

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: P526815

Luminaire Tested: **GALN-SA1D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4435 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

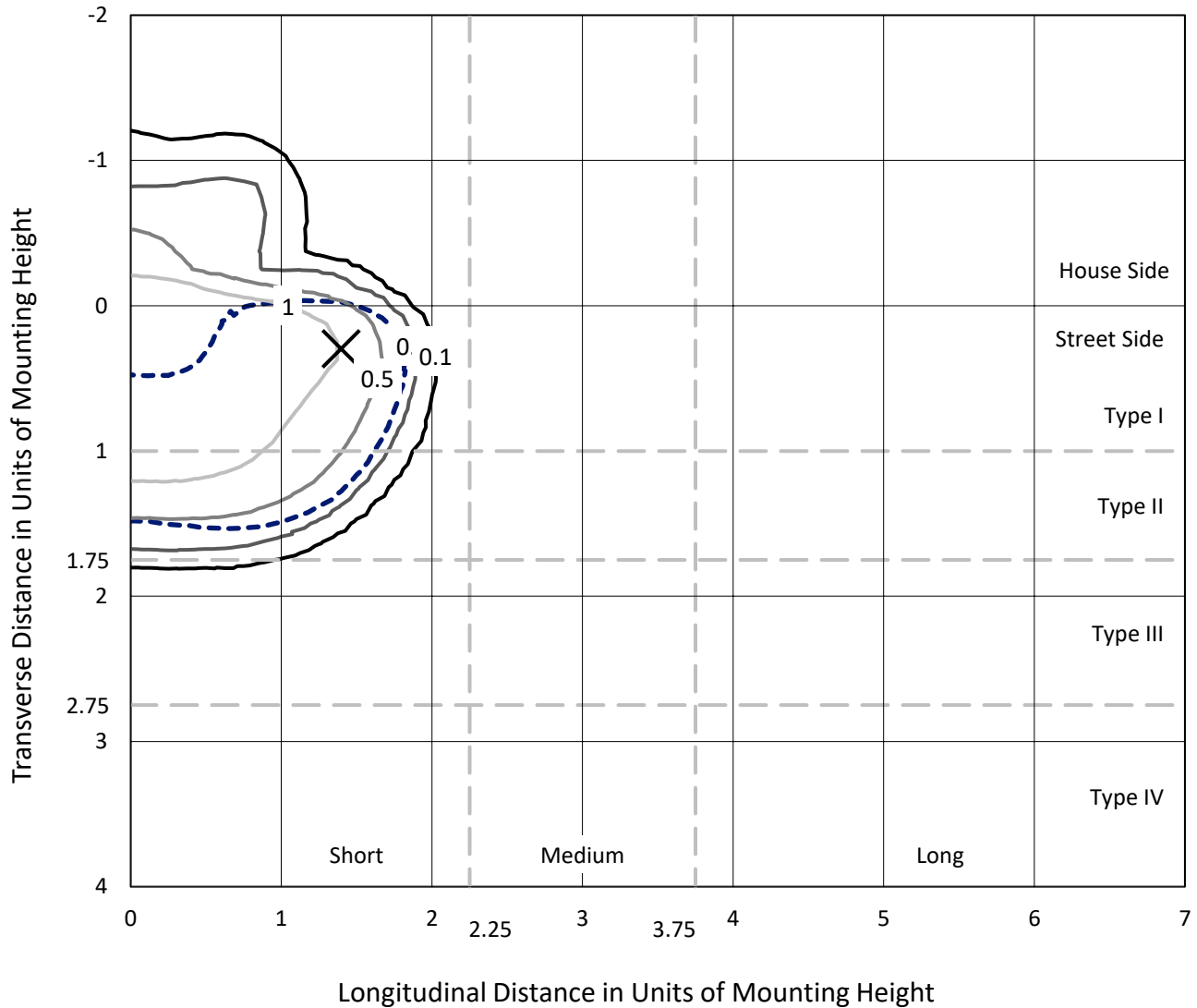
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P526815  
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### Iso-Footcandle Lines of Horizontal Illumination

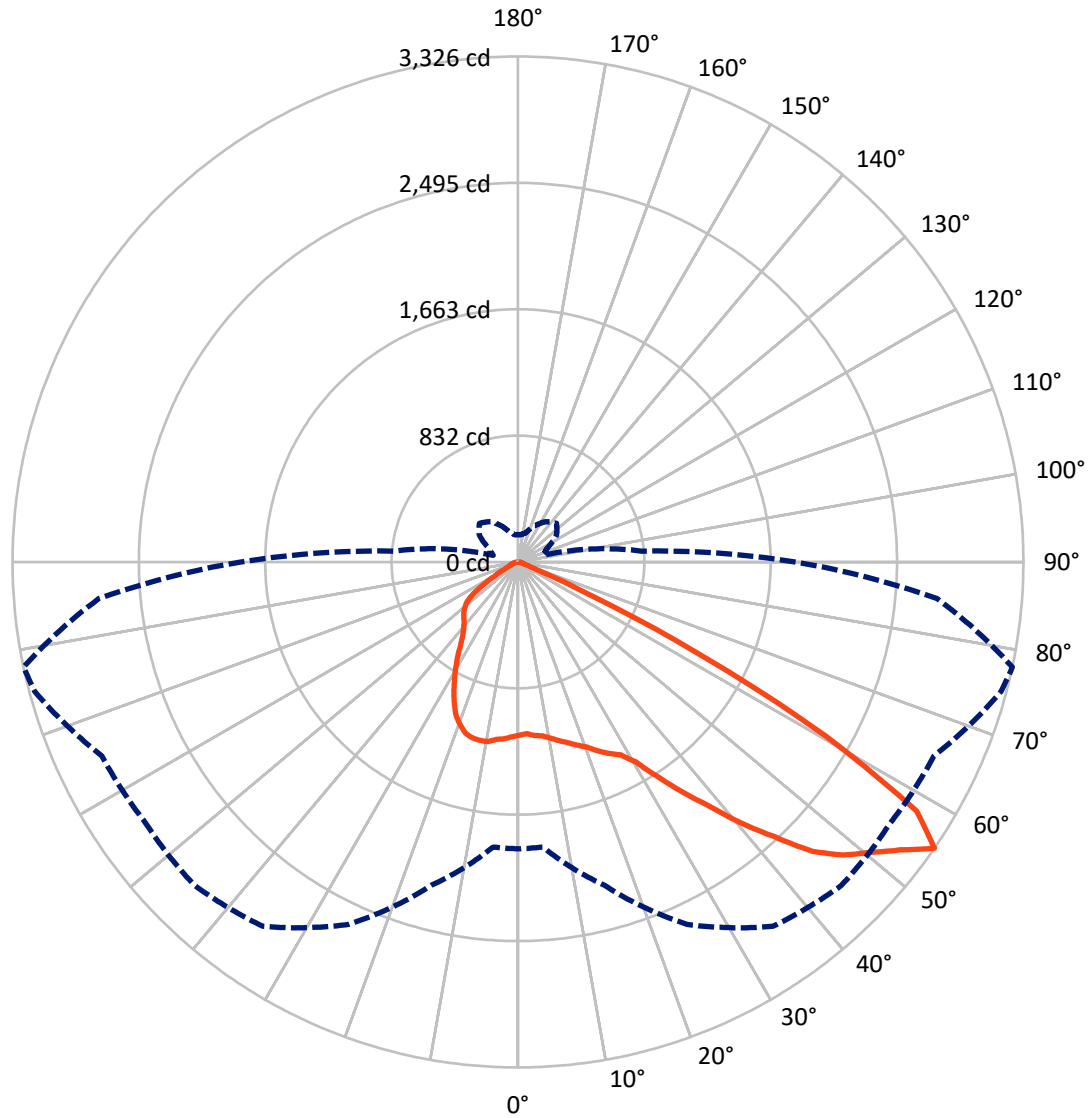
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

REPORT NUMBER: P526815  
CATALOG NUMBER: GALN-SA1D-735-U-T3R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GALN-SA1D-735-U-T3R-GRSBK

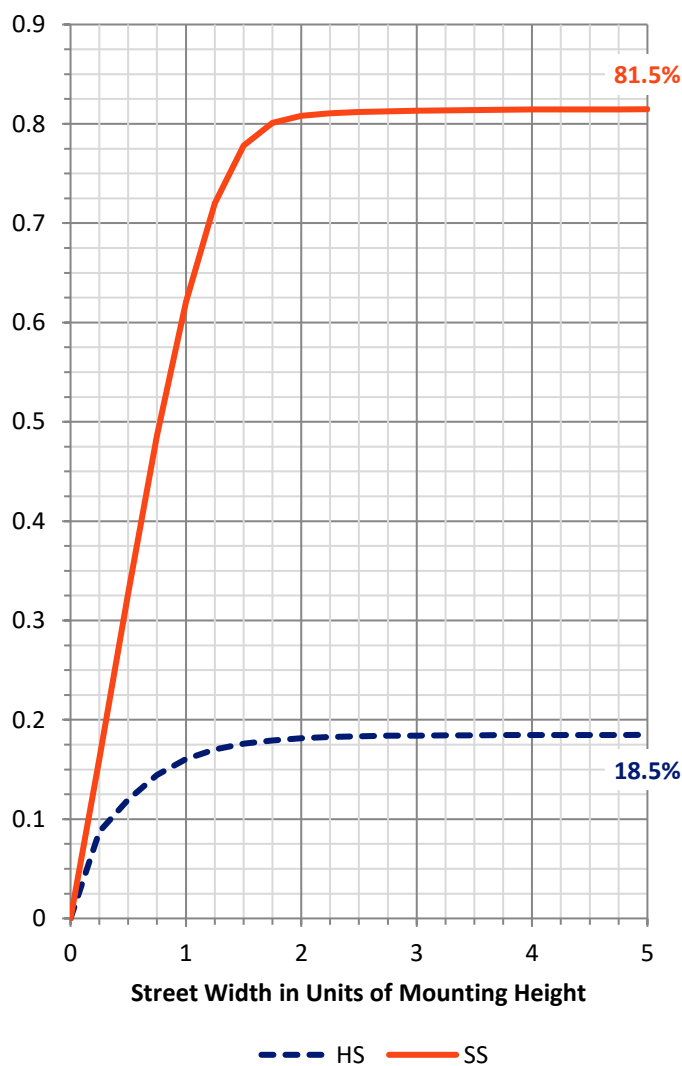
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	823.8	0.0	823.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3611.3	0.0	3611.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	4435.0	0.0	4435.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	2.3
10°-20°	269.1	6.1
20°-30°	471.6	10.6
30°-40°	777.7	17.5
40°-50°	1131.6	25.5
50°-60°	1282.3	28.9
60°-70°	366.6	8.3
70°-80°	28.5	0.6
80°-90°	5.9	0.1
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°	4435.0	100.0
0°-180°	4435.0	100.0

**Coefficient of Utilization**



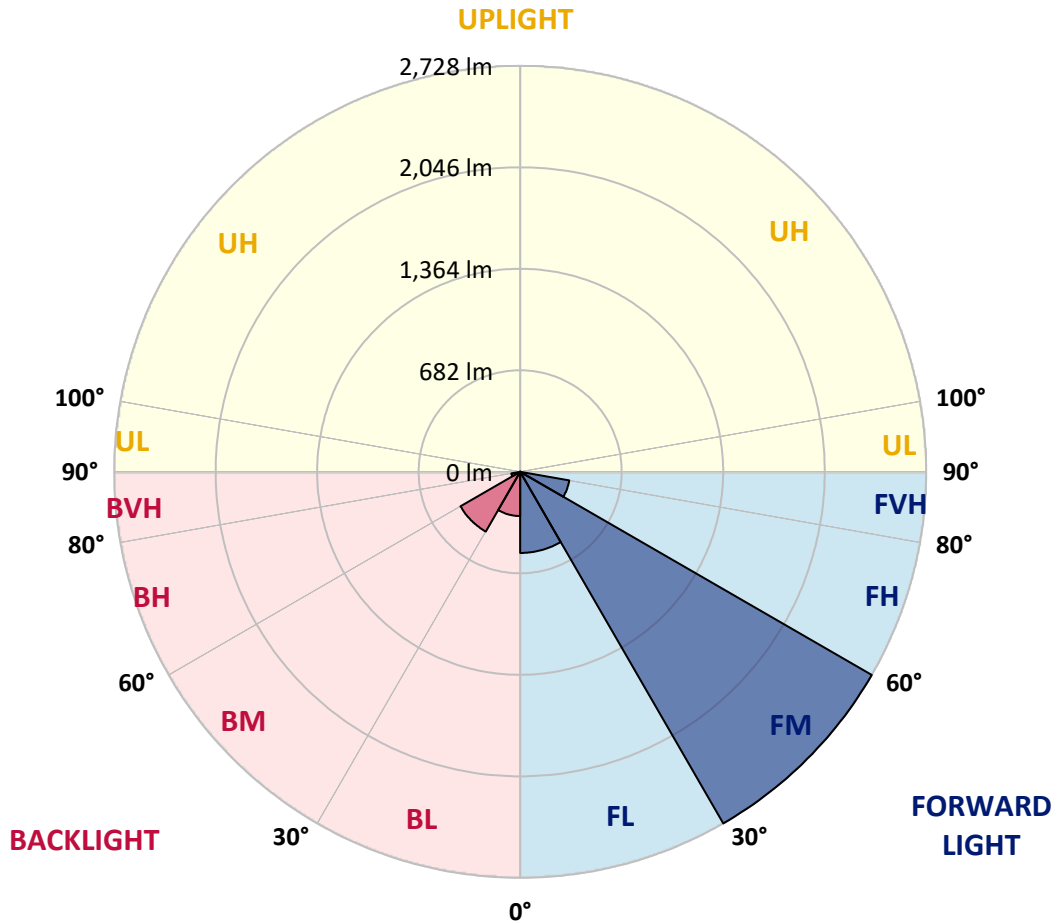
REPORT NUMBER: P526815  
 CATALOG NUMBER: GALN-SA1D-735-U-T3R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.2	12.3			
FM (30°-60°)	2728.2	61.5			
FH (60°-80°)	335.0	7.6			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	297.2	6.7	B1/500		
BM (30°-60°)	463.4	10.4	B1/1000		
BH (60°-80°)	60.1	1.4	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





REPORT NUMBER: P526815

CATALOG NUMBER: GALN-SA1D-735-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1072.0	1082.4	1083.9	1096.6	1095.8	1117.2	1123.6	1124.4	1138.7	1131.5	1149.8
5°	1041.9	1036.4	1034.0	1056.2	1062.5	1081.6	1097.4	1106.9	1136.3	1146.6	1165.6
7.5°	1015.0	1015.0	1016.5	1036.4	1034.0	1058.6	1075.2	1104.6	1147.4	1156.1	1179.1
10°	988.8	979.3	991.2	1011.8	1029.2	1040.3	1075.2	1103.0	1152.9	1178.3	1210.0
12.5°	975.3	980.1	981.7	996.7	1015.8	1049.1	1068.1	1114.1	1192.6	1207.6	1241.7
15°	1060.2	1050.6	1027.6	1014.2	1030.0	1045.9	1093.5	1140.2	1213.2	1234.6	1272.7
17.5°	1158.5	1150.5	1131.5	1095.0	1059.4	1088.7	1126.0	1168.8	1235.4	1267.1	1323.4
20°	1286.9	1274.2	1255.2	1183.9	1152.9	1121.2	1160.9	1211.6	1271.9	1300.4	1358.3
22.5°	1440.0	1440.0	1397.2	1310.7	1246.5	1216.4	1233.0	1262.4	1312.3	1351.2	1408.3
25°	1599.4	1594.6	1555.7	1466.1	1357.5	1321.8	1340.9	1361.5	1374.9	1396.4	1434.4
27.5°	1781.7	1754.0	1704.8	1605.7	1509.7	1440.8	1461.4	1443.1	1426.5	1437.6	1492.3
30°	1905.4	1922.9	1860.2	1765.1	1674.7	1597.8	1601.7	1585.9	1509.7	1525.6	1558.1
32.5°	2033.9	2045.0	2010.1	1957.8	1867.4	1777.8	1745.3	1731.8	1674.7	1681.8	1650.1
35°	2140.9	2162.3	2131.4	2108.4	2082.2	2010.1	1920.5	1964.1	1872.1	1854.7	1772.2
37.5°	2239.2	2232.9	2269.4	2245.6	2240.0	2189.3	2091.0	2099.7	2037.8	2033.9	1938.7
40°	2327.3	2328.9	2378.8	2389.9	2367.7	2277.3	2134.6	2203.6	2253.5	2258.3	2136.2
42.5°	2400.2	2421.6	2464.4	2554.0	2520.7	2370.1	2179.8	2255.1	2440.7	2470.0	2323.3
45°	2463.7	2507.3	2560.4	2640.5	2621.4	2501.7	2292.4	2361.4	2640.5	2717.4	2499.3
47.5°	2467.6	2524.7	2582.6	2701.5	2725.3	2572.3	2408.9	2529.5	2799.1	2882.3	2627.8
50°	2451.8	2481.9	2597.7	2726.9	2780.8	2687.3	2572.3	2670.6	2952.9	3005.2	2692.8
52.5°	2263.8	2286.8	2519.2	2750.7	2880.7	2817.3	2788.8	2867.3	3109.9	3148.7	2753.9
55°	1887.2	1883.2	2202.8	2631.0	2926.7	3010.0	2992.5	3020.3	3291.5	3326.4	2768.9
57.5°	1290.9	1363.1	1639.0	2190.9	2645.2	2964.8	2983.0	2937.0	3079.8	3093.2	2413.7
60°	696.2	726.3	948.4	1462.2	2014.1	2416.1	2463.7	2380.4	2369.3	2331.2	1723.0
62.5°	276.7	291.8	417.9	724.0	1097.4	1468.5	1570.8	1536.7	1463.8	1363.8	892.1
65°	131.6	141.1	207.7	338.6	486.9	612.1	714.4	746.2	550.3	495.6	294.2
67.5°	89.6	96.7	151.5	193.5	173.7	181.6	236.3	219.6	129.2	110.2	81.7
70°	68.2	73.0	121.3	131.6	77.7	54.7	61.1	57.1	53.1	53.9	53.1
72.5°	48.4	52.3	88.8	77.7	34.1	25.4	32.5	38.9	38.9	38.9	38.1
75°	29.3	33.3	51.5	30.1	13.5	13.5	20.6	26.2	27.8	28.5	27.0
77.5°	15.1	19.0	17.4	8.7	8.7	10.3	15.1	18.2	19.8	19.8	19.0
80°	3.2	3.2	3.2	4.8	8.7	11.1	15.1	16.7	19.0	19.0	17.4
82.5°	0.0	0.8	2.4	4.8	7.9	10.3	14.3	16.7	19.0	19.8	18.2
85°	0.0	0.8	1.6	3.2	5.6	6.3	5.6	4.8	4.8	4.8	4.8
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526815

CATALOG NUMBER: GALN-SA1D-735-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1151.3	1153.7	1149.8	1149.0	1145.8	1155.3	1132.3	1126.8	1141.0	1127.6	1130.7
5°	1166.4	1172.0	1164.8	1152.9	1135.5	1108.5	1085.5	1055.4	1041.1	1030.8	1029.2
7.5°	1177.5	1181.5	1174.3	1136.3	1083.9	1015.8	965.0	927.7	898.4	889.7	875.4
10°	1222.7	1223.5	1187.8	1103.8	1001.5	911.9	834.2	777.1	747.7	729.5	721.6
12.5°	1252.8	1251.3	1179.1	1039.5	903.2	784.2	695.4	626.4	599.5	590.7	585.2
15°	1290.9	1282.2	1158.5	973.7	776.3	647.8	567.7	520.2	517.8	512.2	517.8
17.5°	1321.0	1296.4	1128.3	854.0	655.0	533.6	481.3	484.5	490.8	496.4	497.2
20°	1370.2	1319.4	1059.4	749.3	542.4	457.5	456.7	471.0	486.9	493.2	499.5
22.5°	1407.5	1329.0	985.6	637.5	450.4	426.6	440.1	461.5	473.4	479.7	489.2
25°	1420.9	1302.8	887.3	525.7	406.0	412.3	432.9	447.2	462.3	469.4	465.5
27.5°	1434.4	1289.3	769.9	432.9	382.2	402.8	420.3	434.5	439.3	448.8	455.1
30°	1466.9	1242.5	664.5	374.3	370.3	396.5	409.2	413.9	426.6	432.1	432.1
32.5°	1493.1	1224.3	552.7	346.5	368.7	399.6	401.2	401.2	402.8	398.8	397.3
35°	1547.0	1161.7	452.8	329.9	367.9	400.4	404.4	390.9	354.4	340.2	336.2
37.5°	1613.6	1121.2	379.0	325.9	373.5	409.9	416.3	365.5	318.0	295.0	291.0
40°	1694.5	1092.7	330.7	324.3	386.2	432.1	413.1	345.7	283.9	250.6	249.0
42.5°	1788.9	1066.5	298.1	323.5	402.0	455.1	409.9	329.1	249.0	226.8	230.0
45°	1864.2	1052.2	275.9	318.0	407.6	468.6	412.3	299.7	234.7	220.4	222.0
47.5°	1922.9	1022.1	257.7	308.5	406.8	473.4	390.9	287.8	227.6	231.5	235.5
50°	1924.5	981.7	234.7	287.8	394.9	464.7	366.3	276.7	226.0	242.6	250.6
52.5°	1903.0	924.6	210.1	258.5	367.1	434.5	344.1	272.0	218.9	217.3	226.8
55°	1826.9	817.5	168.9	209.3	310.0	358.4	324.3	263.3	197.4	179.2	180.8
57.5°	1476.4	586.0	124.5	149.9	219.6	262.5	292.6	259.3	177.6	152.2	153.0
60°	914.3	332.2	91.2	102.3	135.6	159.4	237.1	241.1	158.6	128.5	126.9
62.5°	469.4	164.1	70.6	72.2	83.3	93.6	162.6	202.2	143.5	122.1	122.1
65°	157.0	80.9	61.8	55.5	55.5	57.9	98.3	140.3	121.3	102.3	102.3
67.5°	67.4	60.3	53.9	48.4	44.4	42.0	55.5	81.7	90.4	77.7	74.5
70°	52.3	50.7	46.8	40.4	34.9	31.7	32.5	42.0	51.5	50.0	48.4
72.5°	38.9	38.9	37.3	31.7	27.0	23.0	21.4	22.2	24.6	25.4	26.2
75°	27.0	27.8	27.8	24.6	19.8	16.7	14.3	11.9	9.5	7.9	7.1
77.5°	18.2	19.0	20.6	18.2	15.1	11.1	8.7	6.3	4.0	1.6	1.6
80°	15.9	18.2	19.8	18.2	15.9	11.9	8.7	4.8	2.4	0.0	0.0
82.5°	16.7	18.2	20.6	17.4	15.1	11.1	8.7	5.6	2.4	0.8	0.0
85°	4.0	4.0	4.8	5.6	7.1	7.9	6.3	4.0	2.4	0.8	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)