

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: P526348

Luminaire Tested: **GALN-SA1B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4682 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

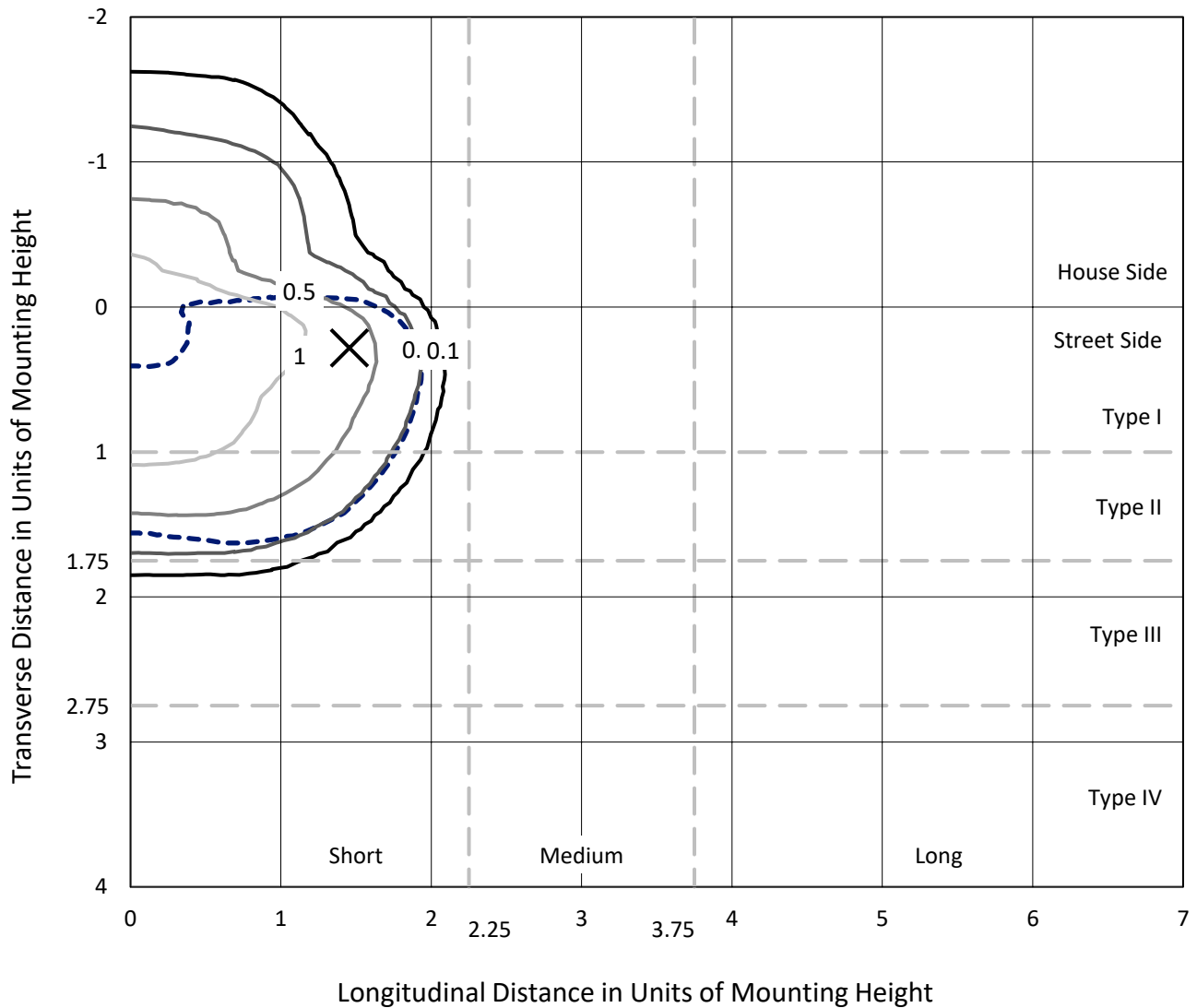
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

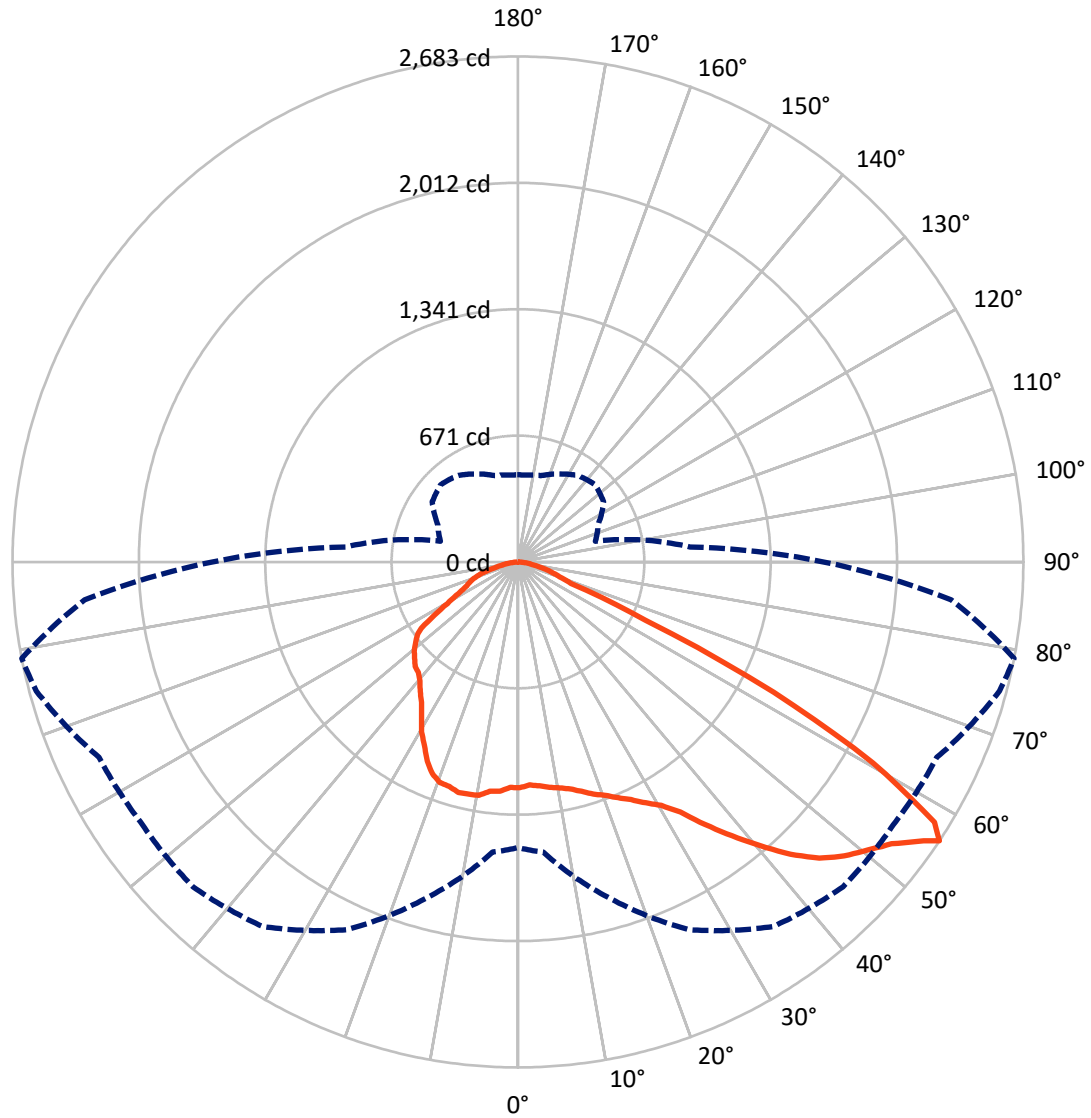
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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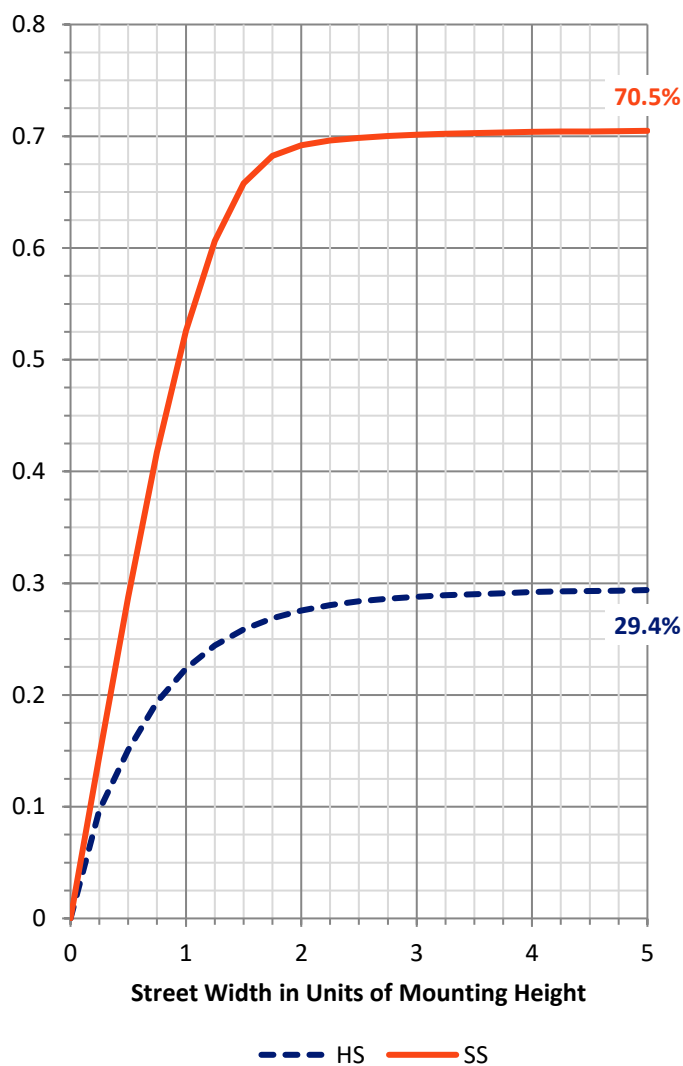
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.7	0.0	1382.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3299.3	0.0	3299.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	4682.0	0.0	4682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	2.3
10°-20°	298.1	6.4
20°-30°	509.9	10.9
30°-40°	781.6	16.7
40°-50°	1056.3	22.6
50°-60°	1213.2	25.9
60°-70°	553.0	11.8
70°-80°	136.3	2.9
80°-90°	24.8	0.5
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°	4682.0	100.0
0°-180°	4682.0	100.0

Coefficient of Utilization

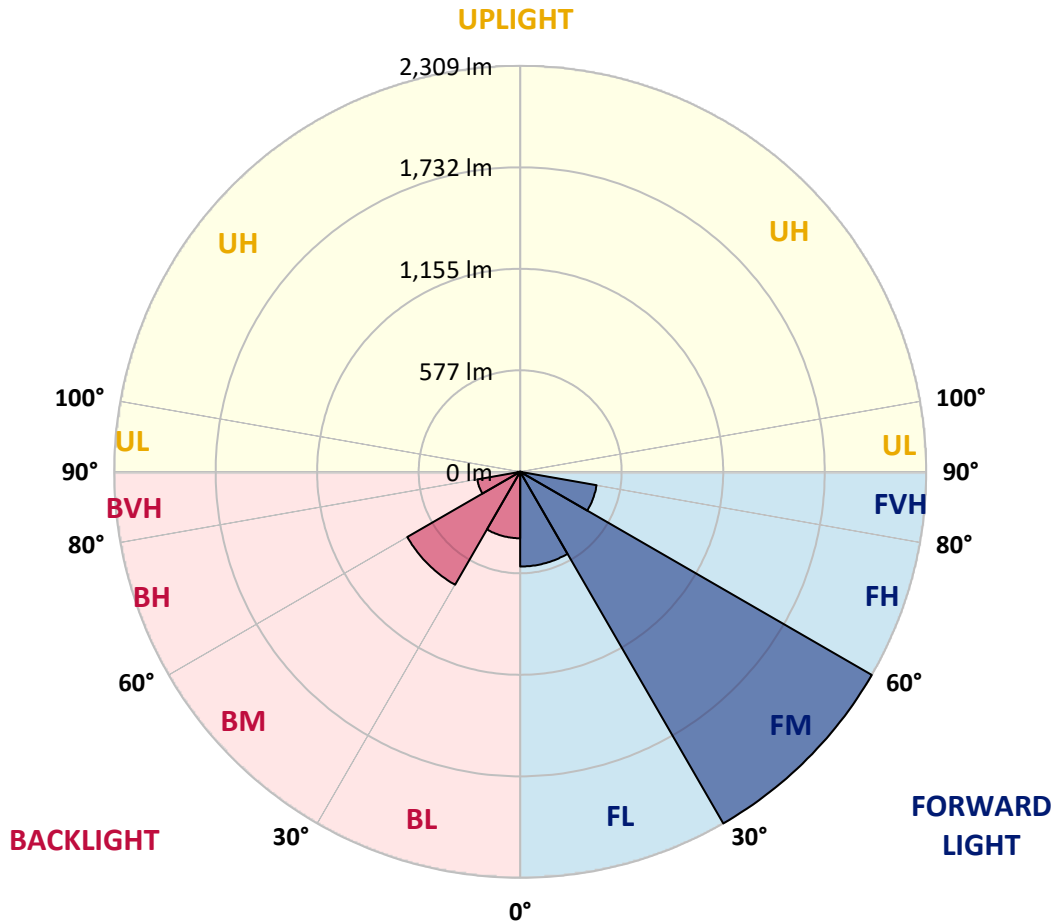


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.7	11.5			
FM (30°-60°)	2309.3	49.3			
FH (60°-80°)	441.4	9.4			G0/660
FVH (80°-90°)	9.9	0.2			G0/10
BL (0°-30°)	378.2	8.1	B1/500		
BM (30°-60°)	741.7	15.8	B1/1000		
BH (60°-80°)	247.9	5.3	B1/500		G1/500
BVH (80°-90°)	14.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1139.6	1136.7	1143.7	1148.9	1155.4	1163.5	1167.6	1169.9	1190.4	1185.1	1200.9
5°	1115.1	1107.5	1112.8	1116.9	1128.0	1137.9	1148.9	1166.4	1185.1	1193.3	1212.5
7.5°	1093.5	1089.5	1088.3	1091.2	1106.4	1119.2	1138.4	1164.1	1194.4	1207.9	1218.9
10°	1058.0	1052.1	1060.9	1080.1	1084.2	1111.0	1133.2	1169.9	1196.2	1219.5	1252.2
12.5°	1042.2	1036.4	1038.1	1049.2	1077.8	1103.5	1129.7	1171.1	1226.5	1235.8	1279.6
15°	1067.3	1061.5	1063.2	1060.3	1087.7	1101.1	1142.5	1194.4	1247.5	1263.3	1309.9
17.5°	1124.5	1125.0	1117.5	1111.0	1104.6	1133.2	1161.8	1208.4	1255.7	1295.3	1330.3
20°	1233.5	1214.3	1199.1	1162.9	1153.0	1165.3	1201.4	1246.3	1288.9	1321.6	1361.2
22.5°	1317.5	1319.2	1297.7	1238.2	1216.6	1221.9	1252.8	1289.5	1336.2	1359.5	1405.0
25°	1439.4	1427.1	1403.8	1356.6	1308.2	1312.2	1335.0	1368.2	1381.1	1397.4	1447.0
27.5°	1550.8	1554.3	1508.2	1463.9	1403.8	1392.2	1433.0	1438.8	1417.2	1448.1	1465.1
30°	1663.9	1661.0	1630.7	1578.8	1519.9	1522.2	1540.3	1511.7	1482.0	1498.9	1510.5
32.5°	1781.2	1747.9	1746.8	1700.1	1655.2	1633.6	1611.4	1625.4	1579.4	1582.9	1571.8
35°	1875.1	1879.7	1852.9	1819.7	1797.5	1759.6	1698.9	1724.0	1715.3	1711.2	1663.3
37.5°	1943.3	1925.2	1938.6	1927.5	1906.6	1859.3	1796.3	1820.2	1824.3	1844.1	1788.7
40°	1999.3	1991.7	2027.3	2033.1	2018.5	1916.5	1803.3	1874.5	1935.7	1978.9	1913.0
42.5°	2026.1	2042.4	2079.8	2124.7	2092.0	1983.0	1839.5	1915.9	2052.4	2120.6	2030.8
45°	2062.3	2041.3	2096.7	2178.9	2179.5	2038.9	1874.5	1971.9	2143.3	2242.5	2111.3
47.5°	2025.5	2036.0	2093.2	2197.6	2224.4	2097.9	1969.0	2051.2	2243.7	2331.7	2185.9
50°	1943.3	1964.3	2068.7	2177.2	2258.2	2160.3	2077.4	2136.9	2336.4	2403.5	2198.2
52.5°	1857.6	1869.2	2032.5	2192.9	2273.4	2240.7	2222.7	2255.3	2449.5	2484.5	2213.3
55°	1624.3	1679.7	1913.0	2185.9	2347.5	2386.0	2372.0	2419.8	2577.8	2612.8	2296.1
56°	1516.4	1545.5	1841.2	2153.3	2362.0	2439.0	2432.0	2453.6	2646.1	2682.8	2309.0
57.5°	1316.9	1319.2	1570.0	2008.6	2307.2	2454.8	2447.8	2464.7	2632.7	2607.6	2196.4
60°	824.1	860.3	1068.5	1545.0	1962.0	2277.5	2317.1	2181.3	2219.7	2166.7	1708.8
62.5°	426.9	421.7	559.9	903.4	1302.3	1630.7	1667.4	1661.0	1601.5	1524.0	1116.3
65°	212.9	214.0	292.8	447.3	667.2	853.8	956.5	967.6	809.5	744.8	529.6
67.5°	154.6	160.4	210.5	273.5	314.4	351.7	431.0	422.8	320.2	304.4	282.3
70°	120.1	125.4	170.9	208.8	189.5	189.5	206.5	213.5	228.0	234.5	242.0
72.5°	87.5	91.6	130.6	144.1	124.2	133.6	154.6	170.9	186.0	188.4	197.1
75°	60.1	63.6	85.7	79.3	74.7	92.1	113.1	128.3	139.4	145.2	150.5
77.5°	39.1	40.2	49.0	41.4	47.8	59.5	73.5	86.3	97.4	102.1	103.2
80°	17.5	19.2	21.0	26.2	33.2	42.6	52.5	63.0	70.0	71.7	75.2
82.5°	9.9	9.9	12.8	18.7	24.5	30.9	37.9	45.5	53.7	55.4	54.8
85°	5.2	5.2	7.6	11.1	15.2	18.1	17.5	18.1	19.2	22.2	21.6
87.5°	1.7	1.7	2.3	2.3	2.9	3.5	2.9	4.1	5.2	5.2	5.2
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°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1196.2	1201.4	1194.4	1209.6	1209.6	1206.7	1192.1	1196.8	1200.3	1200.3	1203.2
5°	1218.9	1217.2	1221.9	1203.8	1192.7	1188.6	1164.7	1153.0	1143.1	1142.5	1133.8
7.5°	1231.8	1227.1	1225.3	1211.9	1162.9	1133.2	1081.9	1052.1	1045.7	1023.0	1031.7
10°	1252.2	1260.9	1252.2	1179.3	1111.0	1042.8	992.6	946.6	928.5	913.9	905.2
12.5°	1294.2	1290.1	1239.3	1140.8	1045.1	964.1	889.4	841.0	822.9	810.1	808.9
15°	1329.7	1309.3	1231.8	1080.1	942.5	856.2	794.9	760.5	752.4	753.5	758.8
17.5°	1342.0	1328.0	1192.1	1017.1	866.1	764.6	736.0	730.8	738.4	747.1	749.4
20°	1361.2	1339.1	1175.8	931.4	771.6	707.4	705.7	724.4	738.4	751.2	752.9
22.5°	1401.5	1345.5	1122.7	850.3	706.9	690.5	707.4	723.2	744.8	755.3	745.9
25°	1413.1	1331.5	1048.1	752.9	666.0	680.0	698.1	719.7	734.9	740.7	744.8
27.5°	1423.1	1309.9	947.2	688.2	653.2	679.5	698.1	716.2	724.4	729.6	734.3
30°	1451.1	1303.5	859.7	645.0	645.0	667.8	691.7	696.4	707.4	713.9	722.0
32.5°	1465.1	1259.2	769.9	617.6	636.9	673.6	675.4	684.1	684.7	690.0	681.2
35°	1501.8	1227.7	686.5	597.8	640.4	667.8	676.5	671.3	642.7	628.7	631.6
37.5°	1528.6	1211.9	626.4	595.5	641.0	674.2	678.9	639.2	609.5	586.1	592.0
40°	1600.9	1172.9	580.9	591.4	646.2	681.2	668.4	625.2	571.6	547.6	543.6
42.5°	1656.4	1144.9	552.3	586.7	650.3	691.1	663.1	597.2	542.4	520.2	526.1
45°	1720.5	1138.4	537.1	587.9	657.3	696.4	656.7	575.6	517.3	508.6	506.8
47.5°	1743.3	1092.4	520.8	578.0	655.5	694.6	635.1	559.3	508.0	509.2	513.8
50°	1705.3	1045.1	508.6	557.6	643.9	678.9	601.3	537.7	502.7	517.3	525.5
52.5°	1656.9	996.7	483.5	530.1	620.0	654.4	585.6	536.6	497.5	492.8	494.6
55°	1671.5	957.1	448.5	492.8	581.5	608.9	568.1	525.5	484.7	467.2	473.0
56°	1624.3	916.2	425.8	469.5	555.2	579.7	559.3	515.6	474.2	462.5	462.5
57.5°	1490.7	779.2	396.0	432.2	499.8	529.0	542.4	509.7	462.5	442.1	442.7
60°	1099.4	554.1	355.2	380.8	414.1	437.4	499.8	493.4	433.3	419.3	414.1
62.5°	677.7	404.8	326.0	335.9	352.8	372.1	436.3	446.7	402.4	387.3	383.8
65°	379.7	309.7	303.9	307.9	316.1	326.0	362.2	385.5	355.2	331.9	330.7
67.5°	277.6	277.0	281.7	285.2	288.7	288.7	297.4	306.8	302.7	284.0	282.3
70°	246.7	248.5	252.0	252.5	253.7	249.6	242.6	239.7	244.4	232.7	230.4
72.5°	203.5	209.4	213.5	214.0	207.6	202.4	193.0	183.1	179.6	177.3	176.7
75°	156.3	160.4	162.1	161.6	159.2	151.6	140.6	130.6	124.2	117.2	120.7
77.5°	105.6	111.4	114.3	114.3	110.8	99.1	93.9	86.3	79.9	72.3	73.5
80°	74.1	78.2	82.8	82.2	76.4	70.6	63.0	56.0	50.7	44.9	44.3
82.5°	55.4	57.7	60.1	58.9	54.8	49.0	43.7	37.3	31.5	27.4	27.4
85°	19.8	21.6	26.2	27.4	29.7	29.7	25.1	21.0	16.9	14.0	14.0
87.5°	5.8	5.8	6.4	6.4	5.8	6.4	5.2	5.8	6.4	4.1	4.1
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)