

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: P452217

Luminaire Tested: **GALN-SA3A-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452217  
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-SA3A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA 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: 10014 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

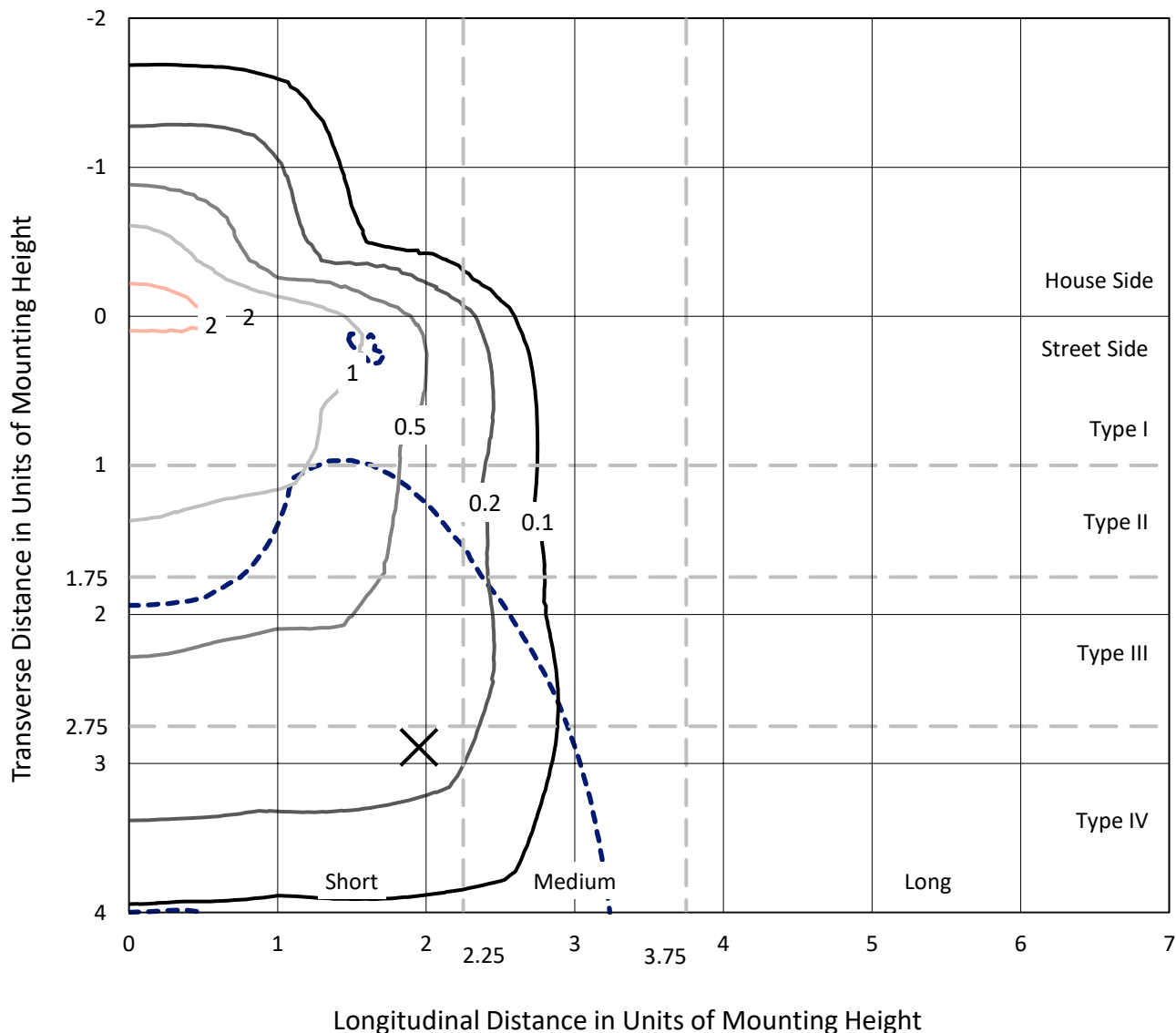
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

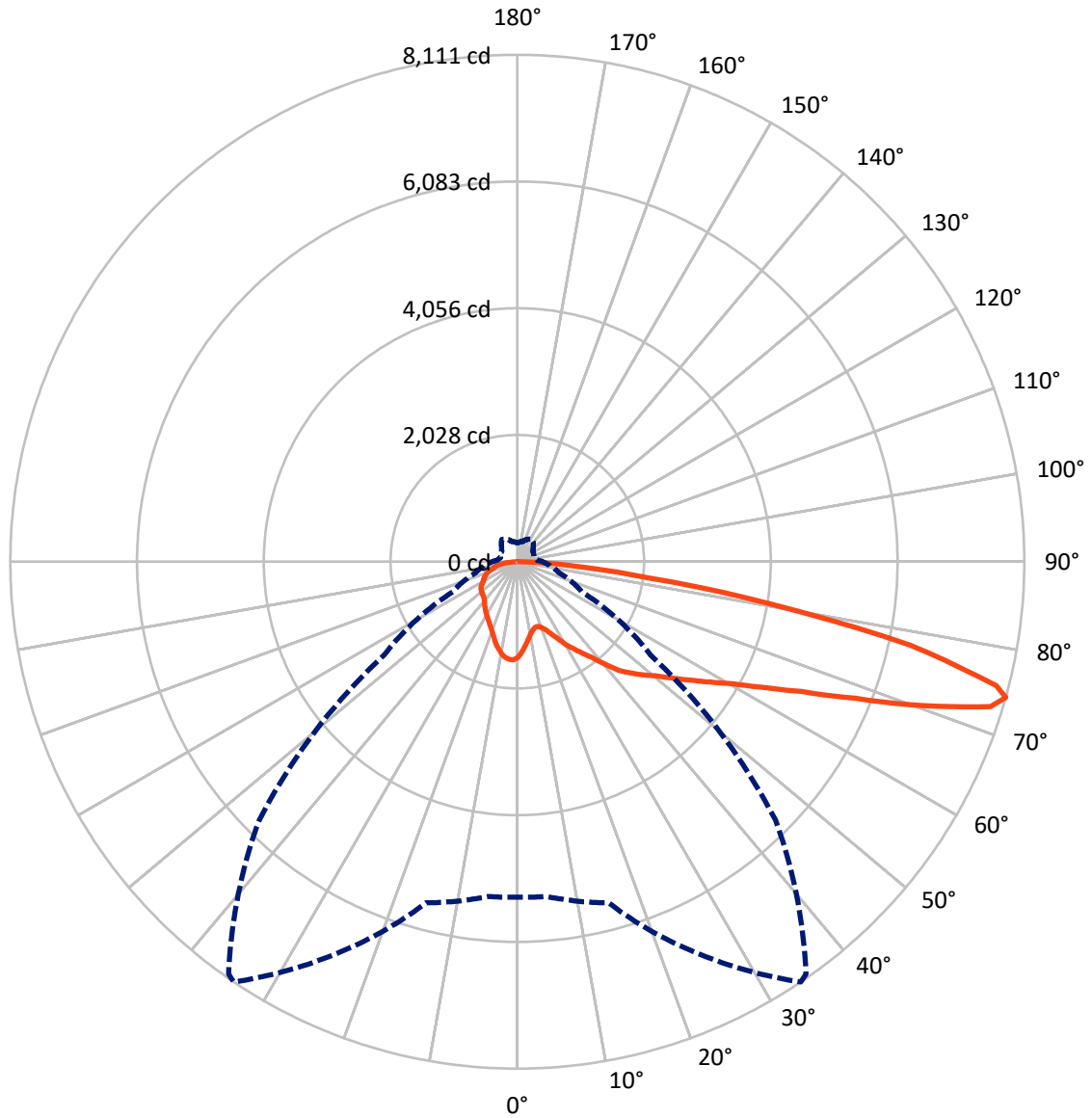
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
<b>House Side</b>	Lumens	2131.1	0.0	2131.1
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	7882.9	0.0	7882.9
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	10014.0	0.0	10014.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.1	1.4
10°-20°	380.6	3.8
20°-30°	627.6	6.3
30°-40°	940.1	9.4
40°-50°	1366.6	13.6
50°-60°	1908.8	19.1
60°-70°	2389.7	23.9
70°-80°	1976.1	19.7
80°-90°	285.5	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°	10014.0	100.0
0°-180°	10014.0	100.0

**Coefficient of Utilization**



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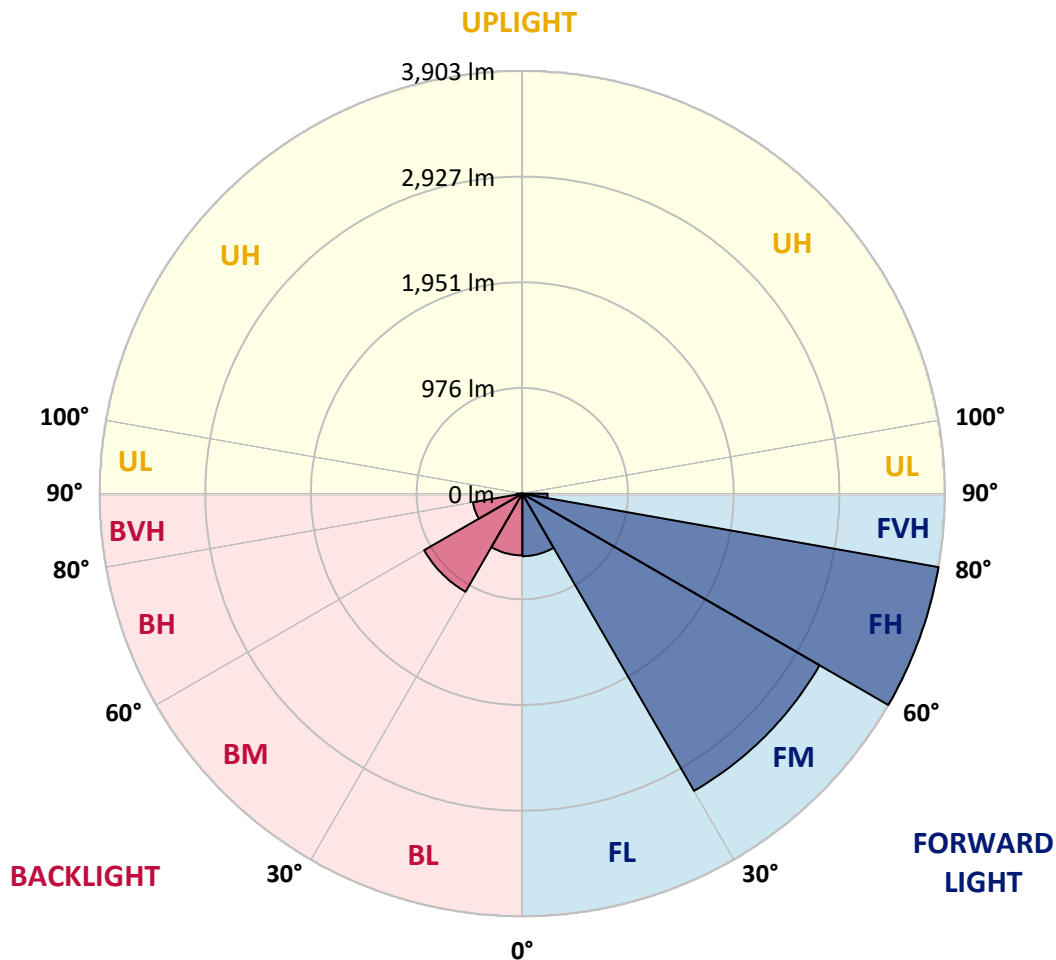
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.3	5.8			
FM (30°-60°)	3168.8	31.6			
FH (60°-80°)	3902.9	39.0			G2/5000
FVH (80°-90°)	233.9	2.3			G3/500
BL (0°-30°)	570.0	5.7	B2/1000		
BM (30°-60°)	1046.6	10.5	B2/2500		
BH (60°-80°)	462.9	4.6	B1/500		G1/500
BVH (80°-90°)	51.6	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°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1413.0	1420.2	1424.1	1438.0	1441.3	1445.7	1457.4	1472.9	1492.9	1510.6	1526.2
5°	1295.4	1306.5	1313.1	1325.3	1349.2	1351.4	1382.5	1418.0	1458.5	1496.2	1527.3
7.5°	1183.9	1196.1	1201.6	1223.8	1255.4	1260.4	1305.9	1362.0	1429.6	1486.8	1534.5
10°	1100.1	1106.2	1118.4	1135.1	1172.8	1176.1	1235.5	1310.4	1398.0	1482.3	1546.7
12.5°	1054.6	1057.9	1060.7	1078.5	1115.6	1120.6	1182.8	1267.6	1373.1	1485.7	1566.7
15°	1061.3	1062.4	1050.2	1053.5	1083.5	1090.7	1152.3	1239.4	1357.5	1494.0	1596.6
17.5°	1117.3	1113.4	1083.5	1067.9	1089.0	1092.3	1146.2	1228.3	1350.3	1509.5	1627.7
20°	1205.5	1200.0	1148.4	1114.0	1126.2	1129.0	1166.1	1236.6	1357.5	1535.0	1676.0
22.5°	1315.4	1313.1	1234.9	1193.3	1192.8	1192.8	1212.2	1266.5	1379.2	1570.0	1726.4
25°	1469.0	1457.4	1355.3	1301.5	1286.5	1285.4	1283.2	1315.9	1406.9	1607.2	1786.4
27.5°	1626.6	1606.6	1515.6	1433.0	1400.8	1396.9	1382.5	1385.8	1442.4	1649.3	1854.6
30°	1768.0	1755.3	1669.9	1578.3	1540.0	1531.2	1491.2	1472.9	1501.8	1725.3	1963.3
32.5°	1876.2	1868.5	1801.9	1718.7	1662.1	1660.4	1602.2	1587.2	1594.4	1817.4	2087.6
35°	1963.9	1966.7	1932.8	1860.7	1795.8	1786.4	1747.5	1728.7	1707.6	1950.6	2244.0
37.5°	2083.7	2089.8	2087.6	2025.5	1946.1	1948.3	1939.5	1908.4	1852.4	2099.2	2417.7
40°	2215.7	2220.2	2219.6	2195.8	2154.2	2156.4	2153.1	2117.5	2033.8	2288.4	2610.7
42.5°	2398.3	2377.2	2322.3	2346.1	2370.5	2381.1	2403.8	2370.0	2255.1	2490.4	2792.1
45°	2602.4	2562.5	2438.2	2449.3	2539.7	2559.7	2685.1	2638.5	2495.3	2722.2	3005.7
47.5°	2731.1	2691.7	2586.9	2584.7	2704.5	2723.9	2945.8	2928.6	2713.9	2972.4	3266.5
50°	2846.0	2840.4	2722.2	2750.5	2867.6	2896.4	3229.9	3213.8	2931.9	3267.6	3550.5
52.5°	3016.3	2971.3	2877.0	2935.3	3090.1	3127.8	3511.7	3464.5	3132.2	3528.3	3826.2
55°	3092.8	3082.3	3076.7	3127.2	3339.7	3366.9	3785.7	3677.6	3303.1	3749.1	4035.9
57.5°	3297.5	3278.1	3333.0	3367.4	3633.7	3675.3	4072.0	3900.0	3452.9	3924.4	4138.0
60°	3562.7	3552.2	3602.7	3664.8	3962.2	4025.4	4398.2	4089.7	3573.3	4012.6	4082.0
62.5°	3958.8	3957.7	3948.3	4081.4	4427.6	4485.9	4772.7	4274.5	3592.1	3946.6	3792.4
65°	4526.9	4506.9	4424.8	4570.2	5006.8	5075.0	5162.7	4377.7	3478.4	3607.7	3193.2
67.5°	5121.1	5120.0	5053.4	5242.0	5838.4	5908.8	5650.3	4354.9	3162.7	2922.5	2267.9
70°	5613.7	5589.8	5674.7	6177.3	6900.8	6982.3	6076.9	4087.0	2519.2	1930.0	1347.5
72.5°	5731.9	5733.0	5909.4	6898.5	7921.0	7933.7	6230.6	3312.5	1685.9	1064.6	674.0
74°	5367.9	5377.4	5650.9	6934.6	8111.3	8053.6	5837.8	2603.5	1140.0	695.1	486.0
75°	4899.7	4840.3	5235.9	6694.4	7913.8	7851.6	5377.9	2089.3	869.9	555.3	425.5
77.5°	2619.6	2680.1	3290.3	4995.7	6429.2	6357.6	3646.5	1001.9	469.9	386.7	306.2
80°	932.6	1028.5	1445.7	2614.1	4121.9	4144.1	1740.3	459.3	330.6	285.2	216.4
82.5°	380.6	391.1	620.8	1160.0	2093.1	2113.1	710.7	272.9	236.3	196.4	129.3
85°	148.7	153.1	274.6	521.5	893.2	951.4	245.8	144.2	145.3	112.6	66.0
87.5°	49.9	56.6	112.6	173.6	303.5	297.4	71.6	42.7	52.1	48.8	20.5
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°	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1533.9	1544.5	1551.7	1559.5	1566.7	1568.9	1567.2	1572.2	1572.8	1573.3	1573.9
5°	1542.8	1557.2	1571.1	1578.9	1582.2	1579.4	1570.0	1565.0	1560.6	1557.2	1558.3
7.5°	1555.0	1575.5	1588.3	1591.6	1582.8	1570.0	1546.7	1528.4	1516.7	1509.0	1508.4
10°	1573.9	1593.8	1604.4	1595.0	1570.5	1539.5	1502.9	1468.5	1442.4	1434.6	1434.1
12.5°	1597.7	1620.5	1619.9	1592.2	1549.5	1494.0	1434.6	1394.7	1359.2	1341.4	1348.6
15°	1628.8	1646.0	1629.9	1580.0	1512.3	1436.3	1363.1	1308.7	1268.8	1249.9	1251.0
17.5°	1664.9	1679.8	1637.1	1558.3	1460.1	1362.5	1277.6	1226.0	1194.4	1180.5	1179.4
20°	1709.8	1714.2	1637.1	1520.6	1393.0	1276.5	1195.5	1159.5	1141.7	1134.5	1136.7
22.5°	1758.1	1749.2	1628.2	1467.4	1304.8	1186.6	1132.3	1116.2	1107.3	1106.2	1107.3
25°	1812.4	1787.5	1609.9	1395.2	1212.7	1109.0	1077.4	1080.1	1081.8	1081.8	1085.7
27.5°	1879.0	1829.1	1579.4	1304.3	1105.1	1036.9	1028.0	1047.4	1056.3	1057.9	1060.7
30°	1966.7	1874.6	1528.9	1190.5	1013.6	972.0	987.5	1013.6	1023.5	1029.6	1028.5
32.5°	2070.9	1924.5	1460.7	1076.8	939.8	926.5	945.3	972.0	983.0	986.4	981.9
35°	2193.6	1981.1	1370.8	970.3	875.4	883.2	905.4	913.7	923.7	923.7	925.9
37.5°	2325.6	2026.6	1261.0	872.6	825.5	853.8	869.9	862.1	857.7	852.1	854.9
40°	2459.8	2060.4	1118.4	776.1	775.6	823.3	827.7	805.5	787.8	782.2	779.4
42.5°	2576.9	2081.5	989.7	701.2	728.4	793.3	796.6	761.1	732.8	716.2	710.7
45°	2715.0	2105.9	863.8	639.1	684.6	769.5	777.8	730.1	688.5	653.5	644.6
47.5°	2904.2	2161.4	764.5	590.8	653.0	754.5	766.1	704.6	649.6	604.1	596.9
50°	3117.8	2237.4	687.4	558.1	628.6	741.2	755.6	678.5	613.6	563.1	557.5
52.5°	3313.6	2278.4	620.8	528.7	604.7	716.8	741.7	659.6	578.1	522.0	517.0
55°	3420.7	2211.9	555.3	499.8	572.0	685.1	722.3	633.5	543.7	500.4	493.2
57.5°	3435.1	2074.3	496.0	468.8	537.6	646.3	686.2	601.9	521.5	485.4	479.3
60°	3323.6	1869.0	449.9	443.3	502.6	602.5	645.7	574.2	498.7	468.8	462.7
62.5°	3046.2	1646.0	417.7	420.0	467.1	556.4	615.8	547.6	477.1	450.5	444.9
65°	2569.1	1358.6	386.7	396.1	435.5	520.4	588.6	525.4	455.5	436.6	431.6
67.5°	1784.7	980.8	361.2	371.1	405.5	483.8	557.0	501.5	431.1	421.1	413.3
70°	988.0	603.6	331.2	342.8	374.5	442.7	521.5	465.5	395.5	391.1	380.0
72.5°	519.3	384.5	297.4	310.1	332.3	390.0	467.1	426.1	360.6	341.7	327.3
74°	405.5	315.1	274.6	287.9	302.9	358.9	434.9	397.8	335.6	313.4	302.3
75°	353.4	280.7	255.2	272.4	285.7	337.9	410.0	377.8	321.8	300.7	290.7
77.5°	249.6	210.3	208.6	229.1	236.3	296.2	369.5	344.0	286.8	264.6	255.2
80°	175.3	157.6	165.3	178.1	188.1	261.9	342.8	297.4	235.2	209.1	205.8
82.5°	114.3	103.2	118.2	129.8	133.1	193.1	276.8	225.8	171.4	139.2	129.3
85°	52.7	51.6	67.7	66.0	65.5	94.3	164.2	132.0	98.7	73.8	69.3
87.5°	13.3	12.8	16.6	13.9	16.6	14.4	15.0	3.9	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)