5°	2160.7	2175.0	2158.3	2194.9	2263.2	2381.7	2413.4	2468.3	2503.2	2379.3	2159.9
40°	2273.6	2250.5	2262.4	2288.7	2358.6	2512.8	2504.0	2560.5	2571.6	2519.9	2326.8
42.5°	2395.2	2384.0	2367.3	2426.9	2485.8	2597.8	2615.3	2589.1	2645.5	2657.4	2565.2
45°	2540.6	2554.1	2556.5	2558.1	2609.7	2707.5	2683.6	2660.6	2725.7	2812.4	2713.0
47.5°	2675.7	2632.8	2663.8	2706.7	2779.8	2780.6	2808.4	2753.6	2822.7	2899.8	2846.5
50°	2721.0	2700.3	2741.6	2822.7	2935.5	2947.5	2950.6	2872.8	2908.5	2969.7	2892.6
52.5°	2703.5	2696.3	2802.0	2927.6	3092.9	3153.3	3169.2	3073.0	3092.9	3065.1	2994.3
55°	2620.1	2641.5	2748.0	3003.9	3257.4	3444.1	3474.3	3352.7	3226.4	3247.9	3170.0
56°	2505.6	2468.3	2587.5	2917.3	3250.2	3538.7	3563.3	3411.6	3325.7	3297.9	3168.4
57.5°	2125.8	2077.3	2233.8	2624.8	3069.8	3502.9	3521.2	3436.2	3309.0	3252.6	2937.1
60°	1244.5	1268.3	1467.0	1810.3	2368.1	2872.0	2933.2	2995.1	2910.1	2657.4	2186.2
62.5°	600.8	585.7	727.9	1037.9	1443.1	1833.3	1815.0	1989.1	2084.4	1888.2	1380.4
65°	314.7	313.1	397.3	566.6	793.1	963.2	979.8	1073.6	1204.7	972.7	700.9
67.5°	231.3	237.6	279.7	398.1	510.2	520.5	518.1	565.0	577.7	488.7	430.7
70°	181.2	184.4	215.4	302.8	379.9	340.1	333.0	338.5	375.9	391.8	372.7
72.5°	131.1	134.3	160.5	204.2	237.6	232.0	236.8	267.8	313.9	330.6	310.7
75°	87.4	89.8	104.1	124.8	140.7	151.8	160.5	196.3	239.2	248.7	239.2
77.5°	60.4	62.8	72.3	88.2	89.8	97.0	100.1	116.8	143.0	155.0	148.6
80°	34.2	34.2	38.9	45.3	55.6	65.2	66.8	80.3	92.2	100.1	101.7
82.5°	15.9	16.7	20.7	27.8	36.6	45.3	46.9	55.6	64.4	72.3	74.7
85°	7.9	8.7	11.9	16.7	22.3	27.0	26.2	27.0	28.6	27.0	27.8
87.5°	2.4	2.4	3.2	4.0	3.2	4.0	4.0	4.8	5.6	6.4	7.2
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°	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6	1251.6
2.5°	1258.8	1261.2	1245.3	1260.4	1254.8	1254.0	1265.1	1263.5	1267.5	1265.9	1256.4
5°	1259.6	1254.0	1270.7	1255.6	1262.7	1277.8	1267.5	1291.4	1279.4	1287.4	1269.9
7.5°	1284.2	1285.8	1282.6	1289.0	1285.8	1292.9	1287.4	1292.9	1283.4	1284.2	1300.1
10°	1305.7	1300.9	1306.5	1298.5	1304.1	1301.7	1289.0	1285.0	1288.2	1284.2	1294.5
12.5°	1345.4	1336.6	1332.7	1323.1	1316.8	1292.9	1273.1	1261.9	1277.0	1279.4	1274.7
15°	1385.9	1386.7	1368.4	1347.0	1307.2	1271.5	1276.3	1280.2	1280.2	1286.6	1274.7
17.5°	1411.3	1411.3	1394.7	1351.7	1311.2	1290.6	1285.8	1273.1	1261.9	1260.4	1259.6
20°	1455.9	1442.3	1404.2	1351.0	1309.6	1300.1	1264.3	1234.1	1211.1	1203.1	1202.3
22.5°	1506.7	1472.5	1419.3	1352.5	1307.2	1293.7	1227.0	1181.7	1140.4	1122.9	1125.3
25°	1553.6	1498.8	1428.0	1345.4	1298.5	1233.3	1158.6	1095.9	1052.9	1038.6	1031.5
27.5°	1586.2	1526.6	1428.0	1351.7	1265.9	1165.8	1089.5	1009.2	971.9	962.4	963.9
30°	1629.9	1561.5	1452.7	1338.2	1200.8	1078.4	987.0	934.5	912.3	904.3	909.9
32.5°	1732.4	1652.9	1486.8	1305.7	1123.7	991.0	917.1	887.7	855.1	839.2	833.6
35°	1843.7	1739.6	1520.2	1250.8	1037.1	911.5	865.4	838.4	799.4	782.0	785.1
37.5°	2001.0	1850.8	1522.6	1160.2	943.3	867.0	824.9	782.8	751.0	724.0	716.0
40°	2213.2	2002.6	1517.0	1064.9	867.8	814.5	783.6	731.1	695.3	676.3	680.2
42.5°	2399.9	2180.6	1494.0	956.8	799.4	778.8	743.8	692.2	657.2	637.3	635.7
45°	2557.3	2311.7	1450.3	864.6	742.2	739.1	698.5	658.8	631.0	612.7	620.6
47.5°	2702.7	2417.4	1384.3	772.4	689.8	696.1	657.2	632.6	615.1	598.4	597.6
50°	2755.2	2415.8	1326.3	696.1	647.7	644.5	642.9	616.7	598.4	584.1	590.4
52.5°	2842.6	2442.8	1263.5	643.7	609.5	610.3	615.9	596.8	576.1	567.4	575.3
55°	2968.1	2446.8	1125.3	582.5	577.7	583.3	583.3	570.6	553.1	545.9	542.0
56°	2865.6	2328.4	1009.2	566.6	561.8	561.8	576.9	562.6	541.2	535.6	530.8
57.5°	2643.1	2039.9	844.7	547.5	540.4	551.5	559.5	544.4	524.5	516.5	521.3
60°	1823.0	1380.4	634.9	506.2	506.2	524.5	530.8	508.6	499.9	499.1	492.7
62.5°	1064.1	804.2	496.7	468.9	470.4	485.5	490.3	477.6	466.5	480.0	486.3
65°	564.2	480.0	425.9	429.1	429.9	441.8	462.5	461.7	460.9	464.9	465.7
67.5°	408.5	398.9	387.0	383.8	385.4	394.2	414.8	430.7	429.9	420.4	413.2
70°	364.0	350.5	343.3	344.1	337.7	348.1	364.8	375.1	356.8	345.7	340.9
72.5°	302.8	298.8	294.0	294.8	282.1	279.7	260.7	260.7	255.9	252.7	258.3
75°	231.3	229.7	232.0	228.1	214.6	200.3	189.1	178.8	162.9	156.6	153.4
77.5°	146.2	151.0	156.6	147.8	142.2	131.9	120.8	110.5	97.7	90.6	90.6
80°	99.3	103.3	107.3	105.7	99.3	89.8	81.1	69.9	61.2	55.6	54.8
82.5°	75.5	78.7	84.2	77.9	71.5	63.6	56.4	48.5	40.5	34.2	34.2
85°	27.0	31.0	34.2	37.3	39.7	40.5	35.0	28.6	23.0	18.3	17.5
87.5°	7.2	7.9	8.7	7.9	7.9	7.9	8.7	7.9	7.2	5.6	5.6
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)