

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: P646719

Luminaire Tested: **GALN-SA1C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646719
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-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3251 lumens
Efficiency: N/A
Efficacy: 57.0 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

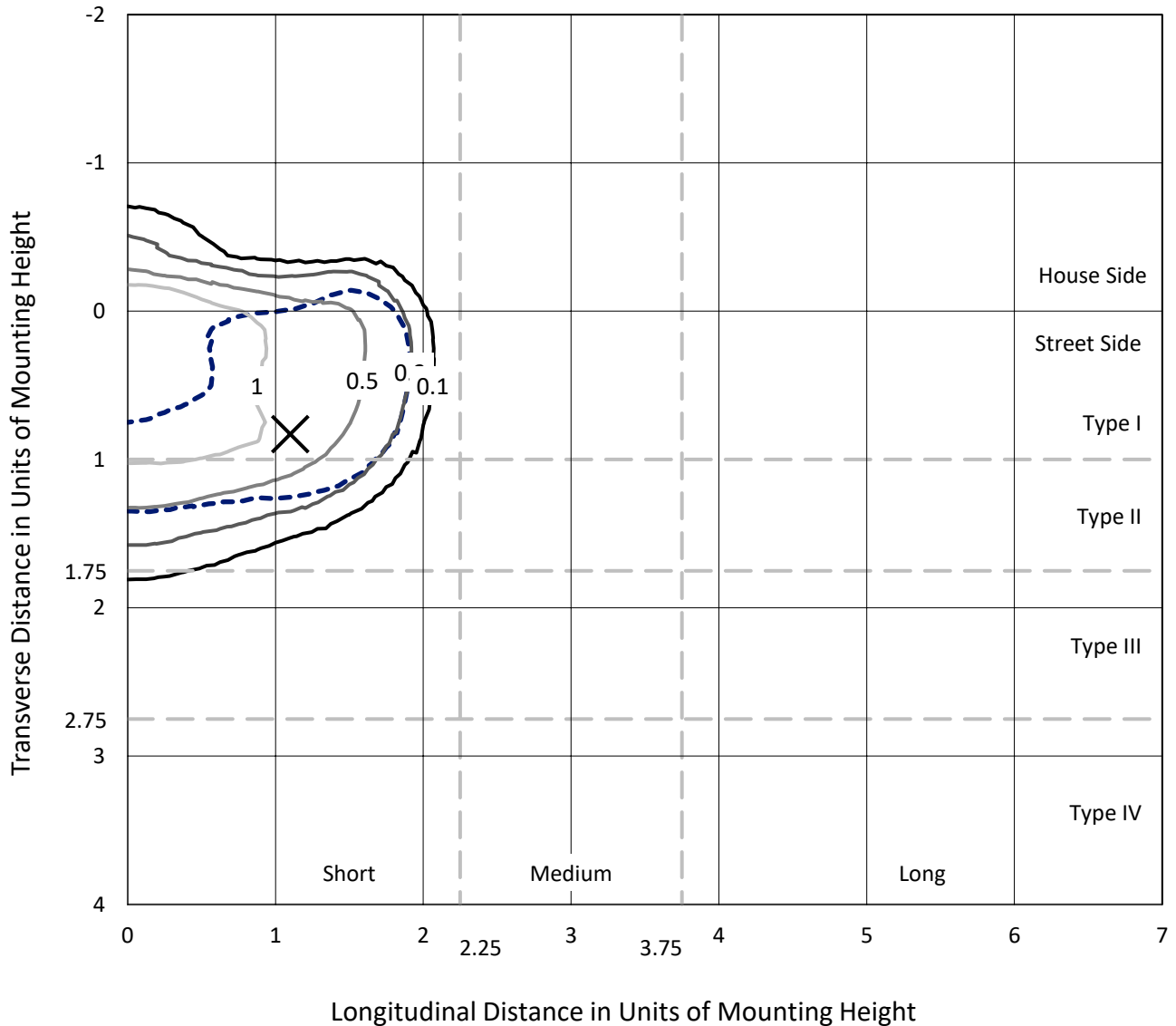
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

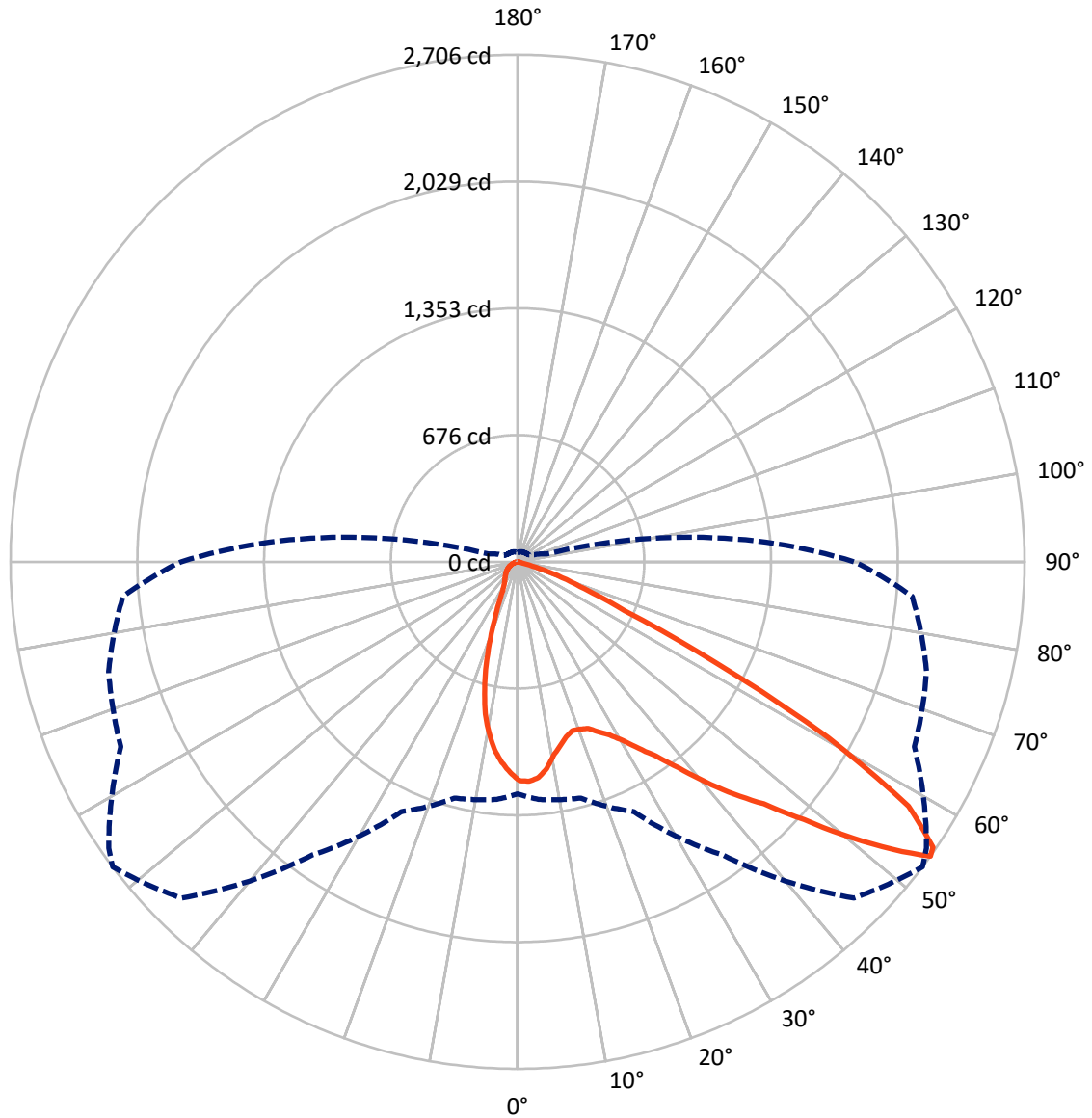
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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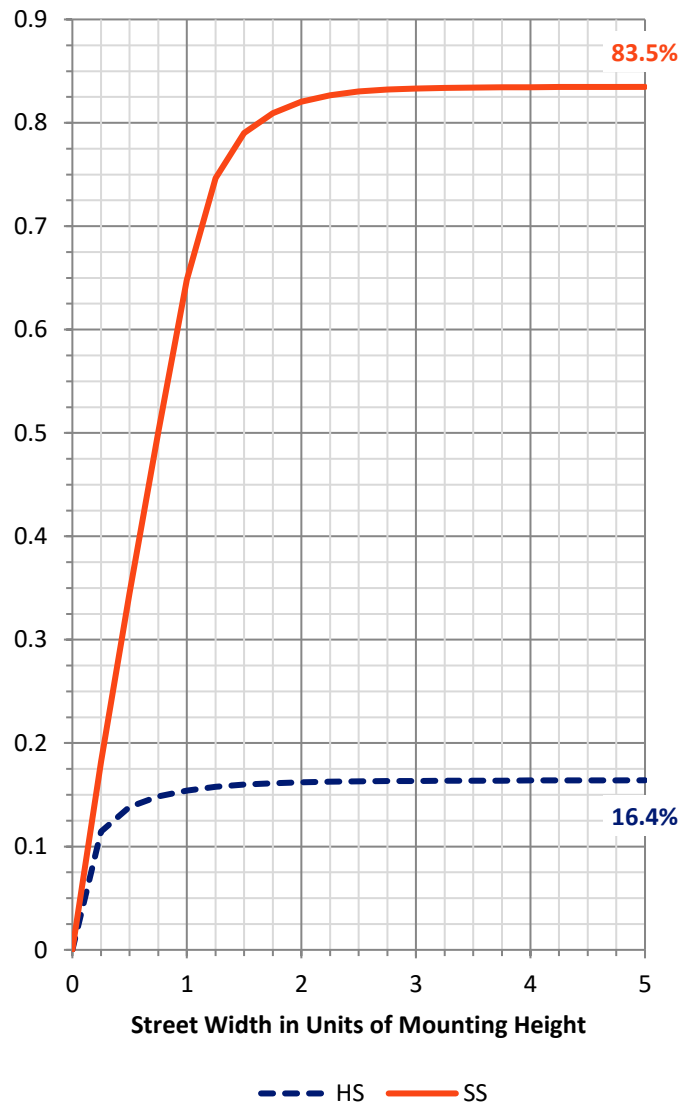
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	537.9	0.0	537.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2713.1	0.0	2713.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	3251.0	0.0	3251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.1
10°-20°	229.7	7.1
20°-30°	326.4	10.0
30°-40°	503.8	15.5
40°-50°	789.9	24.3
50°-60°	917.6	28.2
60°-70°	346.7	10.7
70°-80°	33.0	1.0
80°-90°	3.7	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°	3251.0	100.0
0°-180°	3251.0	100.0

Coefficient of Utilization



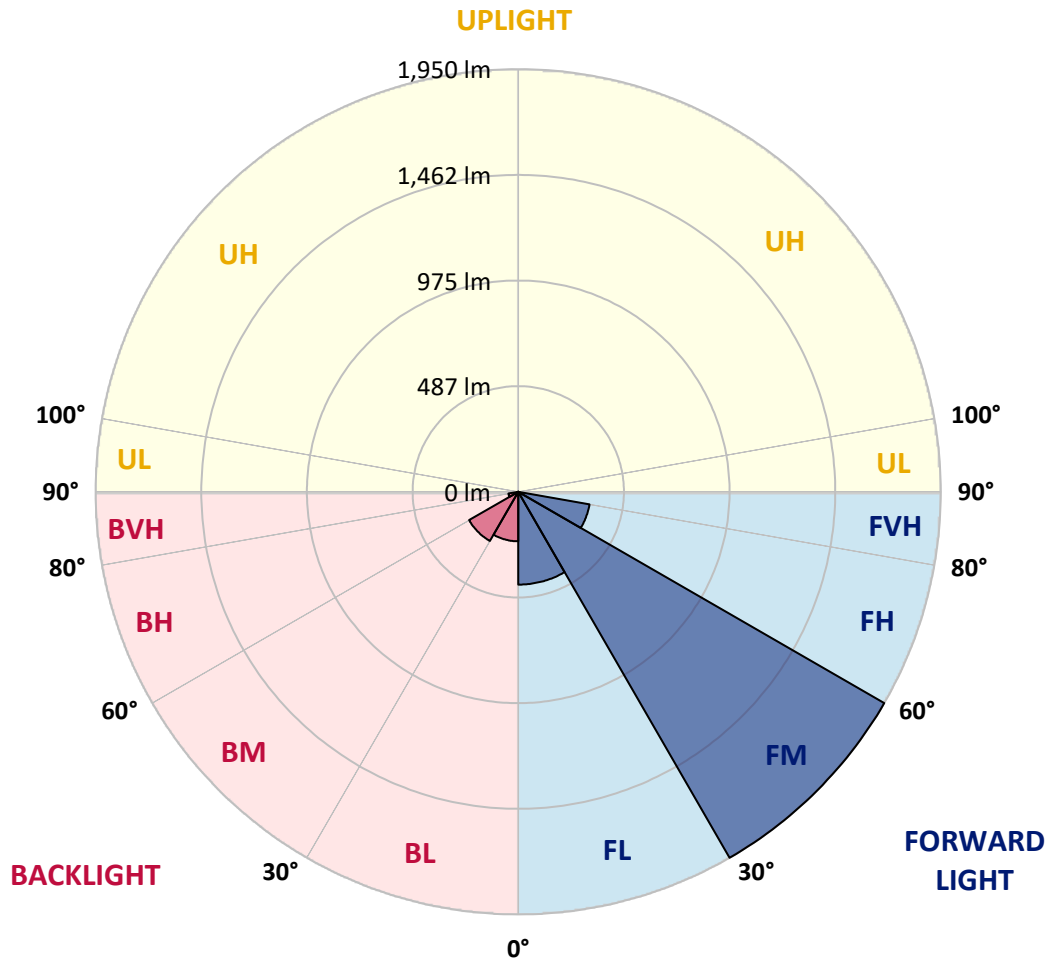
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.1	13.2			
FM (30°-60°)	1949.5	60.0			
FH (60°-80°)	333.6	10.3			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	228.3	7.0	B1/500		
BM (30°-60°)	261.8	8.1	B1/1000		
BH (60°-80°)	46.1	1.4	B0/110		G0/110
BVH (80°-90°)	1.8	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°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1161.7	1151.3	1161.7	1162.8	1170.1	1176.8	1172.5	1182.3	1176.8	1170.7	1168.9
5°	1067.8	1081.7	1082.3	1104.1	1099.3	1139.3	1156.8	1151.9	1181.6	1179.8	1175.6
7.5°	983.6	978.1	985.4	1010.9	1043.0	1089.0	1114.4	1113.8	1156.2	1186.5	1183.4
10°	905.5	904.8	920.0	940.0	967.2	1015.7	1050.8	1068.4	1134.4	1180.5	1187.1
12.5°	852.8	850.3	866.7	883.1	926.1	963.6	1008.4	1016.9	1092.6	1159.2	1170.1
15°	818.2	823.7	824.9	856.4	883.7	933.3	968.4	986.0	1073.3	1142.2	1184.1
17.5°	812.2	819.5	820.0	846.1	875.2	917.0	947.8	971.5	1056.9	1150.8	1184.7
20°	824.3	820.0	823.7	840.1	868.5	908.5	953.3	961.2	1051.4	1155.0	1191.3
22.5°	858.8	857.6	848.5	861.8	881.8	923.6	966.0	978.1	1067.2	1176.8	1196.8
25°	897.0	903.7	895.1	893.3	907.3	948.4	1004.8	1020.6	1119.8	1216.2	1213.7
27.5°	968.4	961.8	961.8	953.3	949.7	969.7	1046.6	1072.6	1178.6	1267.1	1233.1
30°	1036.9	1044.1	1038.7	1041.7	1017.5	1015.7	1105.9	1138.0	1282.8	1344.6	1274.3
32.5°	1145.3	1135.6	1144.7	1136.8	1104.7	1072.0	1186.5	1219.8	1408.8	1433.6	1336.1
35°	1235.6	1231.3	1270.1	1268.9	1216.8	1184.7	1271.9	1321.5	1496.5	1540.2	1408.8
37.5°	1363.9	1356.1	1400.3	1421.5	1374.9	1327.0	1394.2	1451.8	1578.4	1625.6	1483.2
40°	1496.0	1516.0	1575.3	1610.5	1560.8	1497.2	1543.8	1561.4	1632.9	1681.3	1534.1
42.5°	1663.2	1692.2	1752.7	1783.0	1778.8	1709.8	1695.8	1695.3	1672.3	1665.6	1571.7
45°	1823.6	1812.7	1906.0	1972.1	2025.3	2005.3	1842.4	1824.2	1734.6	1689.2	1581.3
47.5°	1893.9	1890.2	1953.8	2071.3	2253.1	2277.9	2055.6	1985.4	1840.0	1788.5	1634.0
50°	1803.0	1821.8	1884.8	2015.1	2293.6	2483.2	2317.3	2222.8	1962.9	1909.7	1758.9
52.5°	1506.3	1519.0	1578.9	1744.3	2155.5	2604.3	2568.0	2513.5	2188.9	2100.4	1976.3
54°	1238.5	1272.5	1305.2	1471.2	1909.7	2537.1	2705.5	2663.7	2336.0	2259.1	2113.2
55°	1078.7	1098.6	1122.3	1287.6	1739.4	2423.2	2689.8	2693.4	2434.7	2308.8	2205.2
57.5°	787.9	801.9	777.7	851.0	1194.4	1967.8	2460.2	2558.3	2568.0	2383.3	2261.5
60°	602.0	608.1	580.8	592.3	742.5	1350.6	1903.0	2021.1	2316.7	2082.9	1915.7
62.5°	467.0	468.2	467.6	487.6	511.8	794.6	1190.1	1294.9	1597.1	1479.0	1301.0
65°	344.1	338.6	348.3	408.8	436.7	499.6	626.9	703.1	867.9	732.8	523.9
67.5°	222.9	224.7	234.4	304.0	374.3	383.4	385.8	379.8	380.4	209.5	131.5
70°	133.8	136.9	133.8	172.0	267.7	275.0	251.3	245.3	191.4	49.6	49.1
72.5°	79.3	75.1	67.3	73.9	111.4	133.3	120.0	119.3	75.1	29.0	29.0
75°	33.3	30.3	24.8	22.4	29.7	28.5	28.5	25.4	20.0	19.4	18.2
77.5°	6.7	6.7	4.9	5.5	7.3	8.5	10.3	10.3	12.1	12.1	11.5
80°	0.0	0.6	1.8	3.6	5.5	7.9	9.1	9.1	10.3	10.3	8.5
82.5°	0.0	0.6	1.8	3.6	4.9	7.3	9.1	9.1	10.3	10.9	9.1
85°	0.0	0.6	1.8	3.1	4.9	6.0	6.0	5.5	4.2	3.6	2.4
87.5°	0.0	0.0	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1173.2	1172.5	1158.1	1134.4	1128.9	1109.0	1106.5	1094.4	1101.1	1078.7	1076.2
5°	1163.5	1156.2	1138.6	1123.5	1079.3	1047.8	1023.0	992.7	975.1	978.1	966.6
7.5°	1177.4	1158.6	1127.8	1075.1	1021.1	966.0	936.3	874.5	852.1	818.9	814.0
10°	1162.8	1148.9	1101.1	1013.9	939.4	860.0	790.4	721.9	669.9	647.5	642.6
12.5°	1161.7	1137.5	1057.4	960.6	852.8	738.9	637.8	552.3	500.9	471.8	465.2
15°	1142.9	1113.8	1008.4	878.2	729.2	587.5	477.2	394.9	355.6	338.6	343.4
17.5°	1144.7	1101.1	959.3	791.0	607.5	431.2	325.8	283.4	273.2	277.4	277.4
20°	1142.9	1072.6	900.0	690.4	465.2	299.2	239.2	224.1	230.8	244.1	241.1
22.5°	1133.2	1059.3	845.5	584.4	342.2	221.7	192.0	192.6	202.9	219.2	222.9
25°	1140.4	1029.6	776.4	477.2	249.5	176.9	166.5	170.8	181.7	193.8	196.2
27.5°	1135.0	1008.4	704.4	370.7	182.3	152.1	151.4	156.3	161.1	170.2	170.2
30°	1141.1	989.0	633.5	275.5	150.2	139.3	136.9	140.5	145.3	147.2	146.6
32.5°	1163.5	974.5	551.8	205.9	132.6	127.2	127.2	127.2	126.6	129.0	129.6
35°	1212.6	976.9	479.7	159.3	121.1	116.9	115.1	112.7	111.4	112.7	113.2
37.5°	1265.8	975.7	405.2	135.7	112.7	109.0	104.8	101.2	100.5	101.7	99.9
40°	1289.4	987.2	336.1	121.8	104.8	100.5	93.9	90.8	91.5	92.6	91.5
42.5°	1321.5	990.9	291.4	110.9	97.5	90.8	86.6	83.0	82.4	84.2	83.5
45°	1320.9	970.3	244.1	104.8	90.8	83.5	78.1	75.1	75.1	76.3	76.9
47.5°	1359.7	967.2	209.5	99.4	86.0	78.8	72.0	69.7	69.1	69.1	67.8
50°	1450.0	1009.6	182.9	93.3	79.9	73.3	67.8	64.8	62.4	61.2	60.6
52.5°	1626.2	1141.7	162.3	86.0	73.3	67.8	63.0	60.6	57.6	54.5	53.9
54°	1797.0	1277.9	161.1	79.9	67.8	64.2	60.0	58.7	55.1	50.9	49.6
55°	1873.9	1357.3	165.4	75.1	64.2	61.8	58.2	56.9	53.3	48.5	47.8
57.5°	1937.5	1388.2	162.9	62.4	58.2	57.6	54.5	52.7	48.5	41.8	40.6
60°	1559.6	1049.6	116.9	55.1	53.3	52.1	49.6	48.5	43.0	35.7	35.2
62.5°	985.4	603.8	74.5	48.5	46.7	44.8	41.8	40.6	35.7	28.5	26.6
65°	419.7	250.2	50.3	43.0	40.0	37.0	34.5	32.7	28.5	21.2	20.6
67.5°	109.0	89.0	41.8	37.6	33.3	29.0	27.2	24.2	19.4	14.6	13.9
70°	49.1	44.8	35.2	31.5	26.6	22.4	20.0	17.0	12.7	9.7	9.1
72.5°	29.0	28.5	26.6	23.6	20.0	17.0	14.6	11.5	8.5	5.5	5.5
75°	18.2	17.5	18.2	16.4	13.9	12.7	10.9	7.9	4.9	2.4	2.4
77.5°	10.9	10.9	10.9	10.3	9.7	9.7	7.9	4.9	2.4	0.6	0.6
80°	8.5	8.5	9.1	8.5	8.5	8.5	6.7	3.6	1.2	0.0	0.0
82.5°	8.5	9.1	10.3	9.7	8.5	7.3	6.0	3.6	1.2	0.0	0.0
85°	2.4	1.8	3.1	4.2	6.0	5.5	4.2	3.1	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	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)