

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: P647216

Luminaire Tested: **GALN-SA1D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5015.9 lumens
Efficiency: N/A
Efficacy: 77.2 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

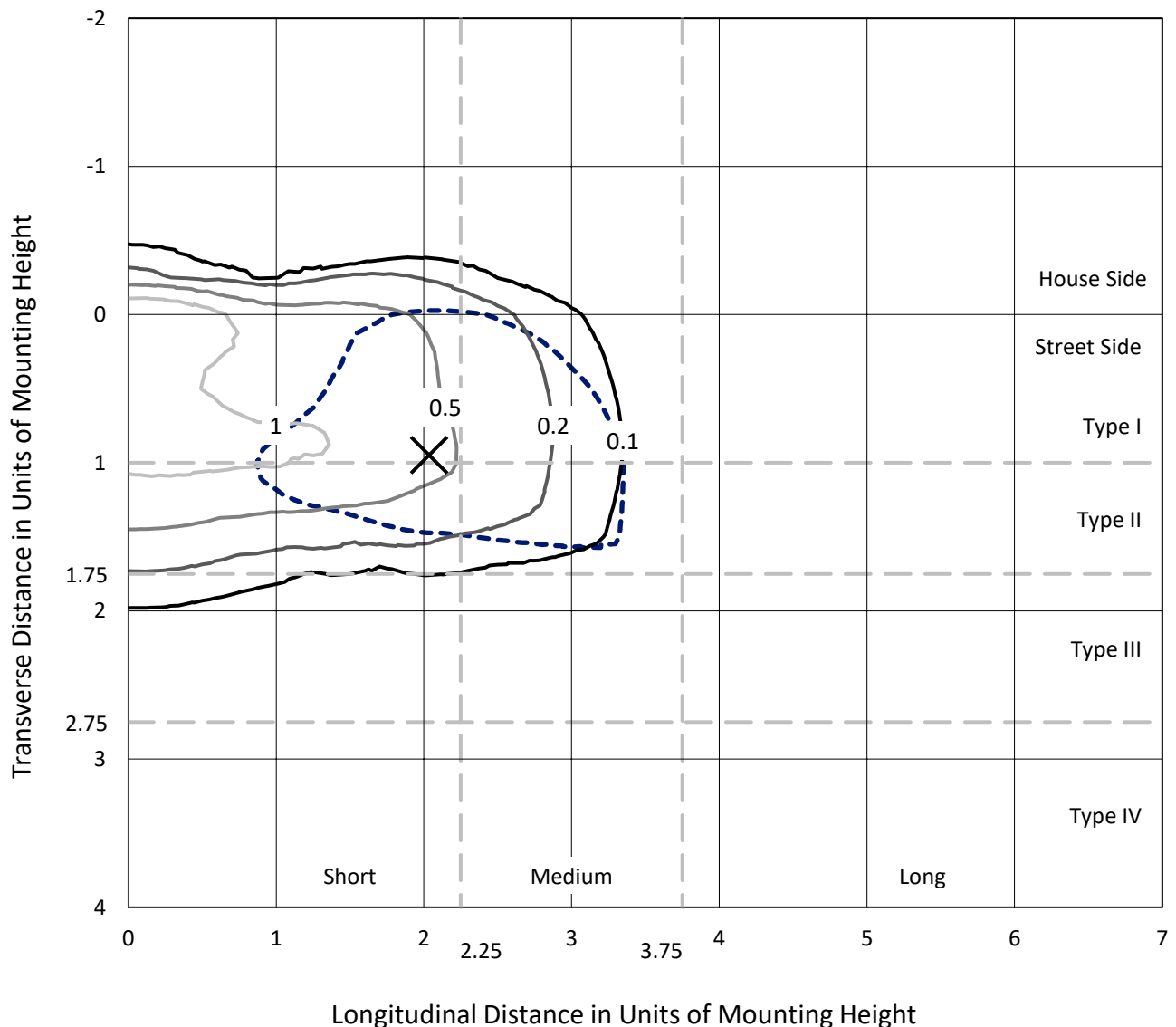
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647216
 CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

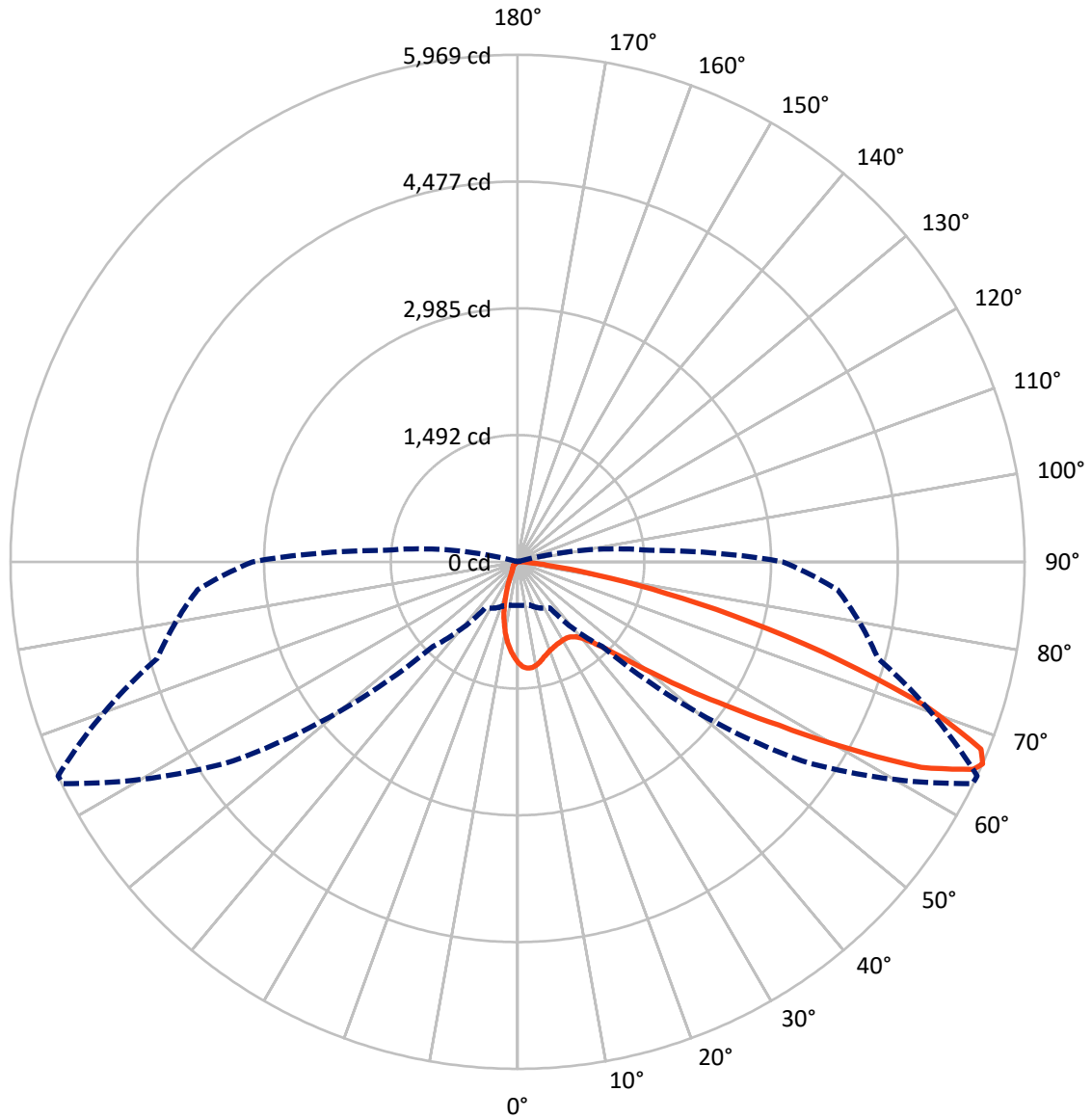
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647216
CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P647216
 CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

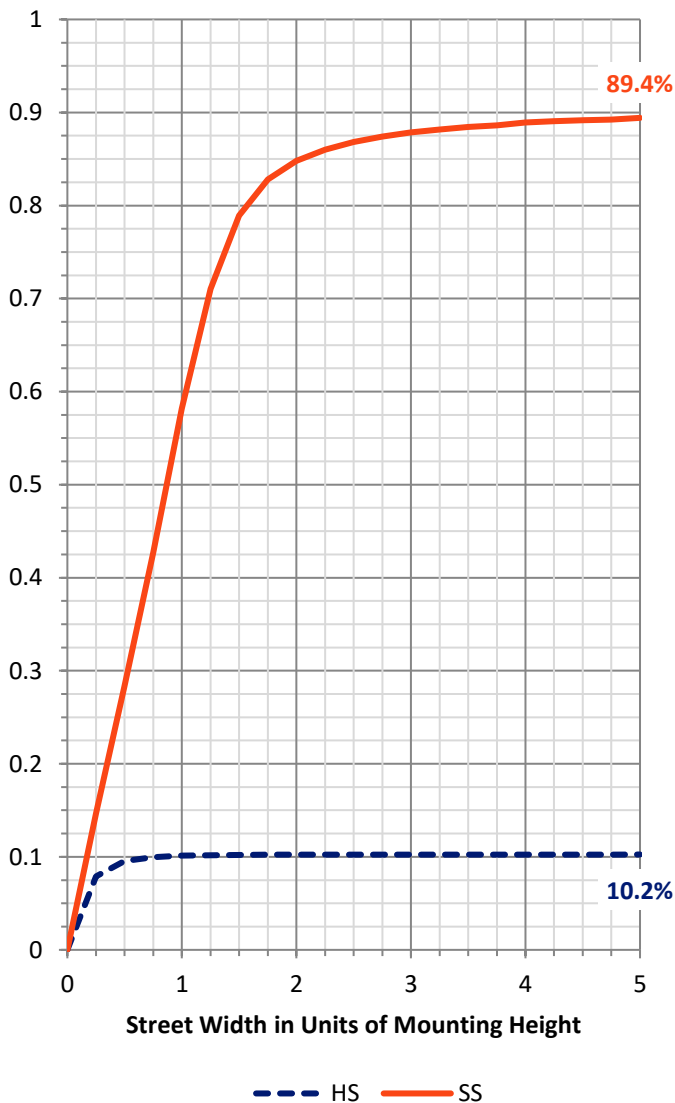
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.7	0.0	518.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4497.2	0.0	4497.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	5015.9	0.0	5015.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.9
10°-20°	212.0	4.2
20°-30°	303.6	6.1
30°-40°	443.5	8.8
40°-50°	743.6	14.8
50°-60°	1241.0	24.7
60°-70°	1317.3	26.3
70°-80°	596.6	11.9
80°-90°	61.0	1.2
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°	5015.9	100.0
0°-180°	5015.9	100.0

Coefficient of Utilization

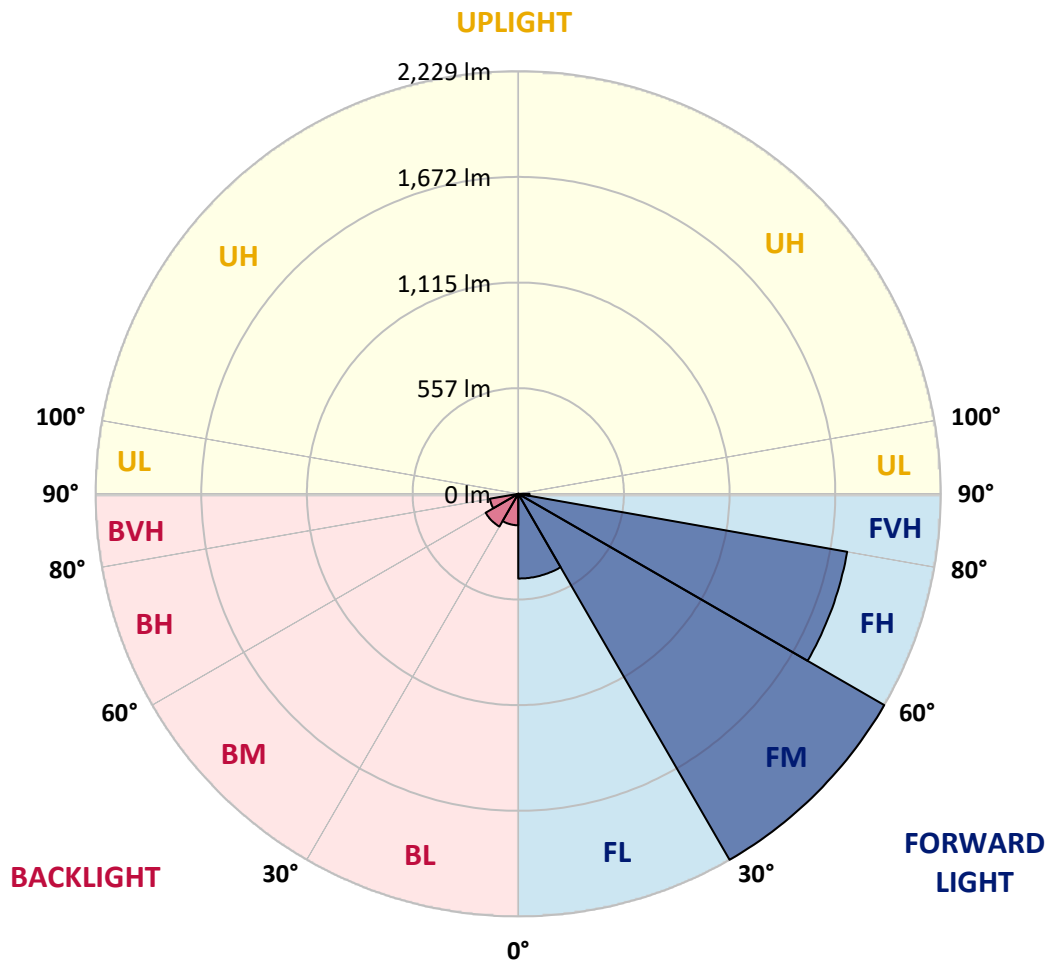


REPORT NUMBER: P647216
 CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.9	8.9			
FM (30°-60°)	2229.2	44.4			
FH (60°-80°)	1762.0	35.1			G1/1800
FVH (80°-90°)	59.1	1.2			G1/100
BL (0°-30°)	165.9	3.3	B1/500		
BM (30°-60°)	198.9	4.0	B0/220		
BH (60°-80°)	151.9	3.0	B1/500		G1/500
BVH (80°-90°)	1.9	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-G1
 Type II Short





REPORT NUMBER: P647216

CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5
2.5°	1253.5	1254.8	1256.6	1258.9	1260.6	1255.5	1248.4	1240.3	1238.5	1221.3	1200.3
5°	1186.4	1188.4	1203.3	1211.5	1229.8	1246.4	1256.9	1258.2	1257.6	1241.3	1207.8
7.5°	1090.9	1096.6	1111.2	1125.4	1159.6	1191.2	1228.4	1254.5	1256.2	1251.8	1210.1
10°	1013.3	1017.0	1024.5	1052.6	1081.0	1129.2	1181.3	1230.5	1234.5	1252.1	1208.1
12.5°	952.7	958.1	967.2	988.9	1023.1	1068.5	1127.8	1193.8	1202.3	1245.7	1202.3
15°	910.3	913.0	922.1	943.5	976.7	1018.7	1078.7	1155.6	1163.1	1237.2	1201.3
17.5°	890.3	893.3	899.8	916.7	944.1	983.1	1041.8	1124.8	1134.3	1231.8	1205.0
20°	895.8	898.4	898.8	907.6	926.2	959.1	1014.6	1096.0	1108.2	1228.4	1211.1
22.5°	926.5	926.9	922.8	918.8	925.2	948.9	998.0	1077.6	1090.2	1227.7	1218.3
25°	972.6	973.7	966.8	952.7	939.8	952.0	994.3	1065.8	1077.0	1226.0	1222.7
27.5°	1036.3	1036.0	1034.0	1010.2	973.7	965.5	997.4	1059.4	1068.9	1221.3	1224.4
30°	1125.4	1122.7	1118.3	1091.6	1035.7	998.4	1010.2	1055.3	1064.1	1214.5	1219.9
32.5°	1213.2	1223.4	1222.7	1197.3	1127.4	1057.0	1037.0	1060.7	1067.2	1210.1	1213.5
35°	1315.5	1315.1	1341.2	1331.7	1250.1	1131.8	1082.7	1078.7	1083.8	1213.2	1210.4
37.5°	1410.3	1419.1	1459.8	1469.6	1395.1	1237.5	1147.4	1117.3	1119.0	1233.9	1217.9
40°	1528.6	1545.5	1606.2	1639.0	1573.3	1394.4	1243.0	1188.1	1188.4	1284.7	1246.1
42.5°	1681.0	1707.8	1764.3	1819.2	1784.0	1580.1	1386.3	1300.2	1299.5	1374.1	1310.4
45°	1866.4	1885.0	1949.4	2036.4	2014.0	1839.3	1595.0	1474.0	1465.2	1520.7	1424.6
47.5°	2026.2	2051.6	2117.0	2216.3	2317.9	2155.7	1844.3	1712.9	1707.1	1754.2	1620.4
50°	2096.0	2118.4	2187.2	2326.4	2572.7	2571.0	2215.7	2061.5	2051.6	2077.1	1923.3
52.5°	2019.4	2040.5	2110.0	2283.4	2692.6	3077.1	2753.6	2498.9	2487.0	2454.5	2285.0
55°	1757.3	1774.5	1877.2	2076.4	2646.5	3414.6	3494.8	3039.2	2993.1	2866.7	2694.6
57.5°	1399.1	1390.4	1454.0	1685.4	2376.2	3527.7	4255.8	3712.4	3630.0	3223.1	3041.3
60°	969.6	996.7	1022.4	1174.9	1786.7	3331.6	4729.0	4558.6	4450.2	3573.8	3373.2
62.5°	712.8	730.8	747.7	818.2	1123.4	2660.1	4812.7	5427.9	5331.7	3946.1	3690.0
65°	563.8	565.1	571.8	641.3	740.2	1729.8	4410.6	5918.1	5893.4	4304.5	3818.4
66°	513.6	514.0	524.5	599.0	664.4	1408.6	4088.4	5955.4	5969.0	4390.6	3780.8
67.5°	448.9	447.6	462.8	538.3	605.0	1015.6	3511.8	5804.3	5884.6	4456.7	3645.6
70°	348.0	346.2	364.9	451.6	557.3	677.5	2334.2	4983.8	5113.2	4321.5	3225.5
72.5°	231.7	233.1	264.9	356.4	531.9	596.6	1404.2	3791.3	3974.2	3568.7	2537.5
75°	135.1	137.6	173.8	264.9	461.7	568.8	794.7	2703.5	2820.4	2464.3	1580.7
77.5°	70.8	71.8	97.2	174.8	354.0	528.1	529.5	1727.1	1782.0	1197.6	625.7
80°	37.6	36.6	52.1	105.4	243.6	463.8	429.6	914.4	950.6	355.7	158.2
82.5°	14.3	15.6	27.8	69.1	144.0	333.0	370.0	404.2	391.7	78.2	66.4
85°	2.7	3.4	11.8	41.0	72.5	139.2	272.7	198.2	183.6	29.4	38.3
87.5°	0.3	0.7	3.4	9.8	10.5	47.1	80.6	54.9	47.4	10.8	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647216

CATALOG NUMBER: GALN-SA1D-835-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5	1189.5
2.5°	1190.2	1181.0	1150.5	1120.3	1089.5	1061.7	1042.8	1011.9	1004.1	993.0	986.5
5°	1187.7	1166.4	1107.8	1043.8	984.2	919.8	870.7	823.2	797.8	785.0	780.2
7.5°	1181.0	1147.1	1055.6	955.3	859.8	763.6	680.0	616.2	575.3	547.2	528.1
10°	1167.5	1120.7	995.0	857.2	712.8	585.8	479.7	399.1	336.8	317.1	317.7
12.5°	1153.5	1091.2	927.2	748.0	569.2	408.9	296.4	232.7	203.0	193.1	191.1
15°	1140.7	1063.1	860.8	642.3	423.8	264.9	191.1	168.7	160.6	158.9	158.6
17.5°	1133.9	1037.0	790.0	521.4	295.7	179.9	153.2	147.0	144.6	143.0	142.3
20°	1128.1	1014.3	722.2	408.3	202.2	147.4	137.2	131.5	127.4	125.7	124.7
22.5°	1124.1	991.0	652.2	316.1	154.8	130.8	121.6	114.2	108.4	106.4	105.0
25°	1118.0	965.2	581.4	231.1	130.4	116.2	105.7	96.9	89.4	85.7	85.0
27.5°	1109.2	936.1	503.8	171.1	116.5	103.4	90.4	79.6	72.2	68.1	68.4
30°	1094.9	905.5	426.2	135.9	105.4	90.1	76.3	65.7	58.6	55.6	55.2
32.5°	1078.0	868.7	355.0	116.5	95.2	78.2	63.7	54.6	49.1	46.7	46.4
35°	1062.1	831.4	282.5	104.7	84.7	67.4	53.6	45.7	41.7	39.6	40.0
37.5°	1053.3	798.2	220.2	95.2	76.3	57.9	46.0	39.3	35.5	33.9	33.5
40°	1059.0	771.1	175.2	86.8	66.7	49.8	39.6	33.9	30.1	27.8	27.8
42.5°	1086.1	759.2	141.3	78.6	57.9	43.0	34.5	29.1	25.1	22.7	23.0
45°	1168.8	771.7	118.2	71.2	49.8	37.3	29.8	24.0	20.4	18.6	18.3
47.5°	1306.0	818.9	102.3	63.3	42.7	31.9	25.1	20.0	16.3	14.9	14.6
50°	1545.9	916.0	90.4	55.6	36.3	27.1	20.7	15.9	12.8	11.5	11.5
52.5°	1875.8	1128.1	82.0	46.7	30.5	23.0	16.9	12.8	10.2	9.2	8.8
55°	2220.7	1351.7	77.6	39.3	25.4	18.9	13.5	10.2	7.8	6.8	6.4
57.5°	2552.3	1527.2	72.5	31.9	20.4	14.6	10.5	7.8	5.4	4.8	4.4
60°	2870.5	1669.2	61.6	25.4	15.9	10.5	7.8	5.4	3.8	3.1	3.1
62.5°	3155.0	1751.8	48.5	20.4	12.2	7.4	5.1	4.1	2.7	2.0	2.0
65°	3188.2	1644.5	36.6	15.6	8.8	4.8	3.1	3.1	2.0	1.3	1.3
66°	3121.5	1553.3	32.2	14.3	7.8	4.1	2.7	2.3	1.7	1.0	1.0
67.5°	2972.4	1397.8	27.8	12.2	6.4	3.1	2.0	2.0	1.3	0.7	0.7
70°	2568.3	1141.7	22.0	9.2	4.8	2.3	1.3	1.3	1.0	0.7	0.7
72.5°	1957.5	852.4	17.9	6.8	3.4	1.7	1.0	1.0	1.0	0.7	0.7
75°	1180.6	459.1	13.9	5.1	3.1	1.3	0.7	1.0	1.3	1.0	0.7
77.5°	435.0	156.2	10.8	4.1	2.3	1.3	0.7	0.7	1.3	1.0	1.0
80°	106.7	40.6	7.8	3.4	2.3	1.3	0.7	0.7	1.3	1.3	1.3
82.5°	49.5	17.3	5.4	3.1	2.3	1.3	0.7	0.7	1.0	1.3	1.3
85°	28.4	8.1	4.4	3.4	2.3	1.3	0.7	0.7	1.0	1.3	1.3
87.5°	11.5	4.1	4.1	3.4	2.7	1.7	0.7	0.7	0.7	1.0	1.0
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)