

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: P646723

Luminaire Tested: **GALN-SA1C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3257.3 lumens
Efficiency: N/A
Efficacy: 57.1 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

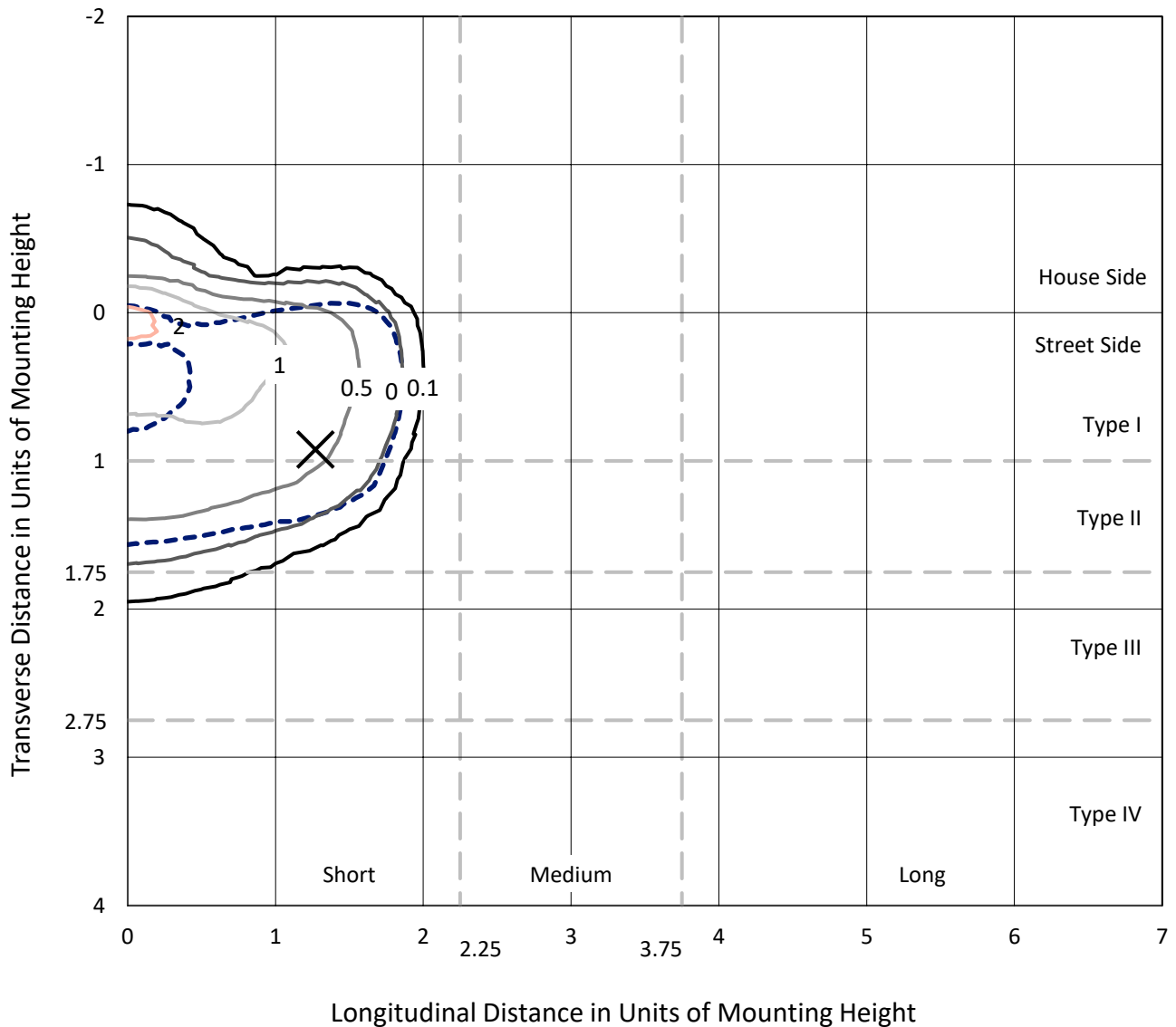
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

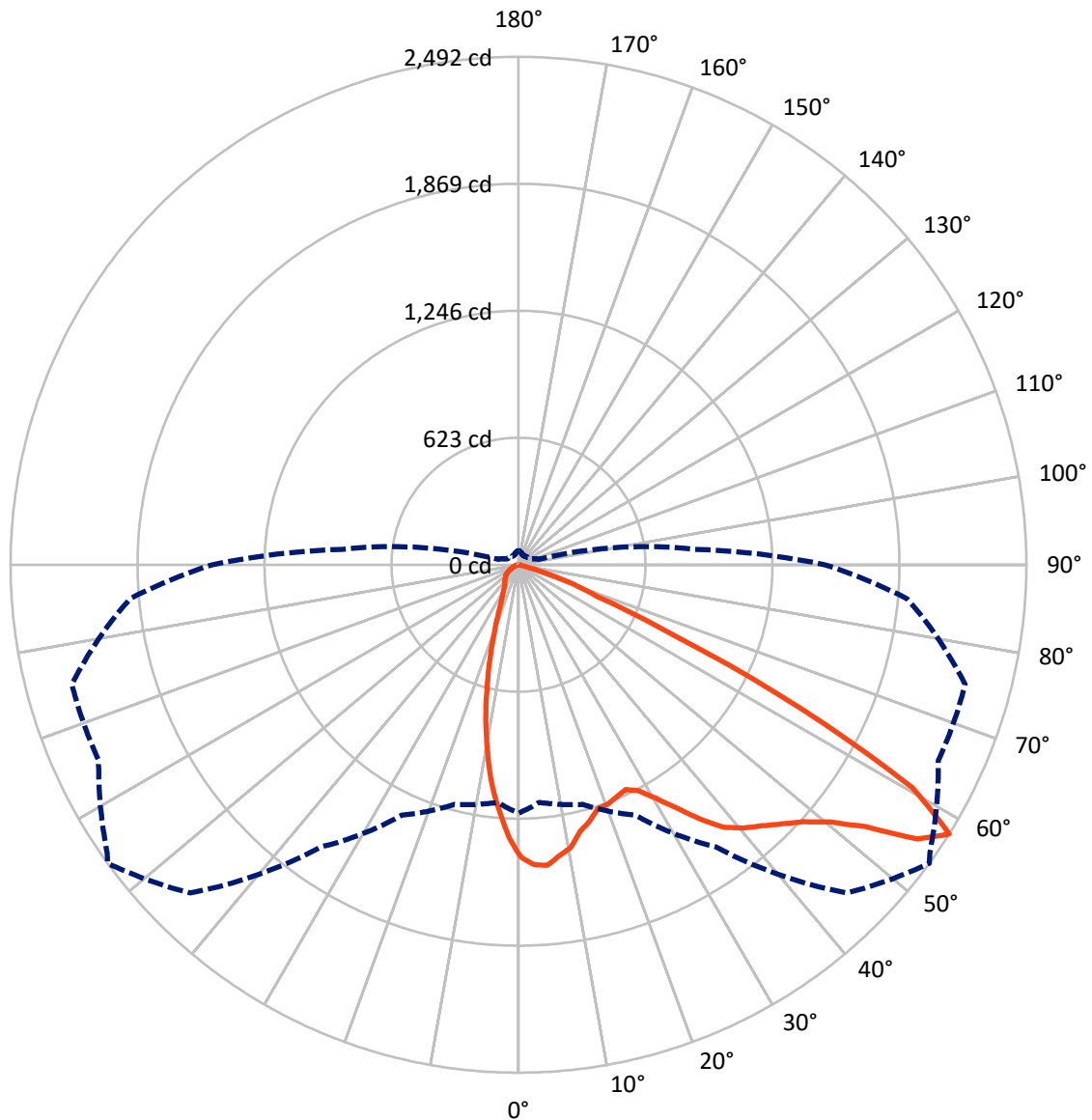
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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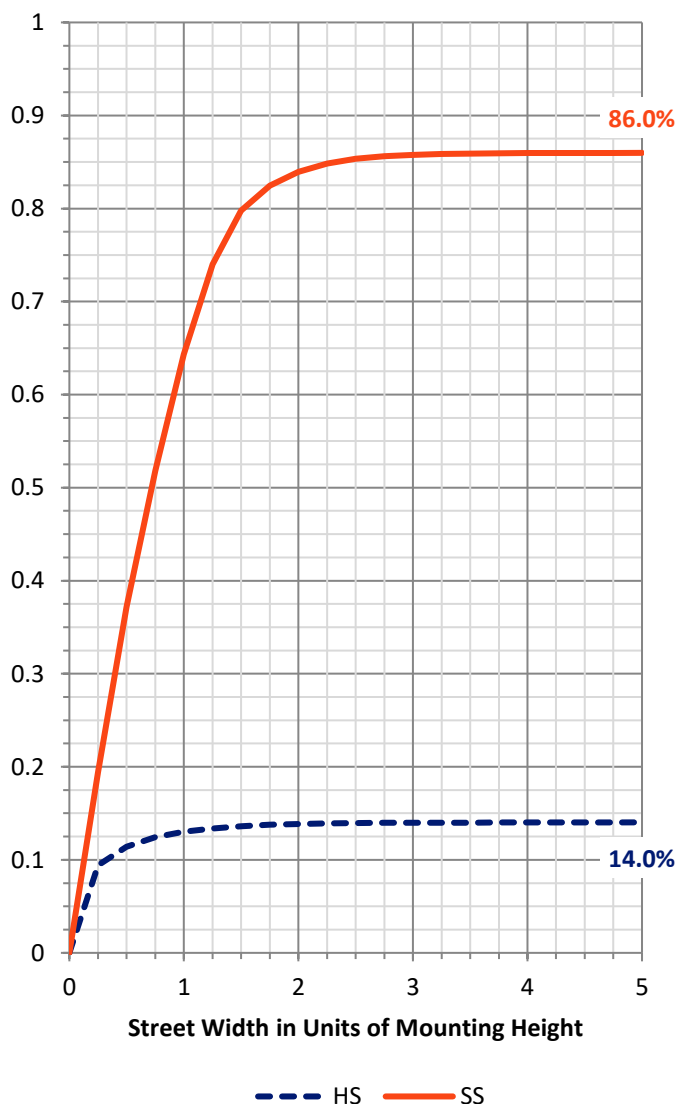
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.3	0.0	460.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2797.0	0.0	2797.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	3257.3	0.0	3257.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.7
10°-20°	256.4	7.9
20°-30°	339.7	10.4
30°-40°	493.7	15.2
40°-50°	732.1	22.5
50°-60°	915.5	28.1
60°-70°	361.1	11.1
70°-80°	36.0	1.1
80°-90°	2.8	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°	3257.3	100.0
0°-180°	3257.3	100.0

Coefficient of Utilization

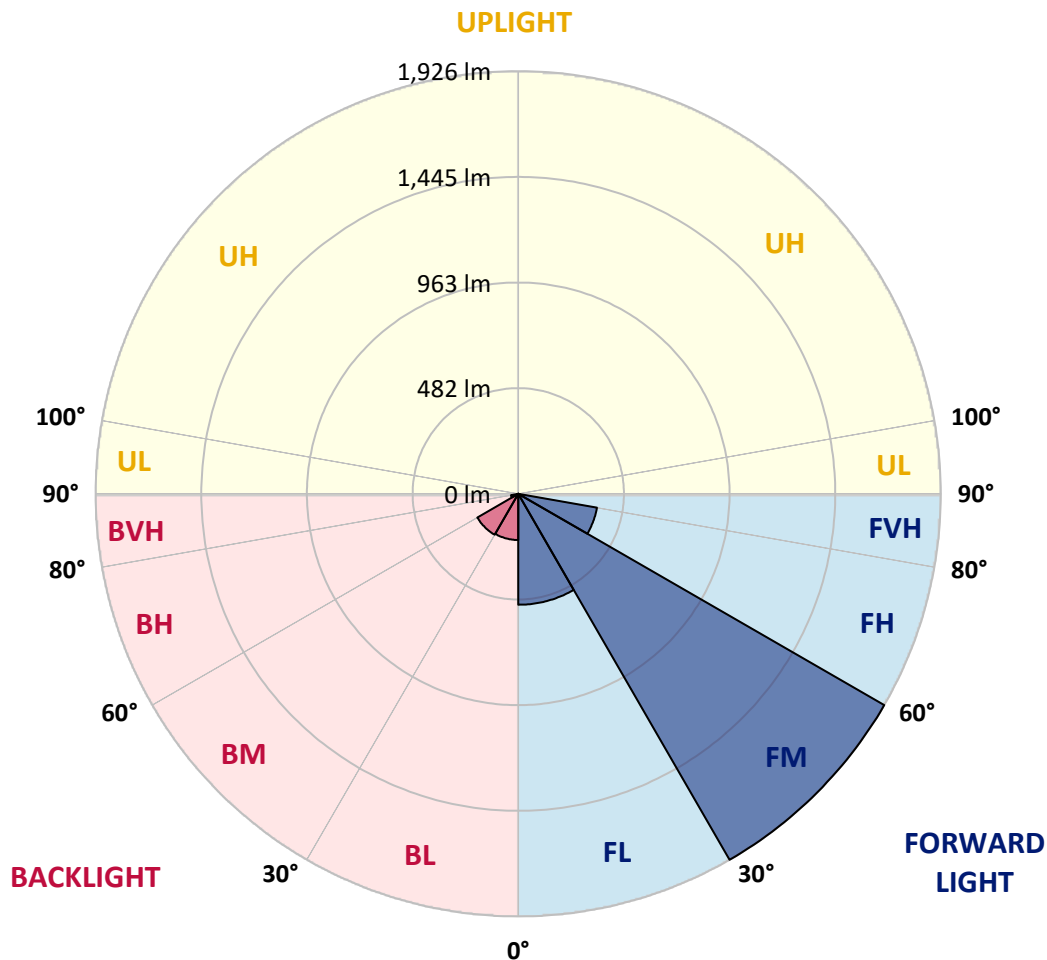


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.6	15.5			
FM (30°-60°)	1926.0	59.1			
FH (60°-80°)	364.1	11.2			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	210.5	6.5	B1/500		
BM (30°-60°)	215.3	6.6	B0/220		
BH (60°-80°)	33.0	1.0	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			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°	54°	55°	65°	75°	85°
0°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1518.5	1502.7	1503.9	1498.5	1491.2	1496.6	1473.1	1478.5	1477.9	1445.8	1424.6
5°	1480.3	1497.3	1479.7	1494.2	1480.3	1495.5	1480.9	1470.0	1452.5	1428.8	1389.4
7.5°	1415.5	1399.1	1404.0	1422.2	1425.2	1459.1	1441.0	1454.9	1447.6	1400.9	1347.1
10°	1285.3	1281.6	1305.9	1330.1	1359.8	1396.1	1410.0	1402.2	1396.7	1379.2	1307.1
12.5°	1185.3	1195.6	1195.0	1235.0	1285.3	1305.9	1342.2	1341.0	1371.3	1338.5	1269.6
15°	1090.2	1095.7	1121.1	1146.0	1201.7	1260.5	1305.3	1311.3	1347.6	1324.7	1240.4
17.5°	1032.1	1024.2	1044.2	1073.9	1130.8	1207.8	1257.4	1272.0	1321.6	1316.8	1207.2
20°	974.5	974.5	990.9	1026.0	1078.1	1164.7	1253.2	1249.0	1321.6	1307.7	1171.4
22.5°	955.2	964.9	969.1	995.7	1057.5	1132.1	1235.0	1242.9	1331.9	1303.5	1155.6
25°	981.8	969.1	970.3	991.5	1049.7	1116.2	1221.6	1239.3	1350.7	1324.7	1142.9
27.5°	986.0	998.8	1002.4	1017.0	1055.7	1121.1	1255.0	1290.7	1397.3	1374.3	1146.5
30°	1023.0	1035.8	1035.1	1059.9	1086.6	1160.5	1329.5	1336.7	1493.7	1436.7	1168.9
32.5°	1067.9	1081.2	1085.4	1114.4	1135.7	1232.6	1420.4	1439.2	1586.3	1534.8	1227.7
35°	1123.5	1118.7	1138.1	1167.1	1212.6	1338.0	1531.2	1562.7	1686.3	1662.0	1288.3
37.5°	1193.2	1187.2	1205.9	1253.2	1315.0	1462.7	1633.6	1654.2	1758.9	1780.2	1400.3
40°	1242.2	1244.7	1301.7	1365.2	1430.6	1581.4	1698.3	1718.4	1809.8	1890.3	1485.1
42.5°	1324.1	1339.2	1407.6	1485.1	1553.6	1670.5	1751.0	1770.4	1833.4	1978.8	1599.6
45°	1442.8	1436.1	1511.8	1598.4	1674.1	1763.2	1813.4	1806.8	1847.3	2066.6	1671.7
47.5°	1595.4	1596.6	1646.9	1720.8	1799.5	1843.7	1883.1	1859.5	1876.5	2159.3	1768.0
50°	1699.6	1708.7	1749.2	1824.9	1864.3	1932.1	1982.4	1967.9	1962.4	2215.0	1828.5
52.5°	1726.2	1753.5	1775.3	1869.7	1961.8	2069.0	2133.2	2164.1	2067.2	2233.7	1905.5
55°	1525.1	1549.3	1626.3	1755.9	1998.8	2285.9	2374.3	2374.9	2204.1	2317.4	1959.4
57.5°	1219.3	1170.2	1217.4	1354.9	1689.9	2276.8	2491.8	2463.3	2272.6	2268.3	1912.8
60°	843.1	831.0	834.1	888.5	1169.6	1811.0	2220.4	2257.4	2092.6	1966.0	1514.2
62.5°	668.1	657.8	644.5	638.4	726.2	1128.4	1566.3	1618.4	1463.3	1275.0	897.6
65°	523.3	517.2	519.1	543.3	542.7	640.2	856.4	835.2	668.7	494.2	282.3
67.5°	353.1	362.2	369.5	442.8	480.3	445.8	413.7	401.6	217.4	91.5	62.4
70°	198.6	199.9	207.7	276.8	364.6	345.9	285.2	285.2	108.4	33.3	35.7
72.5°	108.4	104.8	97.5	119.3	162.3	164.7	127.2	110.9	32.1	21.8	20.0
75°	52.7	52.1	44.8	37.0	35.2	29.0	22.4	20.6	14.6	13.9	12.1
77.5°	10.9	10.3	5.5	5.5	6.0	6.7	8.5	8.5	10.3	10.3	8.5
80°	0.0	0.0	0.6	2.4	4.2	6.0	7.3	7.3	8.5	8.5	6.7
82.5°	0.0	0.0	0.6	1.8	3.6	5.5	6.7	7.3	8.5	9.1	7.3
85°	0.0	0.0	0.0	1.2	3.1	4.2	3.6	3.6	3.1	2.4	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1413.7	1412.5	1384.6	1368.8	1340.4	1315.5	1295.6	1281.1	1281.1	1272.0	1263.4
5°	1373.7	1363.4	1304.0	1265.9	1212.0	1172.0	1144.7	1123.5	1090.2	1099.3	1063.6
7.5°	1324.1	1298.0	1219.3	1161.1	1086.6	1029.6	971.5	920.0	870.4	848.0	860.0
10°	1270.7	1225.3	1119.3	1027.2	934.6	830.4	762.6	680.2	629.3	626.2	612.9
12.5°	1214.4	1162.9	1033.9	906.7	785.0	659.6	556.0	479.1	444.6	406.5	413.7
15°	1172.0	1095.7	938.8	785.6	623.9	497.3	393.1	333.7	301.1	292.0	288.9
17.5°	1126.0	1044.2	841.9	656.5	489.4	358.0	282.8	254.4	241.6	241.6	239.8
20°	1078.1	986.0	745.6	536.7	367.1	267.1	226.5	217.4	216.8	216.3	216.3
22.5°	1046.6	919.4	658.3	426.4	276.8	213.8	196.8	193.2	195.7	202.9	202.9
25°	1013.3	855.3	562.1	328.9	214.4	183.5	173.8	176.3	182.3	188.9	186.6
27.5°	979.4	813.5	471.2	258.0	175.6	160.5	156.8	162.3	169.0	175.1	173.2
30°	971.5	768.6	385.2	195.7	150.8	139.9	142.3	147.2	153.9	156.3	158.7
32.5°	983.6	733.5	315.5	160.5	131.5	128.4	128.4	130.8	135.1	140.5	138.7
35°	1018.1	713.5	249.5	139.3	120.5	117.5	116.9	119.3	121.8	123.6	121.8
37.5°	1070.8	697.7	204.1	123.6	113.3	108.4	107.2	106.6	109.0	109.6	110.9
40°	1138.1	706.3	173.2	113.8	106.0	100.5	96.9	96.9	96.9	98.7	99.4
42.5°	1210.8	717.8	149.6	108.4	99.4	92.7	89.0	87.9	89.0	91.5	90.8
45°	1287.1	740.2	134.4	99.9	93.3	84.8	79.9	78.8	81.7	86.6	86.0
47.5°	1358.6	772.3	122.9	94.5	87.2	79.3	73.3	72.1	77.5	84.2	84.8
50°	1430.0	827.9	118.7	90.3	83.0	73.9	68.4	67.3	73.3	81.7	83.5
52.5°	1512.4	887.9	115.6	84.8	78.1	69.7	63.6	62.4	69.1	79.9	80.6
55°	1566.3	938.8	113.3	75.1	69.1	63.0	58.2	57.6	64.8	74.5	76.9
57.5°	1503.3	868.0	104.8	65.4	58.7	55.7	51.5	51.5	57.6	66.6	68.4
60°	1139.9	571.2	74.5	52.7	49.6	47.8	46.0	46.0	50.9	57.6	58.2
62.5°	667.5	307.7	47.8	42.4	42.4	40.6	37.6	37.6	42.4	46.0	46.7
65°	198.1	98.7	38.8	36.3	35.7	32.7	29.7	29.0	32.7	34.5	33.9
67.5°	56.9	45.4	32.1	30.3	29.7	24.8	23.0	22.4	23.0	21.8	21.2
70°	33.9	30.9	24.8	25.4	22.4	18.2	16.4	15.7	14.6	12.7	11.5
72.5°	18.8	18.8	18.2	19.4	15.7	12.1	10.3	8.5	6.7	5.5	4.9
75°	11.5	12.1	12.7	13.3	10.3	7.9	6.7	4.2	2.4	1.2	1.2
77.5°	7.9	8.5	9.1	9.7	8.5	7.3	5.5	3.1	0.6	0.0	0.0
80°	6.0	6.7	7.9	8.5	9.1	9.7	7.3	3.1	0.6	0.0	0.0
82.5°	6.7	7.3	9.1	8.5	8.5	8.5	6.7	3.1	0.6	0.0	0.0
85°	1.2	1.8	3.1	3.1	4.2	5.5	4.2	1.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)