

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: P651670

Luminaire Tested: **GALN-SA1A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298.4 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

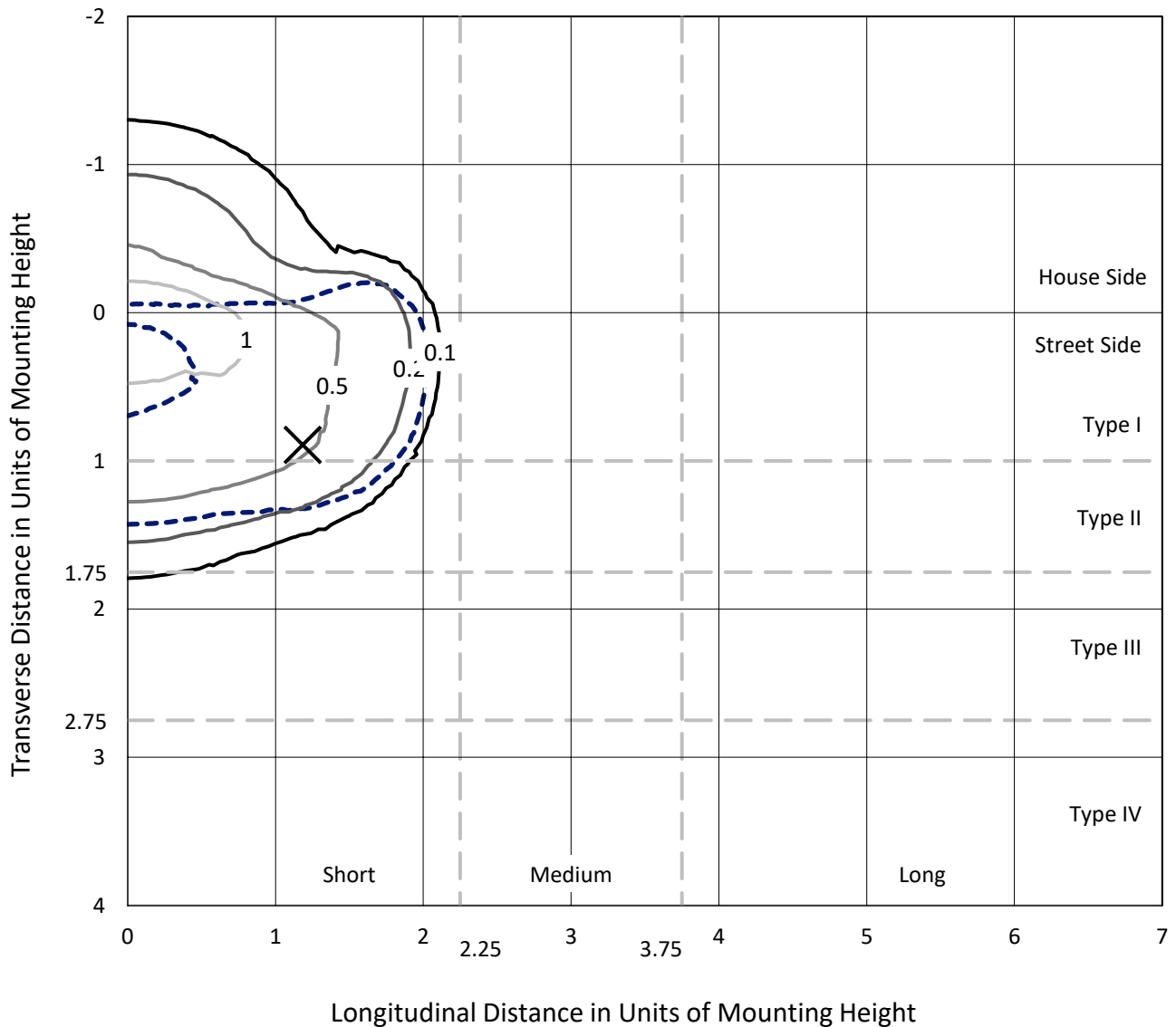
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

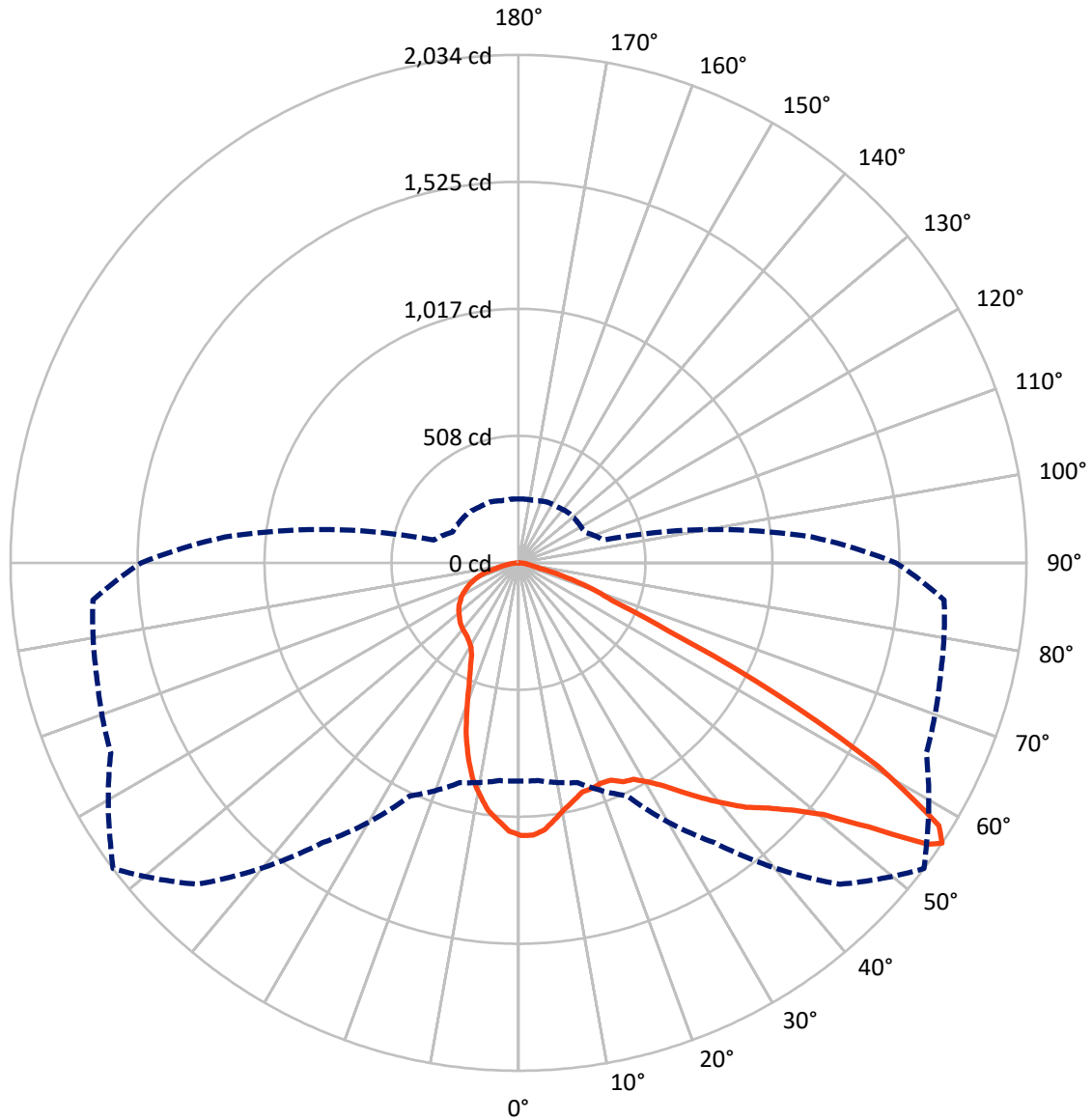
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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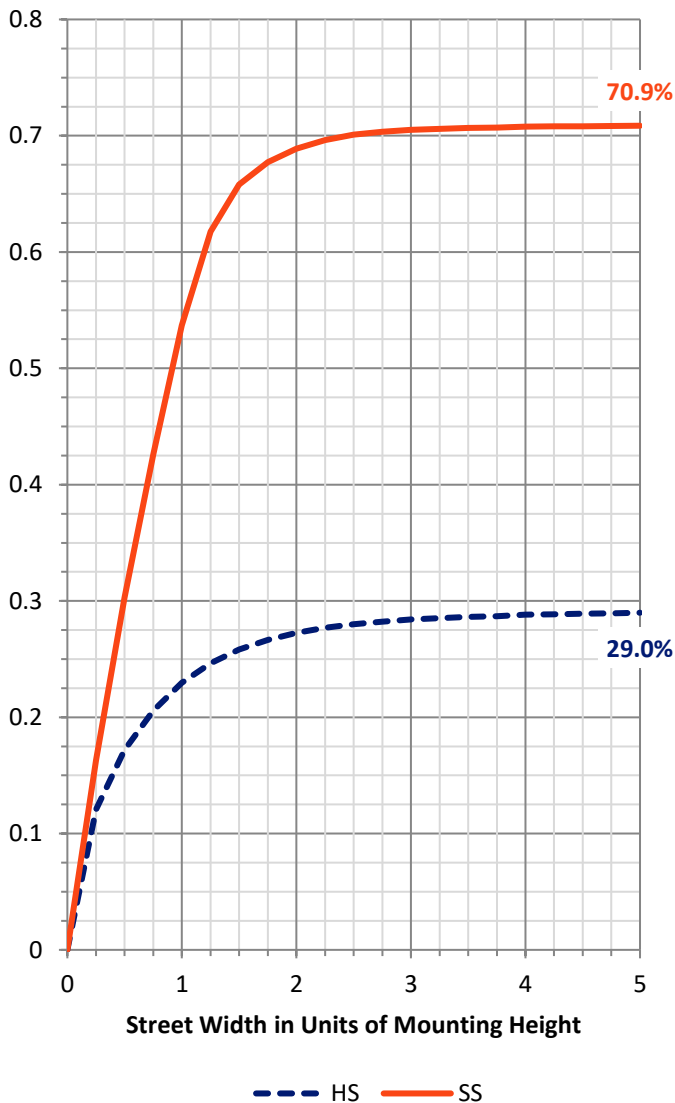
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.5	0.0	962.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2335.8	0.0	2335.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	3298.4	0.0	3298.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.9
10°-20°	241.3	7.3
20°-30°	355.8	10.8
30°-40°	508.4	15.4
40°-50°	699.7	21.2
50°-60°	826.8	25.1
60°-70°	440.6	13.4
70°-80°	111.8	3.4
80°-90°	17.4	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°	3298.4	100.0
0°-180°	3298.4	100.0

Coefficient of Utilization

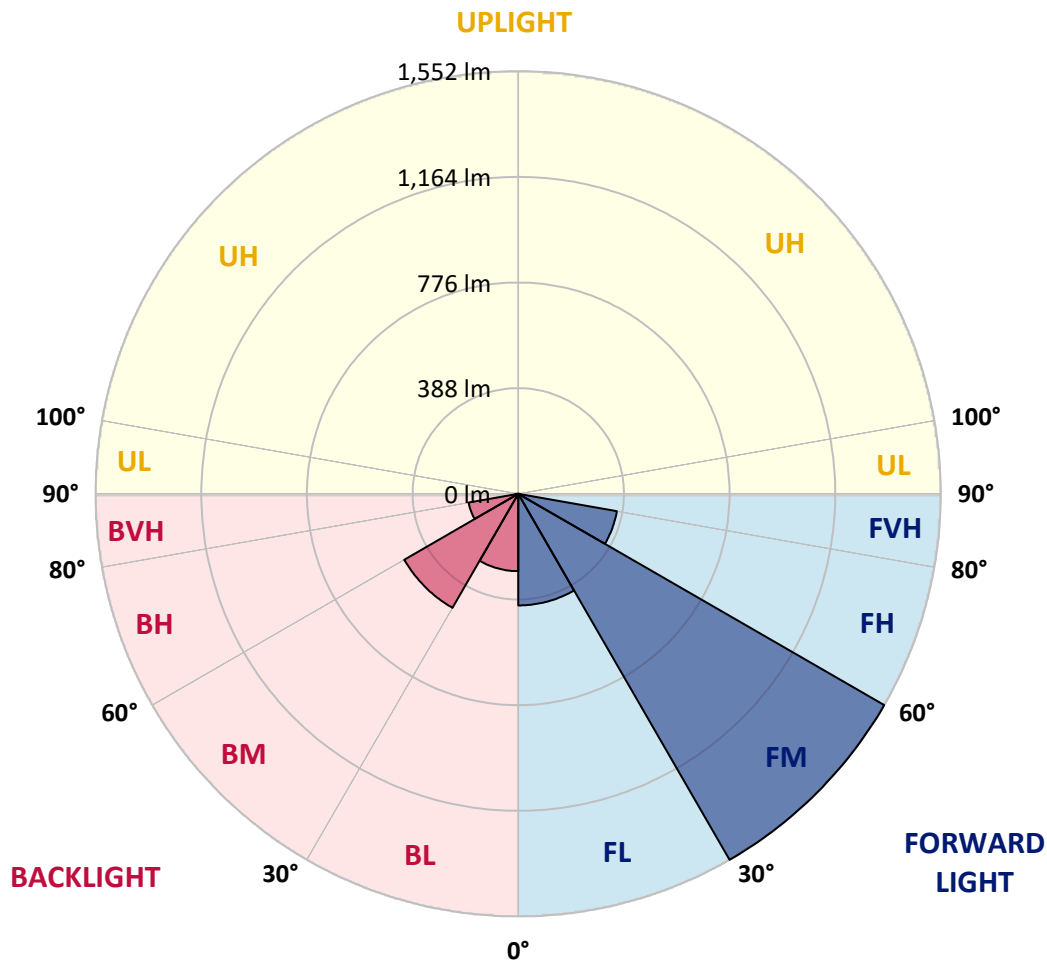


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.8	12.4			
FM (30°-60°)	1551.5	47.0			
FH (60°-80°)	367.6	11.1			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	283.9	8.6	B1/500		
BM (30°-60°)	483.4	14.7	B1/1000		
BH (60°-80°)	184.9	5.6	B1/500		G1/500
BVH (80°-90°)	10.4	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°	53°	55°	65°	75°	85°
0°	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3
2.5°	1077.7	1068.4	1073.9	1071.8	1089.1	1094.2	1091.7	1093.8	1103.5	1098.9	1089.1
5°	1007.0	1020.1	1022.7	1029.0	1039.2	1059.1	1074.7	1079.0	1083.6	1105.2	1103.1
7.5°	942.8	951.6	947.0	965.6	987.6	1019.7	1038.8	1042.2	1084.9	1096.7	1105.7
10°	902.1	893.2	914.3	919.5	944.4	981.2	1004.1	1018.0	1057.0	1103.9	1109.4
12.5°	864.5	861.5	874.2	888.6	916.5	954.5	977.8	983.4	1043.4	1093.0	1118.8
15°	836.5	833.1	845.8	856.4	889.0	922.8	952.4	968.1	1028.6	1086.6	1110.7
17.5°	814.5	814.1	821.3	840.3	873.7	902.1	949.9	950.8	1021.0	1096.3	1117.4
20°	813.2	812.8	814.1	835.3	865.7	900.4	941.9	949.5	1021.0	1089.5	1117.9
22.5°	823.8	817.0	824.7	838.2	860.2	903.4	944.9	961.8	1045.5	1123.0	1136.9
25°	840.7	842.4	846.6	851.3	864.0	910.1	971.1	985.1	1074.3	1151.7	1163.2
27.5°	871.6	870.8	872.5	875.1	886.0	916.5	981.6	1017.6	1134.4	1203.0	1191.5
30°	916.9	913.9	920.7	929.6	919.5	936.8	1016.8	1043.8	1190.3	1254.6	1223.2
32.5°	958.0	968.9	981.6	985.5	973.2	976.6	1063.3	1090.8	1236.8	1318.0	1262.2
35°	1009.1	1018.0	1034.9	1046.8	1044.7	1034.5	1126.8	1163.2	1304.1	1364.6	1303.2
37.5°	1059.1	1069.7	1097.6	1132.7	1113.2	1108.6	1194.5	1224.5	1324.8	1389.6	1333.2
40°	1139.5	1139.1	1187.3	1205.5	1222.8	1214.8	1264.7	1274.9	1335.8	1384.0	1334.1
42.5°	1233.8	1227.9	1277.0	1305.3	1327.8	1328.6	1337.9	1334.5	1340.9	1356.1	1325.2
45°	1323.6	1336.3	1385.7	1436.5	1459.0	1461.5	1399.7	1393.4	1349.8	1348.0	1308.3
47.5°	1433.1	1436.1	1476.7	1543.6	1595.6	1577.8	1479.7	1465.7	1388.7	1401.8	1336.7
50°	1439.5	1461.5	1497.9	1576.5	1736.5	1731.9	1583.4	1557.1	1451.3	1478.0	1415.7
52.5°	1306.6	1301.5	1344.7	1473.3	1725.9	1885.0	1755.2	1692.5	1585.9	1565.6	1544.0
55°	995.6	1007.4	1045.5	1175.5	1498.7	1887.1	1989.1	1937.9	1729.8	1695.0	1670.1
56°	873.3	875.1	911.0	1029.5	1367.6	1819.8	2033.5	1992.1	1801.3	1748.4	1710.3
57.5°	723.9	714.3	732.8	797.6	1154.3	1677.7	1984.8	2025.5	1885.0	1805.9	1753.0
60°	569.9	567.8	560.2	572.0	729.5	1263.9	1652.3	1743.7	1876.5	1751.7	1679.0
62.5°	465.4	454.9	470.1	487.0	506.9	784.1	1161.1	1214.8	1489.8	1398.4	1261.3
65°	361.0	355.8	374.9	429.9	441.8	498.0	661.4	702.8	879.7	864.0	760.8
67.5°	248.3	249.2	265.8	349.5	409.6	404.5	404.9	426.5	459.1	341.0	297.0
70°	157.4	157.0	165.8	225.1	329.6	333.0	316.0	309.7	293.7	177.7	188.3
72.5°	101.1	98.1	102.9	124.4	170.6	197.2	203.1	206.9	170.1	139.6	151.5
75°	57.1	54.2	52.5	57.9	67.3	77.9	85.4	88.0	98.6	105.8	112.1
77.5°	17.3	15.6	19.0	25.4	33.4	44.8	54.6	56.3	66.4	74.9	81.2
80°	7.7	8.5	11.9	16.9	23.7	31.7	38.5	41.0	47.9	54.2	55.8
82.5°	4.6	5.0	8.1	11.4	16.5	22.5	27.5	28.3	35.2	40.2	41.5
85°	1.7	2.1	4.2	6.7	10.6	14.4	14.4	15.6	14.4	14.4	15.6
87.5°	0.0	0.0	0.4	0.8	0.8	1.3	1.7	1.7	2.1	2.5	2.9
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°	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3	1091.3
2.5°	1094.2	1092.1	1088.7	1076.4	1075.1	1071.3	1050.2	1046.8	1050.2	1040.1	1040.9
5°	1092.1	1098.4	1073.0	1060.8	1038.0	1021.4	1002.4	992.6	975.3	964.3	976.6
7.5°	1101.4	1098.9	1067.1	1040.5	1006.2	964.3	930.9	911.8	881.4	872.9	879.3
10°	1098.0	1084.5	1047.2	1012.1	947.4	910.6	856.4	803.9	775.1	760.3	758.2
12.5°	1093.4	1089.5	1027.4	966.8	898.7	821.3	745.1	695.6	648.7	628.3	631.3
15°	1098.9	1066.7	990.1	913.5	823.0	721.4	639.3	575.4	542.9	529.7	529.7
17.5°	1096.3	1055.7	972.4	853.9	739.2	619.1	528.9	490.4	476.8	476.8	480.6
20°	1097.6	1062.9	936.4	794.2	640.2	521.3	455.7	441.8	447.7	449.8	451.9
22.5°	1104.8	1039.2	901.3	728.6	548.3	446.0	413.9	414.3	424.8	436.2	434.1
25°	1113.7	1029.9	858.5	663.5	478.1	409.1	399.0	397.7	405.8	411.7	412.5
27.5°	1106.1	1013.8	814.9	582.2	420.6	384.6	382.5	383.3	385.9	397.7	393.9
30°	1131.0	1018.5	760.3	514.1	388.9	376.6	374.1	372.8	376.6	380.0	377.0
32.5°	1161.9	1002.0	719.7	448.5	373.2	370.6	365.6	363.9	366.0	362.6	364.3
35°	1175.5	999.0	666.8	401.6	361.0	358.8	355.8	355.4	355.8	352.9	350.4
37.5°	1183.0	1013.0	606.4	380.0	353.3	355.4	348.7	347.8	340.2	341.9	343.1
40°	1196.2	991.4	557.2	359.3	348.7	344.4	338.5	337.2	332.2	329.2	332.2
42.5°	1177.1	985.1	509.1	350.4	341.9	337.2	333.0	325.8	324.1	321.6	319.9
45°	1161.9	948.6	465.8	339.3	333.9	331.3	323.3	315.6	309.3	311.8	308.1
47.5°	1173.4	935.9	423.1	330.0	322.9	319.9	311.8	306.0	299.6	296.6	295.8
50°	1219.0	959.7	387.2	323.3	313.5	311.8	301.2	294.5	288.5	286.4	287.3
52.5°	1328.2	1024.4	362.6	309.3	304.6	297.0	291.1	282.7	278.9	272.1	276.3
55°	1466.5	1129.7	356.2	296.2	293.7	286.9	278.9	272.5	265.3	259.8	258.5
56°	1510.9	1180.1	351.2	291.1	286.9	283.1	272.5	268.7	257.3	256.0	255.2
57.5°	1546.9	1224.5	352.0	281.4	277.1	273.7	267.4	258.1	250.4	245.8	247.9
60°	1465.7	1146.3	336.0	266.6	265.8	259.4	250.4	246.2	236.9	231.4	230.2
62.5°	1089.5	778.1	272.5	247.5	247.1	240.4	230.2	225.6	223.9	216.2	216.2
65°	627.5	487.9	235.6	231.9	228.5	221.7	211.6	207.7	203.5	201.0	198.9
67.5°	267.9	253.1	214.1	213.7	209.8	201.4	191.2	185.4	179.8	174.8	177.3
70°	194.2	197.2	193.3	191.2	186.6	176.0	167.1	160.0	151.5	148.1	150.6
72.5°	154.0	160.4	165.8	166.3	160.8	148.5	138.8	129.1	119.8	115.0	117.2
75°	116.8	121.0	126.5	127.7	119.8	111.3	102.0	91.8	84.6	79.1	80.0
77.5°	84.2	83.3	88.5	87.5	83.8	77.9	69.4	60.0	52.1	46.9	47.3
80°	57.5	58.8	61.8	61.4	56.7	52.9	46.5	38.9	33.0	28.8	27.9
82.5°	40.2	42.3	44.8	42.7	38.9	35.2	30.4	25.0	20.3	16.9	16.1
85°	14.4	16.5	19.0	20.3	21.6	20.8	17.3	14.0	10.2	8.5	8.1
87.5°	2.9	3.4	3.8	3.8	3.8	3.4	2.9	2.9	2.5	1.3	1.3
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)