

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: P648293

Luminaire Tested: **GALN-SA2B-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648293  
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-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8884.7 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

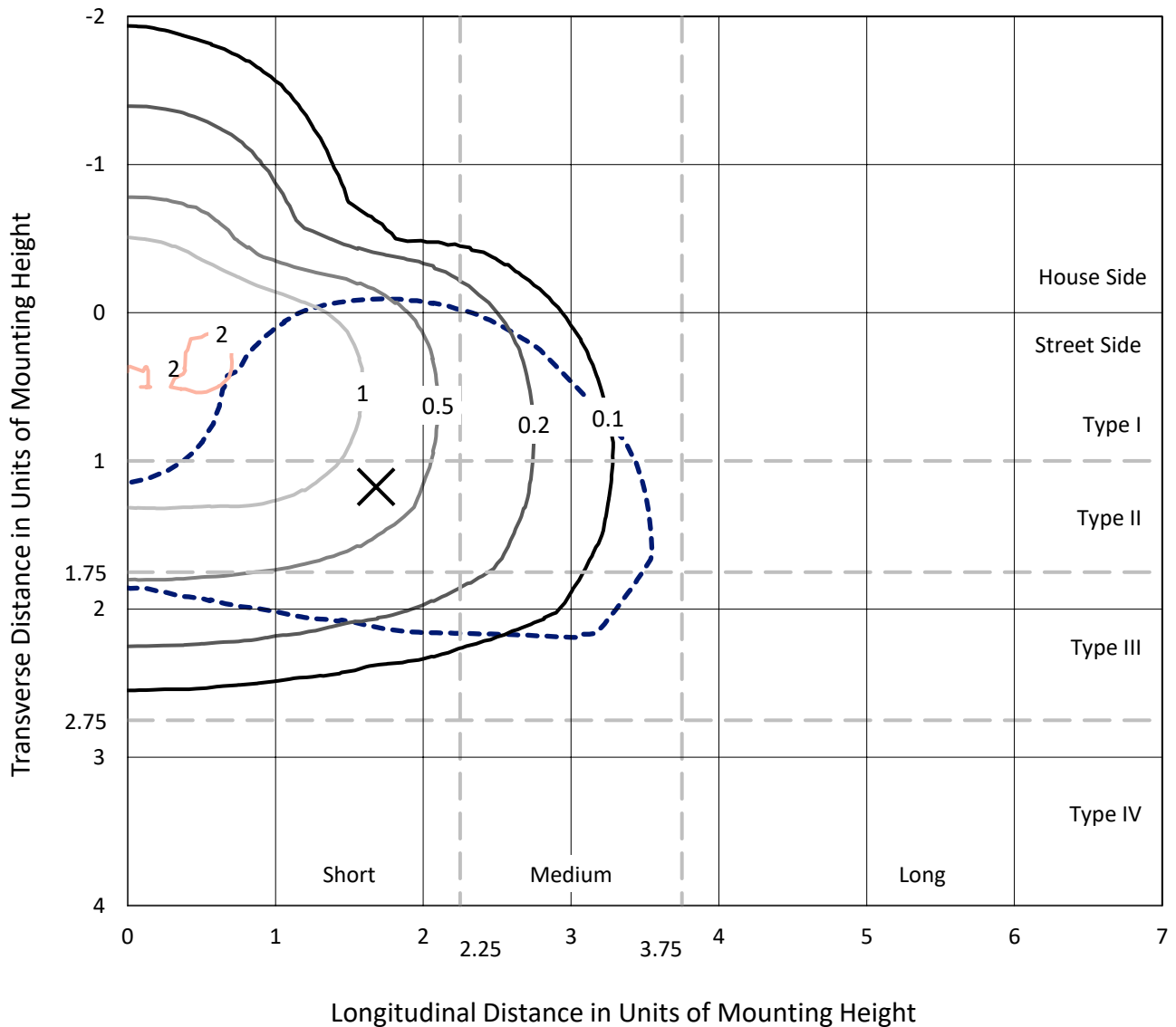
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

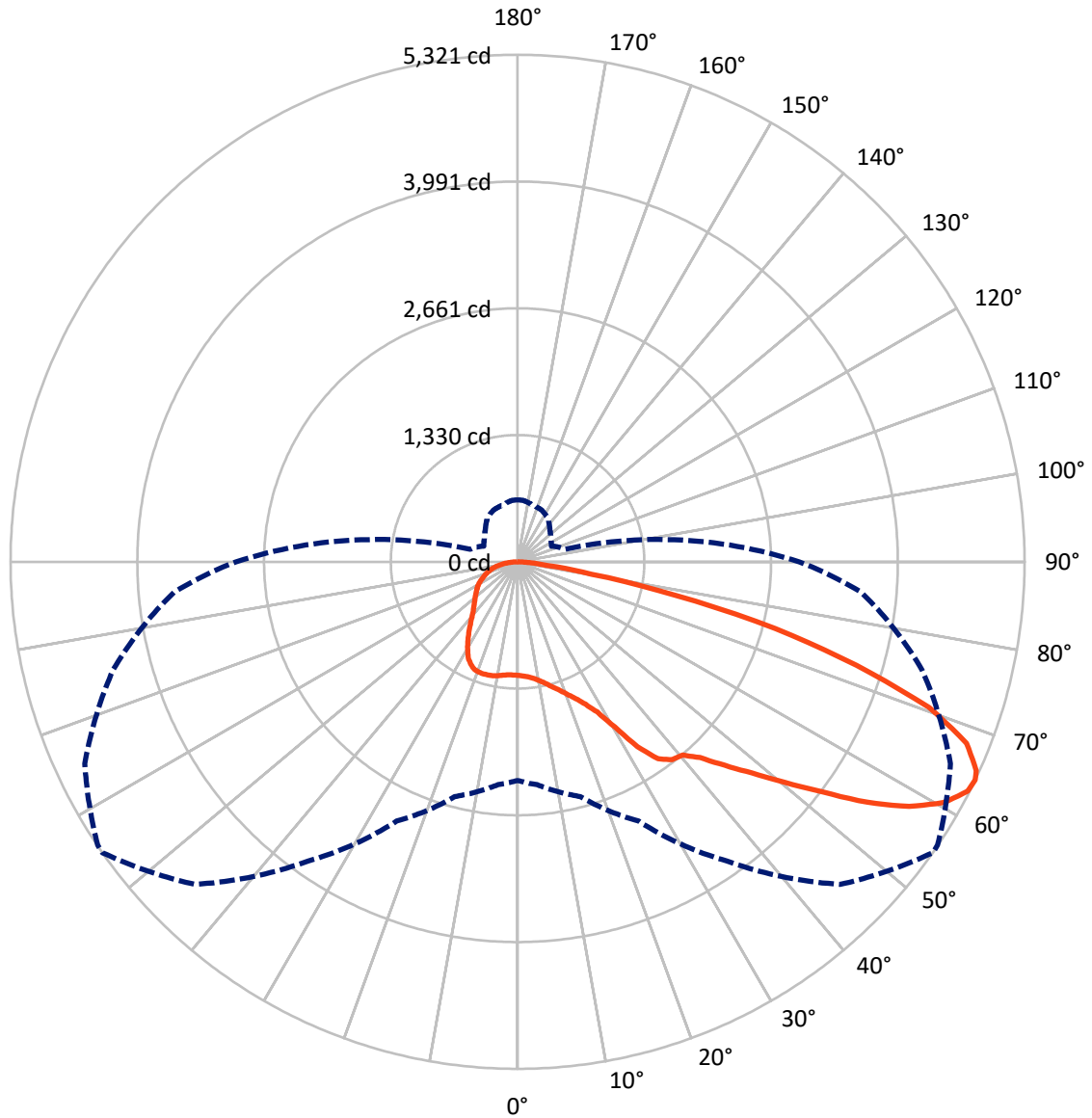
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	2158.3	0.0	2158.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	6726.4	0.0	6726.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	8884.7	0.0	8884.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	1.3
10°-20°	365.9	4.1
20°-30°	651.4	7.3
30°-40°	1002.2	11.3
40°-50°	1420.7	16.0
50°-60°	2056.4	23.1
60°-70°	2128.1	24.0
70°-80°	996.6	11.2
80°-90°	147.5	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°	8884.7	100.0
0°-180°	8884.7	100.0

**Coefficient of Utilization**

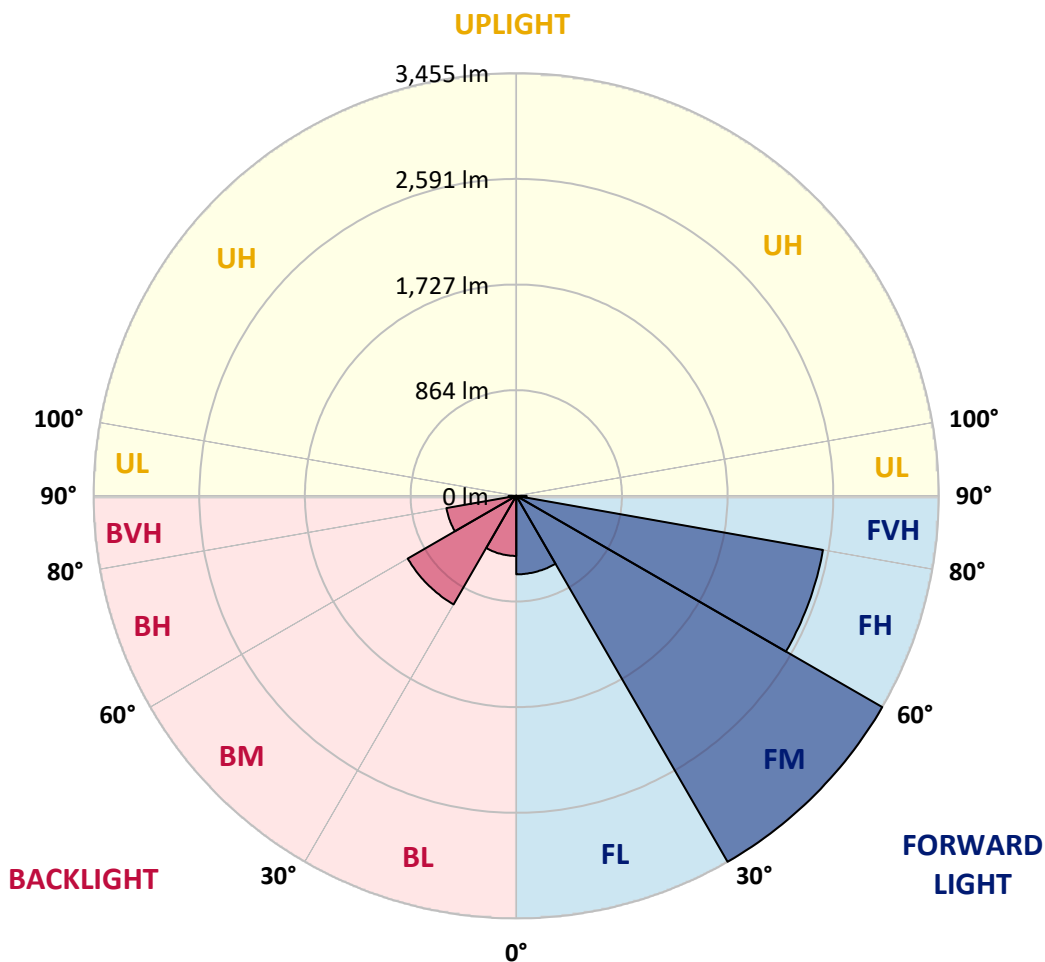


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.6	7.2			
FM (30°-60°)	3454.6	38.9			
FH (60°-80°)	2545.7	28.7			G2/5000
FVH (80°-90°)	84.5	1.0			G1/100
BL (0°-30°)	491.6	5.5	B1/500		
BM (30°-60°)	1024.6	11.5	B2/2500		
BH (60°-80°)	579.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	63.1	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°	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0
2.5°	1205.4	1205.0	1206.4	1205.0	1205.9	1202.5	1201.0	1202.0	1200.5	1198.0	1193.5
5°	1220.3	1219.8	1220.3	1218.3	1219.3	1217.3	1213.9	1214.8	1212.4	1206.9	1200.5
7.5°	1245.5	1243.6	1243.6	1243.1	1241.1	1238.1	1235.7	1234.6	1232.2	1225.2	1215.4
10°	1278.2	1278.2	1278.7	1274.8	1277.2	1271.8	1269.3	1268.9	1260.4	1251.5	1237.6
12.5°	1321.3	1323.8	1322.3	1320.3	1319.4	1317.3	1308.9	1310.9	1301.5	1286.2	1269.3
15°	1374.8	1378.8	1376.3	1375.3	1372.8	1365.4	1362.0	1360.5	1348.1	1325.8	1303.5
17.5°	1445.7	1440.6	1438.7	1436.2	1425.8	1420.4	1414.4	1413.5	1402.5	1376.3	1341.6
20°	1507.5	1514.5	1510.5	1508.1	1497.6	1487.2	1482.8	1481.3	1471.9	1443.1	1387.7
22.5°	1581.3	1582.8	1584.3	1578.4	1573.4	1565.5	1557.5	1555.0	1551.6	1521.9	1454.0
25°	1660.0	1666.0	1661.1	1655.1	1649.2	1648.7	1656.1	1655.1	1653.6	1624.9	1542.2
27.5°	1788.4	1793.8	1795.3	1788.8	1766.1	1768.0	1784.8	1790.3	1813.1	1765.6	1655.6
30°	1860.6	1866.1	1878.5	1902.8	1938.9	1970.6	2011.2	2023.6	2045.4	1955.7	1790.3
32.5°	1905.2	1907.2	1929.5	1974.6	2083.0	2201.4	2311.8	2316.3	2330.1	2204.4	1913.7
35°	1975.5	1977.0	1994.8	2044.4	2171.7	2368.7	2539.7	2545.1	2533.7	2281.6	1971.0
37.5°	2062.2	2066.2	2077.5	2118.6	2270.7	2508.9	2634.2	2630.3	2529.2	2343.0	2072.6
40°	2188.5	2188.5	2175.1	2230.6	2375.2	2589.1	2667.4	2660.5	2633.7	2520.8	2227.1
42.5°	2299.9	2297.9	2329.7	2367.2	2505.9	2712.9	2806.6	2817.9	2862.0	2744.2	2402.9
45°	2445.0	2453.9	2471.8	2540.1	2728.3	2924.4	3045.2	3056.2	3118.5	3007.1	2608.5
47.5°	2591.7	2594.6	2650.5	2741.7	3003.7	3211.2	3310.2	3328.1	3385.0	3314.7	2829.8
50°	2695.6	2723.8	2813.5	2957.2	3287.4	3560.8	3638.1	3659.4	3759.9	3649.5	3087.8
52.5°	2805.6	2833.3	2942.7	3161.7	3613.3	3918.4	4013.5	4027.8	4132.4	3988.2	3351.9
55°	2899.7	2925.4	3049.7	3342.9	3872.8	4283.4	4455.7	4438.9	4488.9	4249.2	3555.4
57.5°	2915.0	2935.9	3092.3	3458.8	4067.9	4596.4	4843.5	4853.4	4795.5	4444.3	3723.2
60°	2796.2	2838.8	3018.5	3446.5	4155.6	4814.3	5132.7	5139.7	4975.3	4544.4	3790.1
62.5°	2585.7	2581.2	2798.7	3247.3	4032.8	4863.8	5303.1	5295.7	5045.6	4496.4	3725.3
64°	2295.0	2348.5	2551.5	3002.6	3834.7	4787.6	5321.0	5317.0	5011.9	4396.3	3614.8
65°	2117.7	2114.7	2315.3	2802.6	3637.6	4672.6	5289.2	5283.8	4941.6	4306.7	3529.1
67.5°	1528.8	1535.8	1733.9	2162.7	2957.2	4223.5	5082.7	5062.4	4664.3	4009.5	3203.3
70°	926.1	930.0	1085.6	1434.7	2122.6	3414.2	4581.5	4582.5	4239.8	3565.8	2726.3
72.5°	487.8	498.2	560.6	814.7	1289.1	2395.5	3716.8	3805.0	3640.1	3043.3	2153.8
75°	271.4	272.9	317.0	401.7	657.7	1340.7	2793.7	2819.0	2881.8	2449.5	1592.7
77.5°	207.0	210.0	223.9	259.5	358.1	621.5	1690.8	1817.6	2031.0	1726.9	908.7
80°	167.9	170.9	182.8	204.0	238.2	294.6	785.4	853.8	1087.0	766.6	354.6
82.5°	130.8	128.7	144.2	158.0	173.4	174.3	322.4	356.6	442.8	329.8	153.5
85°	97.1	97.1	109.5	106.5	111.9	102.0	142.1	157.0	177.3	140.2	71.3
87.5°	38.6	42.6	71.8	64.4	50.0	40.1	52.5	55.4	61.4	55.0	29.7
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°	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0	1192.0
2.5°	1194.1	1195.6	1192.0	1189.6	1188.6	1187.1	1185.6	1186.1	1188.1	1190.1	1189.6
5°	1199.9	1200.5	1194.5	1191.6	1189.6	1187.6	1187.6	1189.1	1193.1	1196.0	1196.0
7.5°	1214.8	1214.8	1206.4	1201.0	1198.0	1194.5	1193.5	1194.1	1197.0	1201.0	1201.4
10°	1238.1	1236.1	1225.2	1216.8	1211.4	1202.9	1195.6	1191.6	1193.1	1195.6	1195.6
12.5°	1266.3	1260.9	1247.0	1235.7	1222.3	1206.4	1191.1	1183.1	1182.6	1185.1	1184.1
15°	1296.6	1290.6	1271.3	1250.5	1227.2	1203.9	1185.6	1174.3	1165.3	1162.8	1168.3
17.5°	1331.7	1319.4	1292.6	1263.8	1229.2	1199.0	1170.3	1147.0	1131.1	1126.7	1128.1
20°	1374.3	1358.0	1321.8	1276.8	1227.7	1181.2	1136.6	1105.4	1079.6	1071.7	1072.7
22.5°	1433.3	1405.0	1352.0	1283.2	1215.4	1147.5	1085.6	1045.0	1013.8	1001.4	1008.8
25°	1500.1	1469.4	1380.7	1281.7	1183.1	1093.5	1025.2	972.2	943.9	925.6	929.6
27.5°	1592.2	1537.7	1411.4	1268.3	1137.1	1027.6	948.4	898.4	872.7	863.2	867.6
30°	1710.1	1626.4	1444.6	1232.2	1064.3	944.5	871.2	838.4	823.1	811.2	815.2
32.5°	1795.3	1688.8	1452.1	1171.3	985.6	868.7	818.6	794.4	777.5	766.2	768.6
35°	1856.2	1741.8	1448.6	1096.5	903.3	806.3	777.0	757.2	730.0	705.2	700.8
37.5°	1937.9	1808.2	1423.3	1014.8	822.1	764.1	743.4	706.7	667.6	634.4	632.9
40°	2063.2	1885.9	1369.4	918.7	752.8	733.0	707.7	660.1	618.1	591.3	589.4
42.5°	2192.5	1957.7	1296.0	817.7	695.9	700.3	669.5	622.6	596.8	579.4	577.5
45°	2350.4	2035.5	1216.8	730.0	653.7	669.5	636.4	609.2	593.8	582.4	579.4
47.5°	2521.3	2115.2	1127.7	651.2	618.1	641.4	622.6	610.1	601.7	593.8	590.3
50°	2705.5	2204.4	1044.0	587.9	585.8	612.1	621.1	616.6	611.6	609.2	606.2
52.5°	2907.6	2295.4	973.7	543.3	557.7	591.3	621.5	625.0	625.0	623.5	621.5
55°	3044.3	2358.9	902.3	507.1	528.9	574.5	620.5	633.9	638.8	636.9	634.9
57.5°	3145.3	2393.6	812.7	475.9	504.6	558.1	615.1	634.9	639.9	642.4	641.4
60°	3166.1	2361.4	695.3	443.3	478.4	534.4	595.3	620.1	626.5	641.8	643.3
62.5°	3072.5	2262.3	578.5	411.1	446.2	498.2	568.5	603.2	616.1	639.9	642.4
64°	2957.6	2151.4	513.6	390.7	425.4	477.9	555.1	598.8	615.6	647.3	649.3
65°	2873.5	2070.6	472.9	377.9	412.0	464.6	547.7	600.2	620.1	658.7	661.6
67.5°	2563.4	1792.8	391.3	347.7	380.4	441.8	549.2	612.6	619.0	663.1	662.7
70°	2121.1	1427.3	327.8	319.9	349.6	423.4	543.3	592.8	593.3	622.6	615.6
72.5°	1588.2	1054.9	284.3	291.2	315.5	379.8	513.1	566.0	557.7	561.6	554.7
75°	1091.0	697.8	244.7	260.5	279.8	335.8	470.5	514.0	500.7	495.7	490.8
77.5°	582.4	385.8	203.6	230.3	243.2	290.2	410.5	452.7	438.8	419.5	413.0
80°	235.8	181.7	164.0	190.7	198.1	233.7	341.7	367.9	357.6	323.9	313.0
82.5°	118.4	108.9	128.7	150.0	150.6	166.9	254.1	278.8	255.6	214.5	205.1
85°	61.9	63.9	88.6	105.5	93.1	90.1	152.5	168.9	155.0	134.7	121.4
87.5°	22.3	25.8	46.6	46.0	32.7	17.3	33.7	16.4	8.9	5.5	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

(END OF REPORT)