

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: P451753

Luminaire Tested: **GALN-SA2C-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10370 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

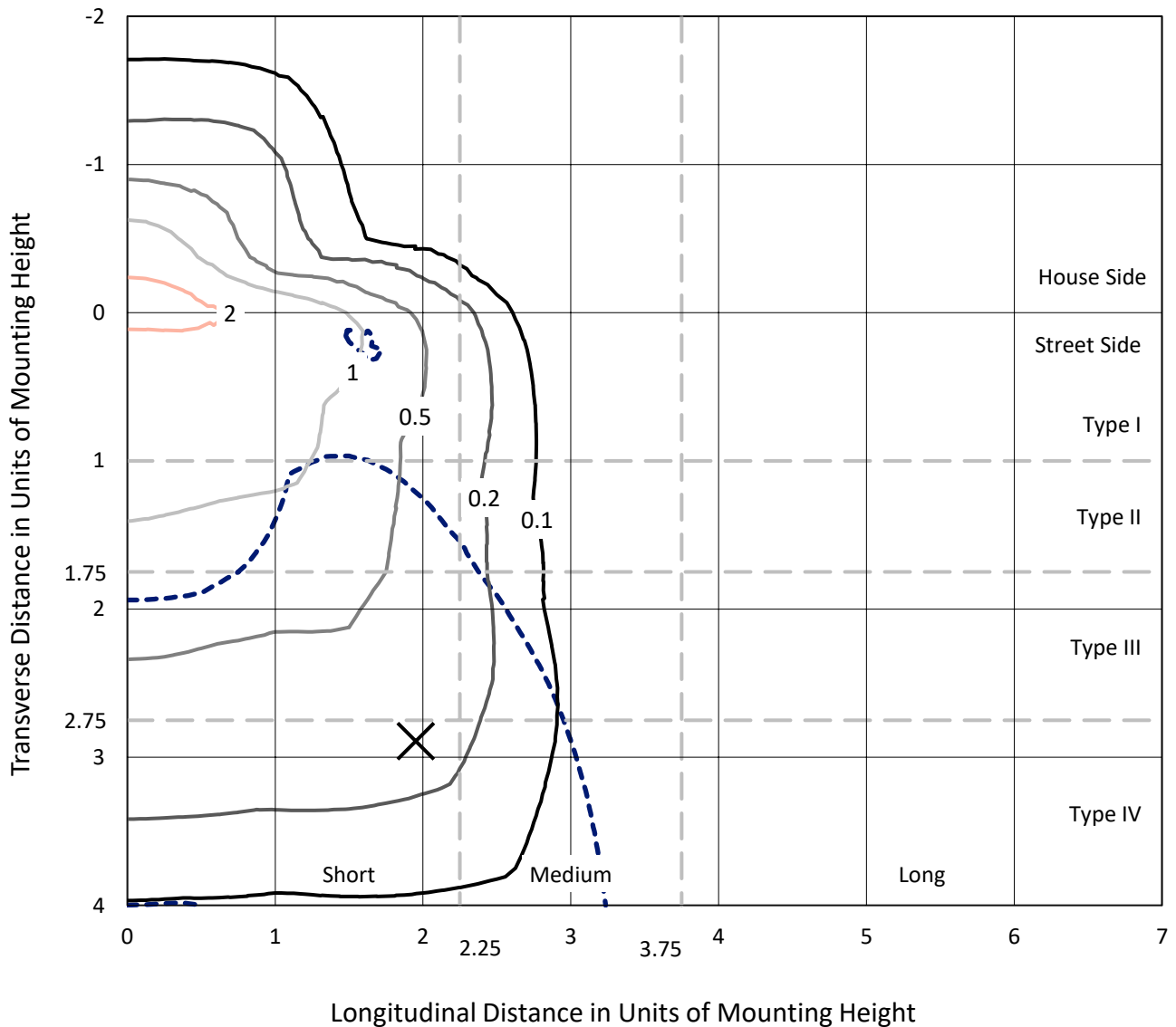
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

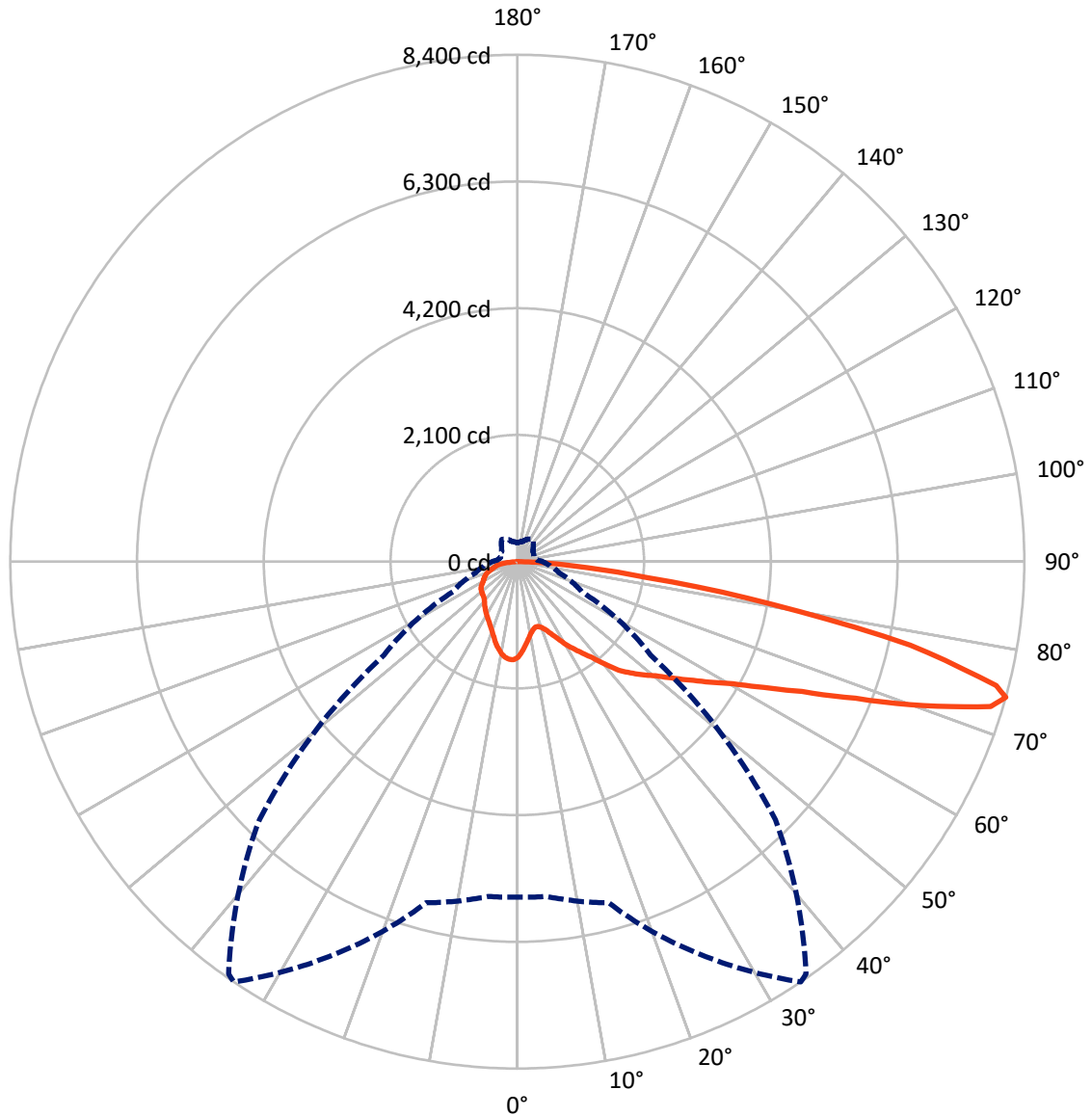
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2206.8	0.0	2206.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8163.2	0.0	8163.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	10370.0	0.0	10370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.4
10°-20°	394.2	3.8
20°-30°	649.9	6.3
30°-40°	973.5	9.4
40°-50°	1415.2	13.6
50°-60°	1976.6	19.1
60°-70°	2474.6	23.9
70°-80°	2046.3	19.7
80°-90°	295.7	2.9
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°	10370.0	100.0
0°-180°	10370.0	100.0

Coefficient of Utilization



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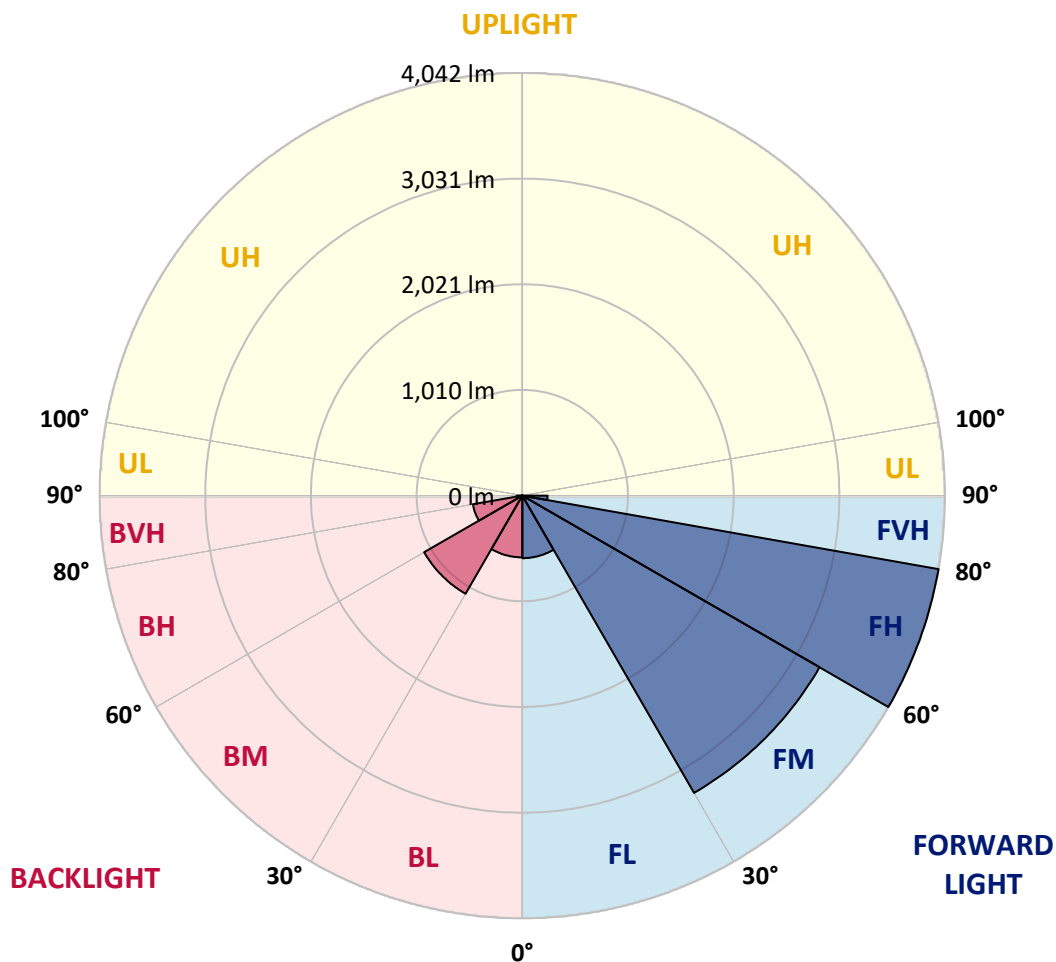
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	597.8	5.8			
FM	(30°-60°)	3281.5	31.6			
FH	(60°-80°)	4041.7	39.0			G2/5000
FVH	(80°-90°)	242.2	2.3			G3/500
BL	(0°-30°)	590.3	5.7	B2/1000		
BM	(30°-60°)	1083.8	10.5	B2/2500		
BH	(60°-80°)	479.3	4.6	B1/500		G1/500
BVH	(80°-90°)	53.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3
2.5°	1463.2	1470.7	1474.7	1489.1	1492.5	1497.1	1509.2	1525.3	1546.0	1564.3	1580.4
5°	1341.4	1352.9	1359.8	1372.5	1397.2	1399.5	1431.6	1468.4	1510.3	1549.4	1581.6
7.5°	1226.0	1238.6	1244.3	1267.3	1300.1	1305.2	1352.3	1410.4	1480.5	1539.6	1589.0
10°	1139.2	1145.5	1158.2	1175.4	1214.5	1217.9	1279.4	1356.9	1447.7	1535.0	1601.7
12.5°	1092.1	1095.6	1098.4	1116.8	1155.3	1160.5	1224.8	1312.7	1421.9	1538.5	1622.4
15°	1099.0	1100.1	1087.5	1091.0	1122.0	1129.4	1193.2	1283.4	1405.8	1547.1	1653.4
17.5°	1157.0	1153.0	1122.0	1105.9	1127.7	1131.2	1186.9	1271.9	1398.3	1563.2	1685.6
20°	1248.4	1242.6	1189.2	1153.6	1166.2	1169.1	1207.6	1280.5	1405.8	1589.6	1735.5
22.5°	1362.1	1359.8	1278.8	1235.7	1235.2	1235.2	1255.3	1311.6	1428.2	1625.8	1787.8
25°	1521.2	1509.2	1403.5	1347.8	1332.2	1331.1	1328.8	1362.7	1456.9	1664.3	1849.9
27.5°	1684.4	1663.7	1569.5	1483.9	1450.6	1446.6	1431.6	1435.1	1493.7	1708.0	1920.5
30°	1830.9	1817.7	1729.2	1634.4	1594.8	1585.6	1544.2	1525.3	1555.1	1786.7	2033.1
32.5°	1942.9	1934.9	1865.9	1779.8	1721.2	1719.4	1659.1	1643.6	1651.1	1882.0	2161.8
35°	2033.7	2036.6	2001.5	1926.8	1859.6	1849.9	1809.6	1790.1	1768.3	2019.9	2323.8
37.5°	2157.8	2164.1	2161.8	2097.5	2015.3	2017.6	2008.4	1976.2	1918.2	2173.9	2503.6
40°	2294.5	2299.1	2298.5	2273.8	2230.7	2233.0	2229.6	2192.8	2106.1	2369.8	2703.5
42.5°	2483.5	2461.7	2404.8	2429.5	2454.8	2465.7	2489.3	2454.2	2335.3	2578.9	2891.4
45°	2694.9	2653.6	2524.9	2536.4	2630.0	2650.7	2780.5	2732.3	2584.1	2819.0	3112.6
47.5°	2828.2	2787.4	2678.8	2676.5	2800.6	2820.7	3050.5	3032.7	2810.4	3078.1	3382.6
50°	2947.1	2941.4	2819.0	2848.3	2969.5	2999.4	3344.7	3328.0	3036.2	3383.7	3676.7
52.5°	3123.5	3077.0	2979.3	3039.6	3199.9	3239.0	3636.5	3587.7	3243.6	3653.8	3962.3
55°	3202.8	3191.9	3186.1	3238.4	3458.4	3486.6	3920.3	3808.3	3420.5	3882.4	4179.4
57.5°	3414.8	3394.7	3451.5	3487.2	3762.9	3806.0	4216.8	4038.7	3575.6	4063.9	4285.1
60°	3689.4	3678.5	3730.7	3795.1	4103.0	4168.5	4554.6	4235.1	3700.3	4155.3	4227.1
62.5°	4099.6	4098.4	4088.6	4226.5	4585.0	4645.3	4942.3	4426.4	3719.8	4086.9	3927.2
65°	4687.8	4667.2	4582.1	4732.6	5184.8	5255.4	5346.2	4533.3	3602.1	3735.9	3306.8
67.5°	5303.1	5302.0	5233.0	5428.4	6045.9	6118.9	5851.2	4509.7	3275.2	3026.4	2348.5
70°	5813.3	5788.6	5876.5	6396.9	7146.1	7230.5	6293.0	4232.3	2608.8	1998.7	1395.4
72.5°	5935.6	5936.8	6119.5	7143.8	8202.6	8215.8	6452.1	3430.3	1745.9	1102.4	698.0
74°	5558.8	5568.5	5851.8	7181.1	8399.6	8339.9	6045.4	2696.1	1180.6	719.8	503.3
75°	5073.9	5012.4	5422.0	6932.4	8195.1	8130.8	5569.1	2163.5	900.8	575.1	440.6
77.5°	2712.7	2775.4	3407.3	5173.3	6657.8	6583.7	3776.1	1037.5	486.6	400.4	317.1
80°	965.7	1065.1	1497.1	2707.0	4268.5	4291.4	1802.2	475.7	342.4	295.3	224.1
82.5°	394.1	405.0	642.9	1201.3	2167.6	2188.2	735.9	282.6	244.7	203.4	133.9
85°	154.0	158.6	284.4	540.0	924.9	985.3	254.5	149.4	150.5	116.6	68.4
87.5°	51.7	58.6	116.6	179.8	314.2	307.9	74.1	44.2	54.0	50.6	21.3
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°	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3	1583.3
2.5°	1588.5	1599.4	1606.8	1614.9	1622.4	1624.7	1622.9	1628.1	1628.7	1629.3	1629.8
5°	1597.7	1612.6	1627.0	1635.0	1638.4	1635.6	1625.8	1620.6	1616.0	1612.6	1613.7
7.5°	1610.3	1631.6	1644.8	1648.2	1639.0	1625.8	1601.7	1582.7	1570.7	1562.6	1562.0
10°	1629.8	1650.5	1661.4	1651.7	1626.4	1594.2	1556.3	1520.7	1493.7	1485.6	1485.1
12.5°	1654.5	1678.1	1677.5	1648.8	1604.6	1547.1	1485.6	1444.3	1407.5	1389.1	1396.6
15°	1686.7	1704.5	1687.9	1636.1	1566.1	1487.4	1411.5	1355.2	1313.9	1294.3	1295.5
17.5°	1724.0	1739.6	1695.3	1613.7	1512.1	1410.9	1323.1	1269.6	1236.9	1222.5	1221.4
20°	1770.6	1775.2	1695.3	1574.7	1442.5	1321.9	1238.0	1200.7	1182.3	1174.8	1177.1
22.5°	1820.6	1811.4	1686.1	1519.5	1351.2	1228.8	1172.5	1155.9	1146.7	1145.5	1146.7
25°	1876.9	1851.0	1667.2	1444.8	1255.8	1148.4	1115.7	1118.5	1120.3	1120.3	1124.3
27.5°	1945.8	1894.1	1635.6	1350.6	1144.4	1073.7	1064.5	1084.6	1093.8	1095.6	1098.4
30°	2036.6	1941.2	1583.3	1232.9	1049.6	1006.5	1022.6	1049.6	1059.9	1066.3	1065.1
32.5°	2144.6	1992.9	1512.6	1115.1	973.2	959.4	978.9	1006.5	1018.0	1021.4	1016.8
35°	2271.5	2051.5	1419.6	1004.8	906.5	914.6	937.6	946.2	956.5	956.5	958.8
37.5°	2408.3	2098.6	1305.8	903.7	854.8	884.1	900.8	892.8	888.2	882.4	885.3
40°	2547.3	2133.7	1158.2	803.7	803.1	852.5	857.1	834.2	815.8	810.0	807.2
42.5°	2668.5	2155.5	1024.9	726.2	754.3	821.5	825.0	788.2	758.9	741.7	735.9
45°	2811.6	2180.8	894.5	661.8	708.9	796.8	805.4	756.0	712.9	676.7	667.6
47.5°	3007.5	2238.2	791.6	611.8	676.2	781.3	793.4	729.6	672.7	625.6	618.2
50°	3228.6	2316.9	711.8	577.9	650.9	767.5	782.5	702.6	635.4	583.1	577.4
52.5°	3431.4	2359.4	642.9	547.5	626.2	742.2	768.1	683.1	598.6	540.6	535.4
55°	3542.3	2290.5	575.1	517.6	592.3	709.5	748.0	656.1	563.0	518.2	510.7
57.5°	3557.2	2148.0	513.6	485.4	556.7	669.3	710.6	623.3	540.0	502.7	496.4
60°	3441.8	1935.5	465.9	459.0	520.5	623.9	668.7	594.6	516.5	485.4	479.1
62.5°	3154.5	1704.5	432.6	434.9	483.7	576.2	637.7	567.0	494.1	466.5	460.7
65°	2660.5	1406.9	400.4	410.2	451.0	538.9	609.5	544.0	471.7	452.1	447.0
67.5°	1848.1	1015.7	374.0	384.3	420.0	501.0	576.8	519.3	446.4	436.0	428.0
70°	1023.2	625.0	343.0	355.0	387.8	458.4	540.0	482.0	409.6	405.0	393.5
72.5°	537.7	398.1	307.9	321.1	344.1	403.9	483.7	441.2	373.4	353.9	338.9
74°	420.0	326.3	284.4	298.2	313.7	371.7	450.4	411.9	347.6	324.6	313.1
75°	366.0	290.7	264.3	282.1	295.9	349.9	424.5	391.2	333.2	311.4	301.0
77.5°	258.5	217.7	216.0	237.3	244.7	306.8	382.6	356.2	297.0	274.0	264.3
80°	181.5	163.2	171.2	184.4	194.8	271.2	355.0	307.9	243.6	216.6	213.1
82.5°	118.3	106.9	122.4	134.4	137.9	199.9	286.7	233.8	177.5	144.2	133.9
85°	54.6	53.4	70.1	68.4	67.8	97.7	170.0	136.7	102.3	76.4	71.8
87.5°	13.8	13.2	17.2	14.4	17.2	14.9	15.5	4.0	0.6	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)