

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: P451372

Luminaire Tested: **GALN-SA2B-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9490 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

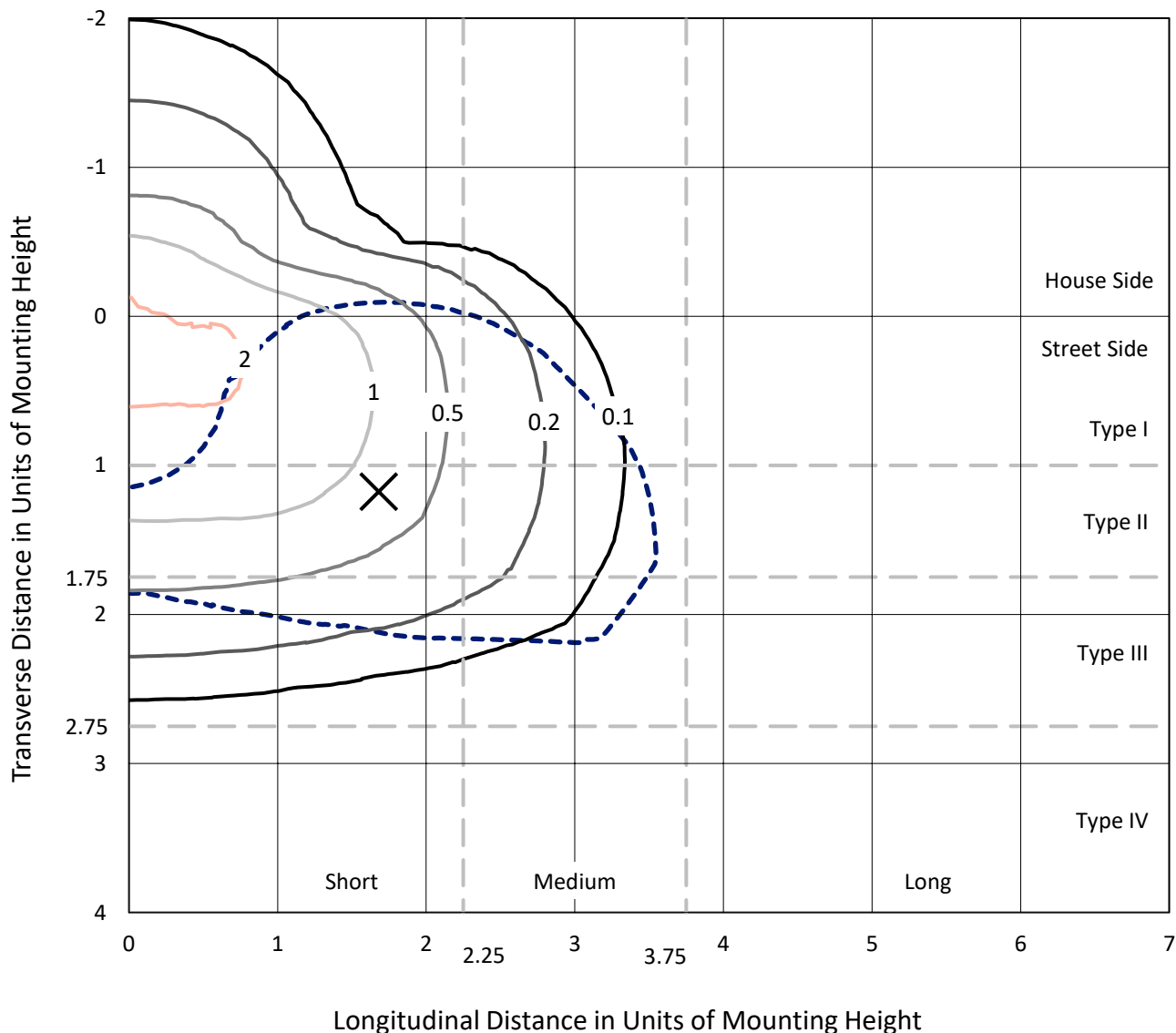
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

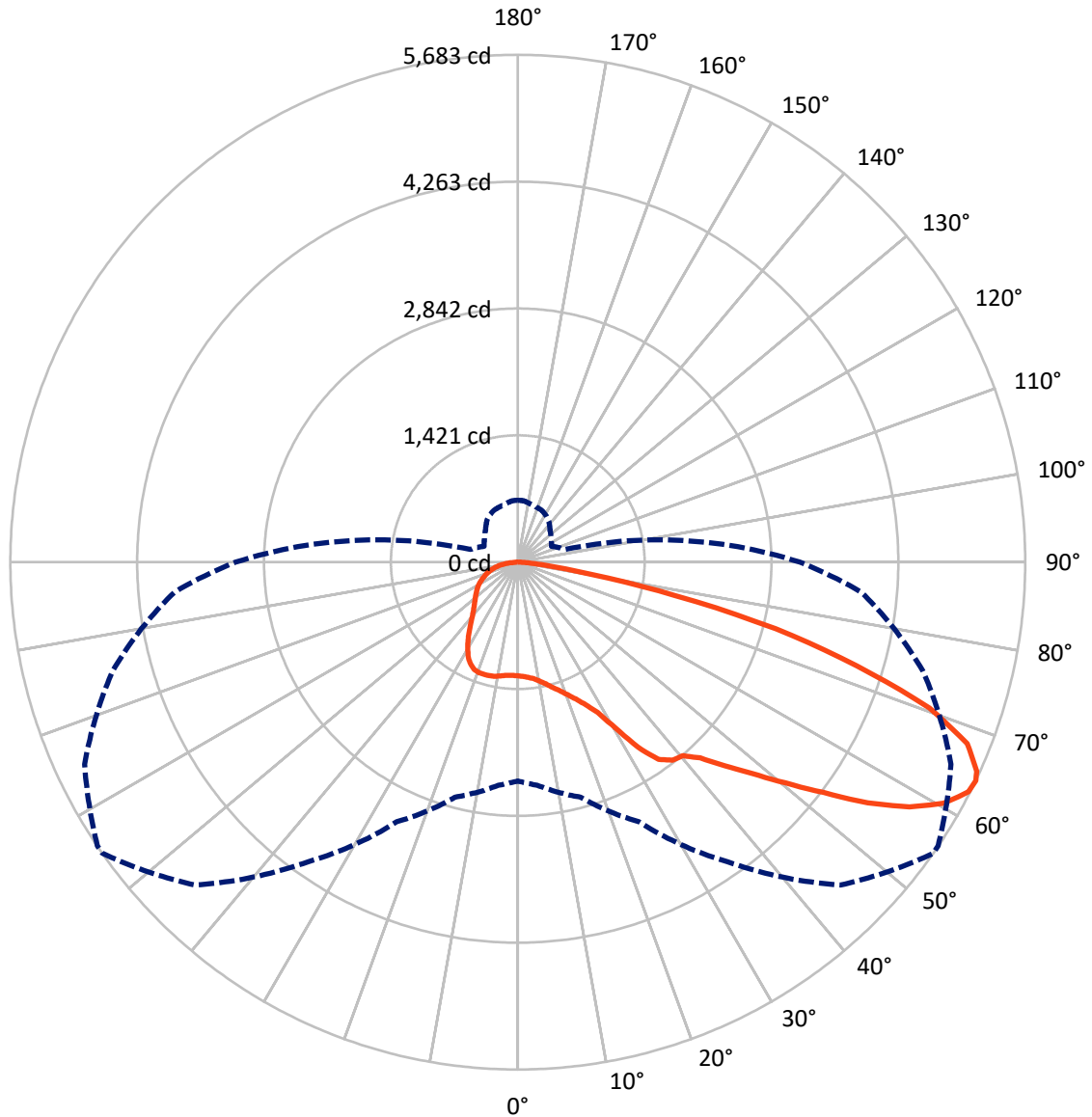
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2305.3	0.0	2305.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	7184.7	0.0	7184.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	9490.0	0.0	9490.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	1.3
10°-20°	390.8	4.1
20°-30°	695.7	7.3
30°-40°	1070.5	11.3
40°-50°	1517.5	16.0
50°-60°	2196.5	23.1
60°-70°	2273.1	24.0
70°-80°	1064.5	11.2
80°-90°	157.6	1.7
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°	9490.0	100.0
0°-180°	9490.0	100.0

**Coefficient of Utilization**



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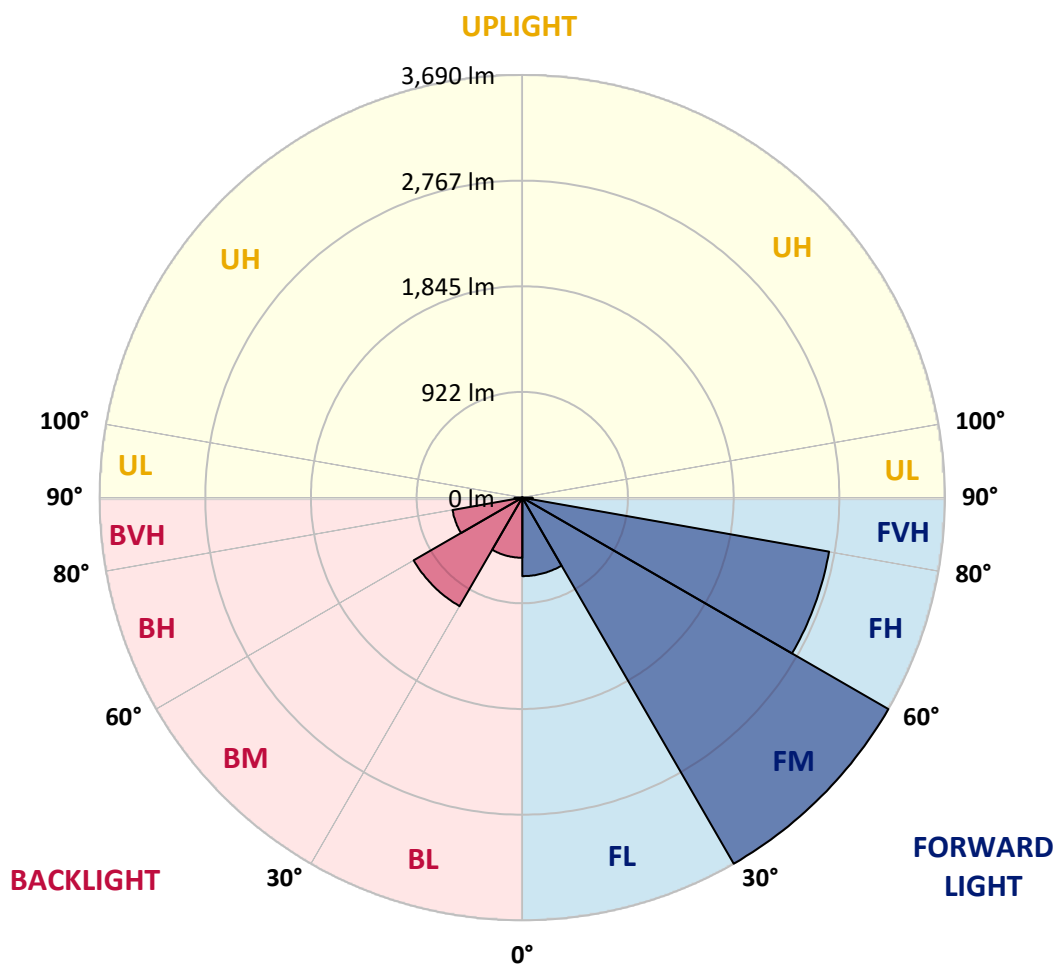
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.3	7.2			
FM	(30°-60°)	3690.0	38.9			
FH	(60°-80°)	2719.2	28.7			G2/5000
FVH	(80°-90°)	90.2	1.0			G1/100
BL	(0°-30°)	525.1	5.5	B2/1000		
BM	(30°-60°)	1094.4	11.5	B2/2500		
BH	(60°-80°)	618.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	67.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1287.6	1287.0	1288.6	1287.0	1288.1	1284.4	1282.8	1283.9	1282.3	1279.6	1274.9
5°	1303.4	1302.9	1303.4	1301.3	1302.4	1300.2	1296.5	1297.6	1295.0	1289.1	1282.3
7.5°	1330.4	1328.3	1328.3	1327.8	1325.6	1322.5	1319.8	1318.8	1316.1	1308.7	1298.1
10°	1365.3	1365.3	1365.8	1361.6	1364.3	1358.4	1355.8	1355.3	1346.3	1336.7	1321.9
12.5°	1411.3	1414.0	1412.4	1410.3	1409.2	1407.1	1398.1	1400.2	1390.2	1373.8	1355.8
15°	1468.5	1472.7	1470.1	1469.0	1466.4	1458.4	1454.7	1453.1	1439.9	1416.1	1392.3
17.5°	1544.1	1538.8	1536.7	1534.1	1523.0	1517.1	1510.8	1509.7	1498.1	1470.1	1433.0
20°	1610.2	1617.6	1613.4	1610.8	1599.7	1588.5	1583.8	1582.2	1572.1	1541.5	1482.2
22.5°	1689.1	1690.6	1692.2	1685.9	1680.6	1672.1	1663.7	1661.0	1657.3	1625.6	1553.1
25°	1773.2	1779.5	1774.2	1767.9	1761.5	1761.0	1768.9	1767.9	1766.3	1735.6	1647.3
27.5°	1910.2	1916.0	1917.6	1910.7	1886.4	1888.5	1906.5	1912.3	1936.6	1885.8	1768.4
30°	1987.4	1993.2	2006.4	2032.4	2071.0	2104.8	2148.2	2161.4	2184.7	2089.0	1912.3
32.5°	2035.0	2037.1	2060.9	2109.1	2224.9	2351.3	2469.3	2474.1	2488.9	2354.5	2044.0
35°	2110.1	2111.7	2130.8	2183.7	2319.6	2530.1	2712.6	2718.5	2706.3	2437.0	2105.4
37.5°	2202.7	2206.9	2219.1	2263.0	2425.4	2679.8	2813.7	2809.4	2701.5	2502.6	2213.8
40°	2337.6	2337.6	2323.3	2382.6	2537.0	2765.5	2849.1	2841.7	2813.2	2692.5	2378.9
42.5°	2456.6	2454.5	2488.4	2528.6	2676.7	2897.8	2997.8	3009.9	3057.0	2931.1	2566.6
45°	2611.6	2621.1	2640.2	2713.2	2914.2	3123.7	3252.7	3264.4	3331.0	3212.0	2786.2
47.5°	2768.2	2771.4	2831.1	2928.5	3208.3	3430.0	3535.7	3554.8	3615.6	3540.5	3022.6
50°	2879.3	2909.4	3005.2	3158.6	3511.4	3803.4	3885.9	3908.7	4016.1	3898.1	3298.2
52.5°	2996.7	3026.3	3143.2	3377.1	3859.5	4185.3	4286.9	4302.3	4413.9	4259.9	3580.2
55°	3097.2	3124.7	3257.5	3570.7	4136.7	4575.2	4759.3	4741.3	4794.7	4538.7	3797.6
57.5°	3113.6	3135.8	3303.0	3694.4	4345.1	4909.5	5173.5	5184.1	5122.2	4747.1	3976.9
60°	2986.7	3032.2	3224.2	3681.2	4438.7	5142.3	5482.4	5489.8	5314.2	4854.0	4048.3
62.5°	2761.8	2757.1	2989.3	3468.6	4307.5	5195.2	5664.4	5656.5	5389.3	4802.7	3979.0
64°	2451.3	2508.5	2725.3	3207.2	4095.9	5113.7	5683.4	5679.2	5353.3	4695.8	3861.1
65°	2261.9	2258.8	2473.0	2993.5	3885.4	4991.0	5649.6	5643.8	5278.2	4600.1	3769.6
67.5°	1633.0	1640.4	1852.0	2310.1	3158.6	4511.2	5429.0	5407.3	4982.0	4282.7	3421.5
70°	989.2	993.4	1159.5	1532.5	2267.2	3646.8	4893.7	4894.7	4528.7	3808.7	2912.1
72.5°	521.1	532.2	598.8	870.2	1377.0	2558.7	3970.0	4064.2	3888.1	3250.6	2300.6
75°	289.9	291.5	338.6	429.0	702.5	1432.0	2984.0	3011.0	3078.2	2616.4	1701.2
77.5°	221.1	224.3	239.1	277.2	382.5	663.9	1806.0	1941.4	2169.4	1844.6	970.7
80°	179.3	182.5	195.2	217.9	254.4	314.7	839.0	912.0	1161.1	818.9	378.8
82.5°	139.7	137.5	153.9	168.7	185.1	186.2	344.4	380.9	472.9	352.3	164.0
85°	103.7	103.7	116.9	113.7	119.6	109.0	151.8	167.7	189.4	149.7	76.2
87.5°	41.3	45.5	76.7	68.8	53.4	42.8	56.1	59.2	65.6	58.7	31.7
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°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1275.4	1277.0	1273.3	1270.6	1269.6	1268.0	1266.4	1266.9	1269.0	1271.2	1270.6
5°	1281.7	1282.3	1275.9	1272.7	1270.6	1268.5	1268.5	1270.1	1274.3	1277.5	1277.5
7.5°	1297.6	1297.6	1288.6	1282.8	1279.6	1275.9	1274.9	1275.4	1278.6	1282.8	1283.3
10°	1322.5	1320.4	1308.7	1299.7	1293.9	1284.9	1277.0	1272.7	1274.3	1277.0	1277.0
12.5°	1352.6	1346.8	1332.0	1319.8	1305.5	1288.6	1272.2	1263.7	1263.2	1265.9	1264.8
15°	1384.9	1378.5	1357.9	1335.7	1310.8	1286.0	1266.4	1254.2	1244.7	1242.1	1247.9
17.5°	1422.4	1409.2	1380.7	1350.0	1312.9	1280.7	1250.0	1225.1	1208.2	1203.4	1205.0
20°	1467.9	1450.5	1411.9	1363.7	1311.4	1261.6	1214.0	1180.7	1153.2	1144.7	1145.8
22.5°	1530.9	1500.7	1444.1	1370.6	1298.1	1225.7	1159.5	1116.2	1082.8	1069.6	1077.5
25°	1602.3	1569.5	1474.8	1369.0	1263.7	1168.0	1095.0	1038.4	1008.2	988.7	992.9
27.5°	1700.7	1642.5	1507.6	1354.7	1214.6	1097.6	1013.0	959.6	932.1	922.0	926.8
30°	1826.6	1737.2	1543.1	1316.1	1136.8	1008.8	930.5	895.6	879.2	866.5	870.7
32.5°	1917.6	1803.8	1551.0	1251.1	1052.7	927.8	874.4	848.5	830.5	818.3	821.0
35°	1982.6	1860.4	1547.3	1171.2	964.9	861.2	830.0	808.8	779.7	753.3	748.5
37.5°	2069.9	1931.3	1520.3	1083.9	878.1	816.2	794.0	754.9	713.1	677.6	676.0
40°	2203.8	2014.4	1462.6	981.3	804.1	782.9	755.9	705.1	660.2	631.6	629.5
42.5°	2341.8	2091.1	1384.4	873.4	743.2	748.0	715.2	664.9	637.4	618.9	616.8
45°	2510.6	2174.1	1299.7	779.7	698.3	715.2	679.7	650.7	634.3	622.1	618.9
47.5°	2693.1	2259.3	1204.5	695.6	660.2	685.0	664.9	651.7	642.7	634.3	630.6
50°	2889.9	2354.5	1115.1	627.9	625.8	653.8	663.3	658.6	653.3	650.7	647.5
52.5°	3105.7	2451.9	1040.0	580.3	595.6	631.6	663.9	667.6	667.6	666.0	663.9
55°	3251.7	2519.6	963.8	541.7	565.0	613.6	662.8	677.1	682.4	680.3	678.2
57.5°	3359.6	2556.6	868.1	508.4	539.0	596.2	657.0	678.2	683.5	686.1	685.0
60°	3381.8	2522.2	742.7	473.4	511.0	570.8	635.8	662.3	669.2	685.6	687.2
62.5°	3281.8	2416.4	617.9	439.1	476.6	532.2	607.3	644.3	658.1	683.5	686.1
64°	3159.1	2297.9	548.6	417.4	454.4	510.5	593.0	639.5	657.5	691.4	693.5
65°	3069.2	2211.7	505.2	403.6	440.1	496.2	585.1	641.1	662.3	703.6	706.7
67.5°	2738.0	1914.9	417.9	371.3	406.3	471.9	586.6	654.4	661.2	708.3	707.8
70°	2265.7	1524.5	350.2	341.7	373.5	452.3	580.3	633.2	633.7	664.9	657.5
72.5°	1696.5	1126.7	303.6	311.0	337.0	405.7	548.0	604.6	595.6	599.9	592.5
75°	1165.4	745.3	261.3	278.2	298.9	358.7	502.5	549.1	534.8	529.5	524.2
77.5°	622.1	412.1	217.4	246.0	259.7	310.0	438.5	483.5	468.7	448.1	441.2
80°	251.8	194.1	175.1	203.7	211.6	249.7	365.0	393.0	381.9	346.0	334.3
82.5°	126.4	116.4	137.5	160.3	160.8	178.3	271.4	297.8	273.0	229.1	219.0
85°	66.1	68.2	94.7	112.7	99.4	96.3	162.9	180.4	165.6	143.9	129.6
87.5°	23.8	27.5	49.7	49.2	34.9	18.5	36.0	17.5	9.5	5.8	7.4
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)