

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: P526567

Luminaire Tested: **GALN-SA1C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868 lumens
Efficiency: N/A
Efficacy: 67.9 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

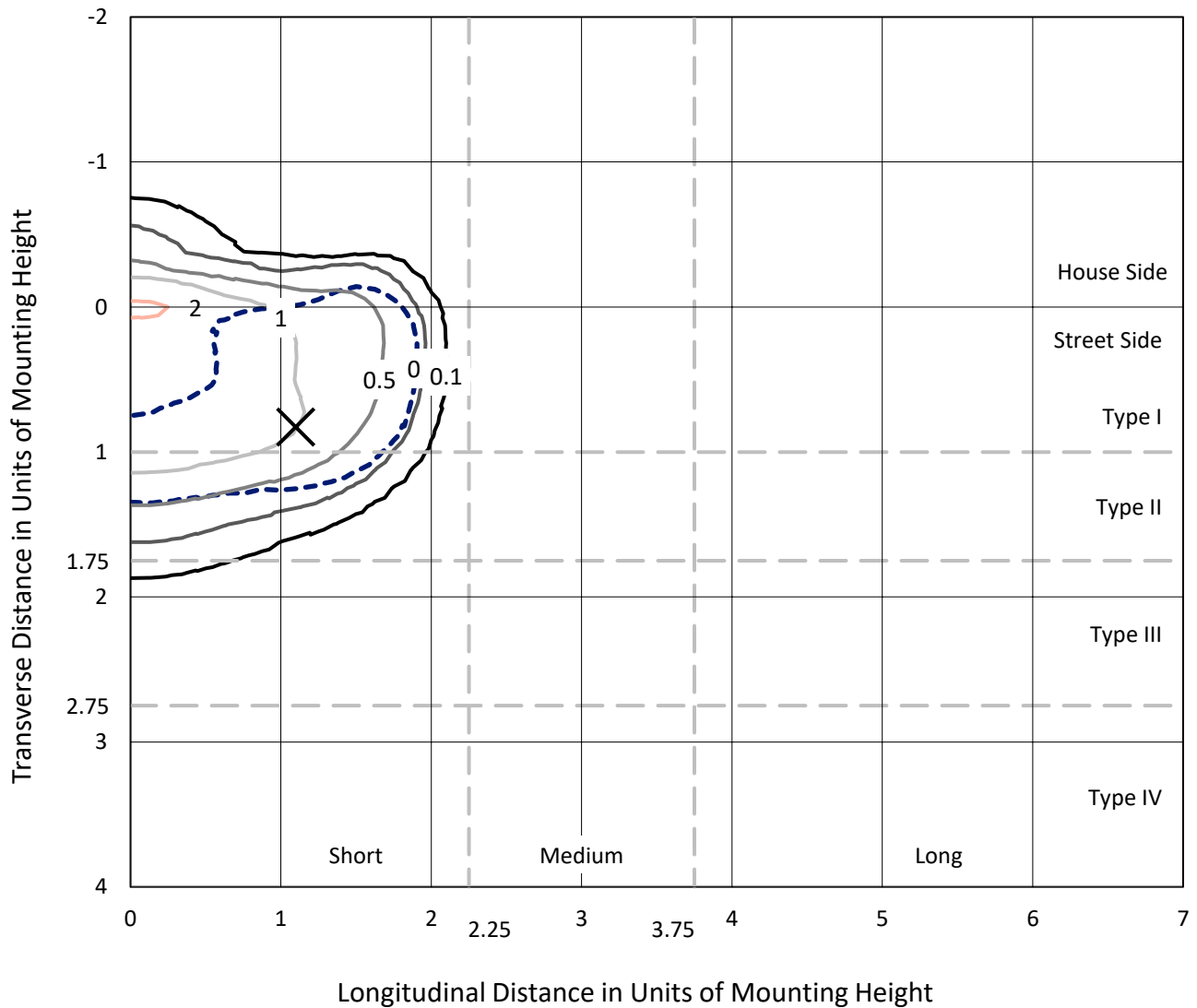
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

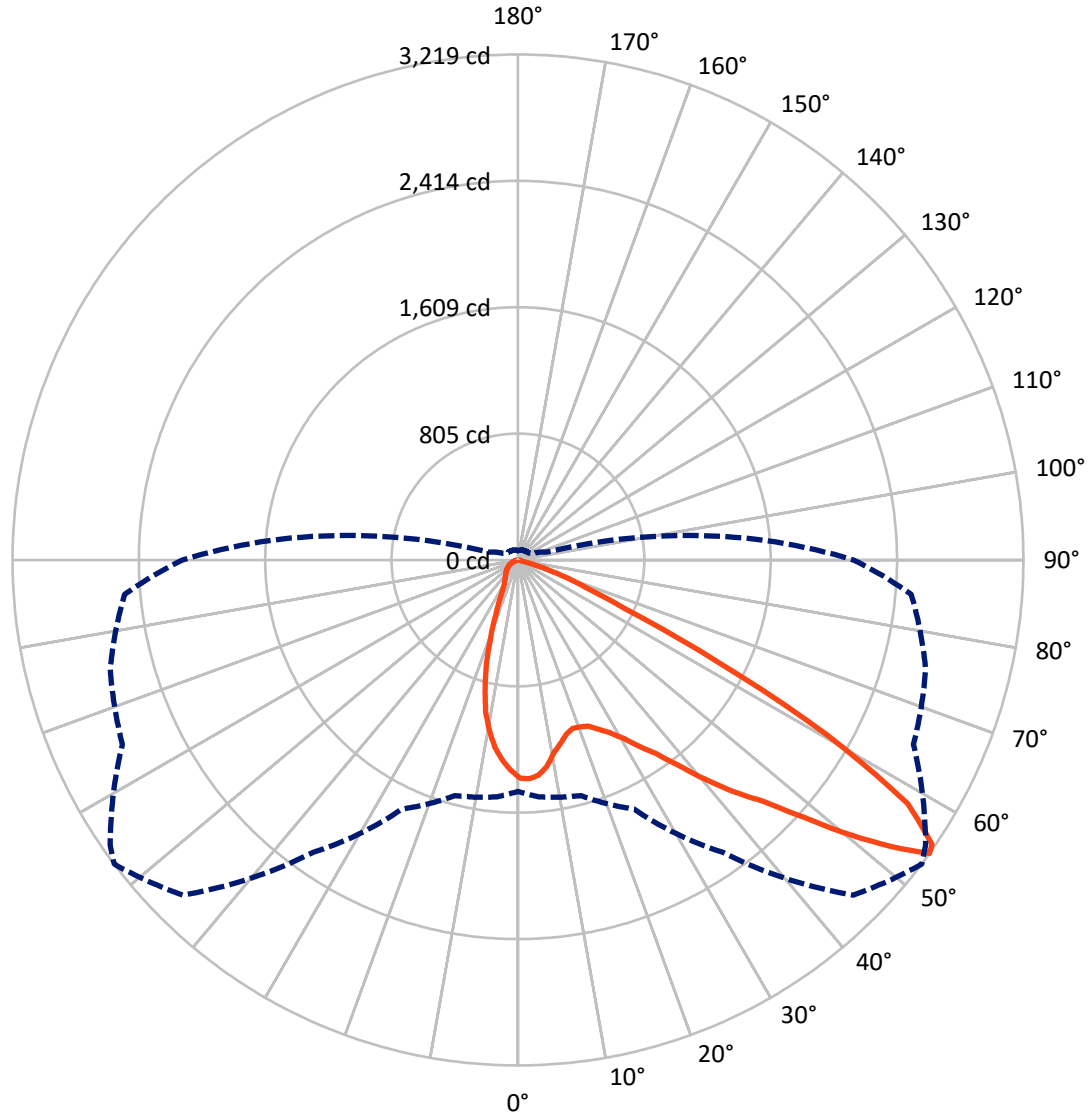
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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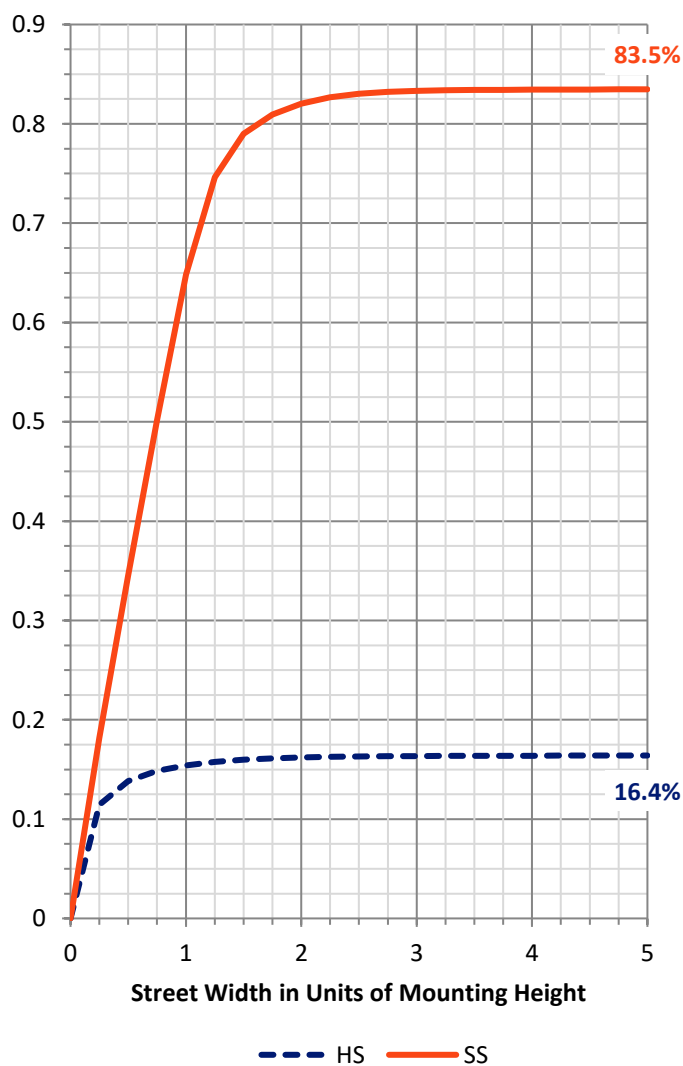
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.0	0.0	640.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3228.0	0.0	3228.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	3868.0	0.0	3868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	3.1
10°-20°	273.3	7.1
20°-30°	388.4	10.0
30°-40°	599.4	15.5
40°-50°	939.8	24.3
50°-60°	1091.7	28.2
60°-70°	412.5	10.7
70°-80°	39.2	1.0
80°-90°	4.4	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°	3868.0	100.0
0°-180°	3868.0	100.0

Coefficient of Utilization



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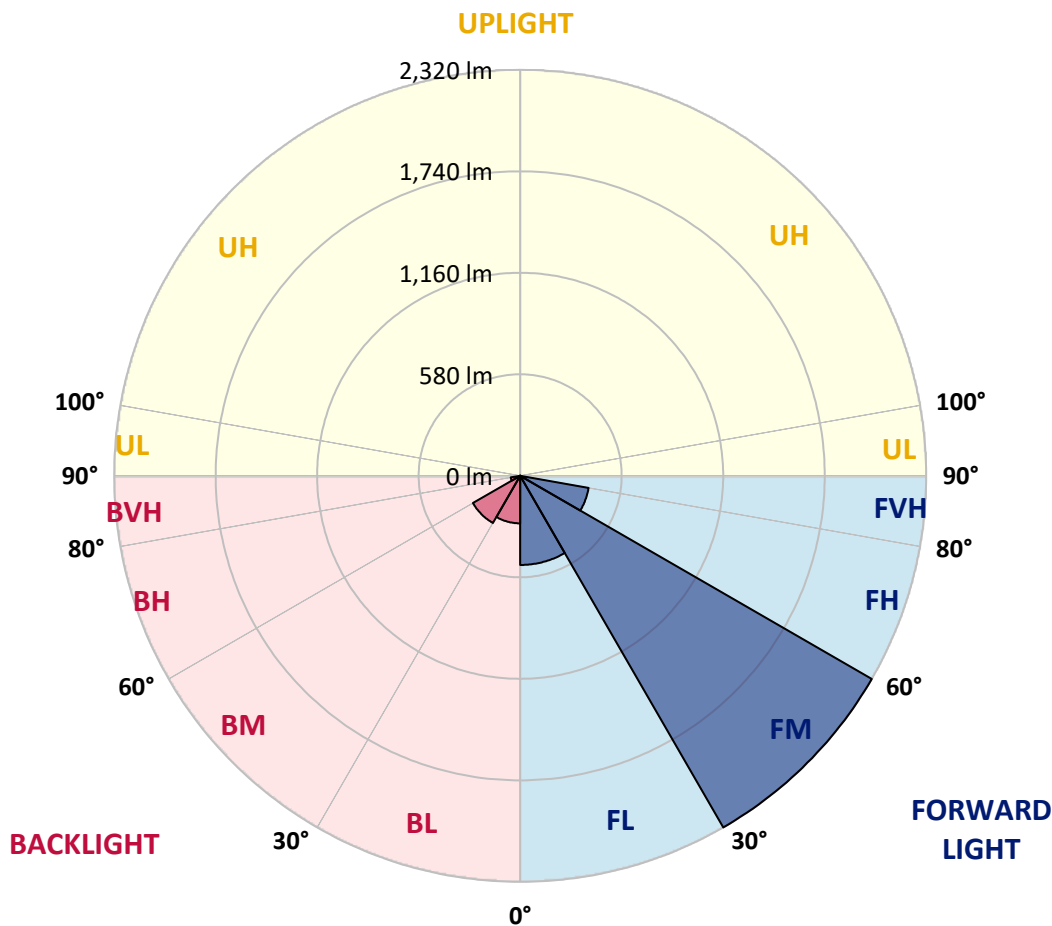
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.3	13.2			
FM (30°-60°)	2319.5	60.0			
FH (60°-80°)	396.9	10.3			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	271.6	7.0	B1/500		
BM (30°-60°)	311.4	8.1	B1/1000		
BH (60°-80°)	54.8	1.4	B0/110		G0/110
BVH (80°-90°)	2.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1382.1	1369.9	1382.1	1383.6	1392.2	1400.1	1395.1	1406.6	1400.1	1392.9	1390.8
5°	1270.4	1287.0	1287.7	1313.7	1307.9	1355.5	1376.3	1370.6	1405.9	1403.7	1398.7
7.5°	1170.3	1163.8	1172.4	1202.7	1240.9	1295.6	1325.9	1325.2	1375.6	1411.7	1408.1
10°	1077.3	1076.6	1094.6	1118.4	1150.8	1208.4	1250.2	1271.1	1349.7	1404.5	1412.4
12.5°	1014.6	1011.7	1031.2	1050.6	1101.8	1146.5	1199.8	1209.9	1300.0	1379.2	1392.2
15°	973.5	980.0	981.5	1018.9	1051.4	1110.4	1152.2	1173.1	1276.9	1359.1	1408.8
17.5°	966.3	975.0	975.7	1006.7	1041.3	1091.0	1127.7	1155.8	1257.5	1369.1	1409.5
20°	980.7	975.7	980.0	999.5	1033.3	1080.9	1134.2	1143.6	1251.0	1374.2	1417.4
22.5°	1021.8	1020.4	1009.6	1025.4	1049.2	1098.9	1149.4	1163.8	1269.7	1400.1	1423.9
25°	1067.2	1075.1	1065.0	1062.9	1079.5	1128.5	1195.5	1214.2	1332.4	1447.0	1444.1
27.5°	1152.2	1144.3	1144.3	1134.2	1129.9	1153.7	1245.2	1276.2	1402.3	1507.5	1467.1
30°	1233.7	1242.3	1235.8	1239.4	1210.6	1208.4	1315.8	1354.0	1526.2	1599.7	1516.1
32.5°	1362.7	1351.1	1361.9	1352.6	1314.4	1275.5	1411.7	1451.3	1676.1	1705.7	1589.6
35°	1470.0	1465.0	1511.1	1509.7	1447.7	1409.5	1513.3	1572.4	1780.6	1832.5	1676.1
37.5°	1622.8	1613.4	1666.0	1691.3	1635.8	1578.8	1658.8	1727.3	1877.9	1934.1	1764.8
40°	1779.9	1803.7	1874.3	1916.1	1857.0	1781.3	1836.8	1857.7	1942.7	2000.4	1825.3
42.5°	1978.8	2013.4	2085.4	2121.5	2116.4	2034.3	2017.7	2017.0	1989.6	1981.7	1870.0
45°	2169.7	2156.8	2267.7	2346.3	2409.7	2385.9	2192.1	2170.5	2063.8	2009.8	1881.5
47.5°	2253.3	2249.0	2324.7	2464.5	2680.6	2710.2	2445.7	2362.1	2189.2	2127.9	1944.2
50°	2145.2	2167.6	2242.5	2397.4	2728.9	2954.5	2757.0	2644.6	2335.5	2272.1	2092.6
52.5°	1792.1	1807.3	1878.6	2075.3	2564.6	3098.6	3055.4	2990.5	2604.3	2499.0	2351.3
54°	1473.6	1514.0	1552.9	1750.3	2272.1	3018.6	3218.9	3169.2	2779.4	2687.8	2514.2
55°	1283.4	1307.2	1335.3	1532.0	2069.6	2883.1	3200.2	3204.5	2896.8	2746.9	2623.7
57.5°	937.5	954.1	925.3	1012.4	1421.0	2341.2	2927.1	3043.8	3055.4	2835.6	2690.7
60°	716.3	723.5	691.1	704.7	883.5	1606.9	2264.1	2404.6	2756.3	2478.1	2279.3
62.5°	555.6	557.0	556.3	580.1	608.9	945.4	1416.0	1540.6	1900.2	1759.7	1547.9
65°	409.3	402.8	414.3	486.4	519.6	594.5	745.8	836.6	1032.6	871.9	623.3
67.5°	265.2	267.3	278.9	361.7	445.3	456.1	459.0	451.8	452.5	249.3	156.4
70°	159.3	162.9	159.3	204.7	318.5	327.2	299.0	291.8	227.7	59.1	58.4
72.5°	94.4	89.4	80.0	87.9	132.6	158.5	142.7	142.0	89.4	34.6	34.6
75°	39.6	36.0	29.5	26.7	35.3	33.9	33.9	30.3	23.8	23.1	21.6
77.5°	7.9	7.9	5.8	6.5	8.6	10.1	12.3	12.3	14.4	14.4	13.7
80°	0.0	0.7	2.2	4.3	6.5	9.4	10.8	10.8	12.3	12.3	10.1
82.5°	0.0	0.7	2.2	4.3	5.8	8.6	10.8	10.8	12.3	13.0	10.8
85°	0.0	0.7	2.2	3.6	5.8	7.2	7.2	6.5	5.0	4.3	2.9
87.5°	0.0	0.0	0.7	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3	1389.3
2.5°	1395.8	1395.1	1377.8	1349.7	1343.2	1319.4	1316.5	1302.1	1310.1	1283.4	1280.5
5°	1384.3	1375.6	1354.7	1336.7	1284.1	1246.6	1217.1	1181.1	1160.2	1163.8	1150.1
7.5°	1400.9	1378.5	1341.8	1279.1	1214.9	1149.4	1114.1	1040.5	1013.9	974.3	968.5
10°	1383.6	1367.0	1310.1	1206.3	1117.7	1023.3	940.4	859.0	797.0	770.3	764.6
12.5°	1382.1	1353.3	1258.2	1142.9	1014.6	879.1	758.8	657.2	595.9	561.3	553.4
15°	1359.8	1325.2	1199.8	1044.9	867.6	699.0	567.8	469.8	423.0	402.8	408.6
17.5°	1361.9	1310.1	1141.4	941.1	722.8	513.1	387.7	337.2	325.0	330.0	330.0
20°	1359.8	1276.2	1070.8	821.5	553.4	356.0	284.6	266.6	274.5	290.4	286.8
22.5°	1348.2	1260.3	1006.0	695.4	407.1	263.7	228.4	229.2	241.4	260.9	265.2
25°	1356.9	1225.0	923.8	567.8	296.9	210.4	198.2	203.2	216.2	230.6	233.5
27.5°	1350.4	1199.8	838.1	441.0	216.9	180.9	180.2	185.9	191.7	202.5	202.5
30°	1357.6	1176.7	753.7	327.9	178.7	165.7	162.9	167.2	172.9	175.1	174.4
32.5°	1384.3	1159.4	656.5	245.0	157.8	151.3	151.3	151.3	150.6	153.5	154.2
35°	1442.6	1162.3	570.7	189.5	144.1	139.1	136.9	134.0	132.6	134.0	134.8
37.5°	1506.1	1160.9	482.1	161.4	134.0	129.7	124.7	120.3	119.6	121.1	118.9
40°	1534.2	1174.6	399.9	144.8	124.7	119.6	111.7	108.1	108.8	110.3	108.8
42.5°	1572.4	1178.9	346.6	131.9	116.0	108.1	103.0	98.7	98.0	100.2	99.4
45°	1571.6	1154.4	290.4	124.7	108.1	99.4	93.0	89.4	89.4	90.8	91.5
47.5°	1617.8	1150.8	249.3	118.2	102.3	93.7	85.8	82.9	82.1	82.1	80.7
50°	1725.1	1201.2	217.6	111.0	95.1	87.2	80.7	77.1	74.2	72.8	72.1
52.5°	1934.8	1358.3	193.1	102.3	87.2	80.7	74.9	72.1	68.5	64.9	64.1
54°	2138.0	1520.5	191.7	95.1	80.7	76.4	71.3	69.9	65.6	60.5	59.1
55°	2229.5	1614.9	196.7	89.4	76.4	73.5	69.2	67.7	63.4	57.6	56.9
57.5°	2305.2	1651.6	193.8	74.2	69.2	68.5	64.9	62.7	57.6	49.7	48.3
60°	1855.5	1248.8	139.1	65.6	63.4	62.0	59.1	57.6	51.2	42.5	41.8
62.5°	1172.4	718.4	88.6	57.6	55.5	53.3	49.7	48.3	42.5	33.9	31.7
65°	499.4	297.6	59.8	51.2	47.6	44.0	41.1	38.9	33.9	25.2	24.5
67.5°	129.7	105.9	49.7	44.7	39.6	34.6	32.4	28.8	23.1	17.3	16.6
70°	58.4	53.3	41.8	37.5	31.7	26.7	23.8	20.2	15.1	11.5	10.8
72.5°	34.6	33.9	31.7	28.1	23.8	20.2	17.3	13.7	10.1	6.5	6.5
75°	21.6	20.9	21.6	19.5	16.6	15.1	13.0	9.4	5.8	2.9	2.9
77.5°	13.0	13.0	13.0	12.3	11.5	11.5	9.4	5.8	2.9	0.7	0.7
80°	10.1	10.1	10.8	10.1	10.1	10.1	7.9	4.3	1.4	0.0	0.0
82.5°	10.1	10.8	12.3	11.5	10.1	8.6	7.2	4.3	1.4	0.0	0.0
85°	2.9	2.2	3.6	5.0	7.2	6.5	5.0	3.6	1.4	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	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)