

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: P648211

Luminaire Tested: **GALN-SA1B-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4468.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

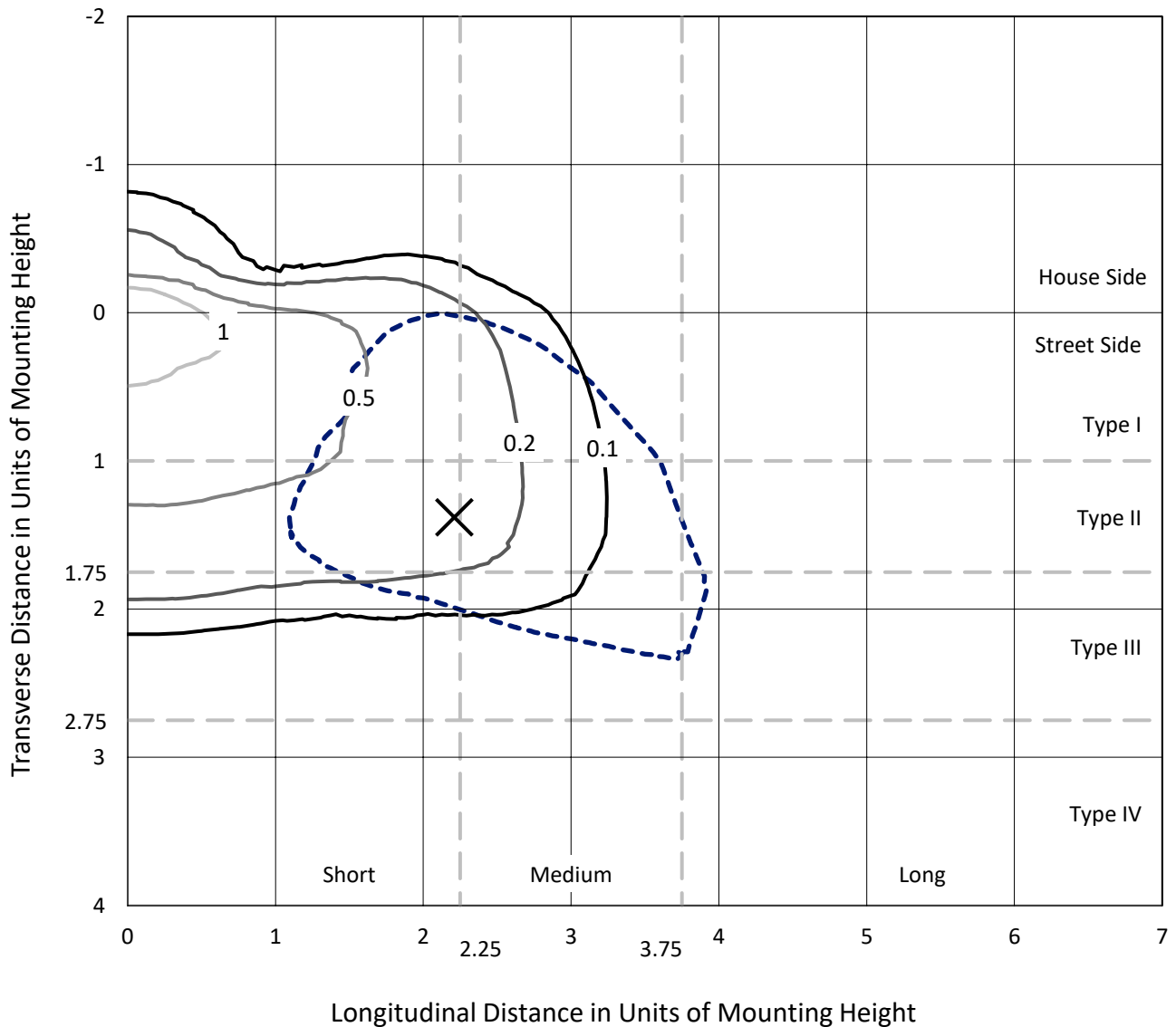
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648211
 CATALOG NUMBER: GALN-SA1B-835-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

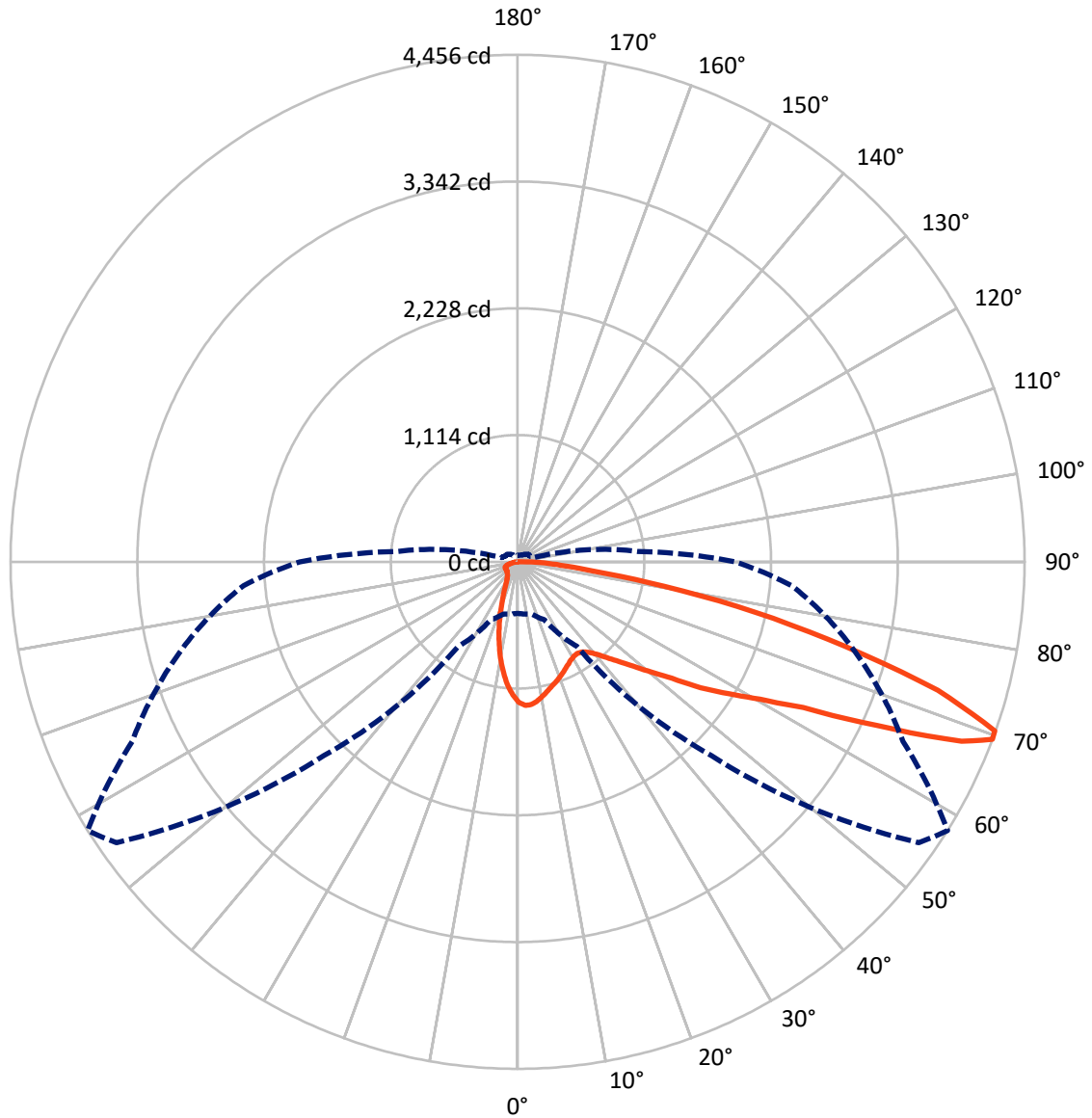
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P648211
CATALOG NUMBER: GALN-SA1B-835-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P648211
 CATALOG NUMBER: GALN-SA1B-835-U-SL3

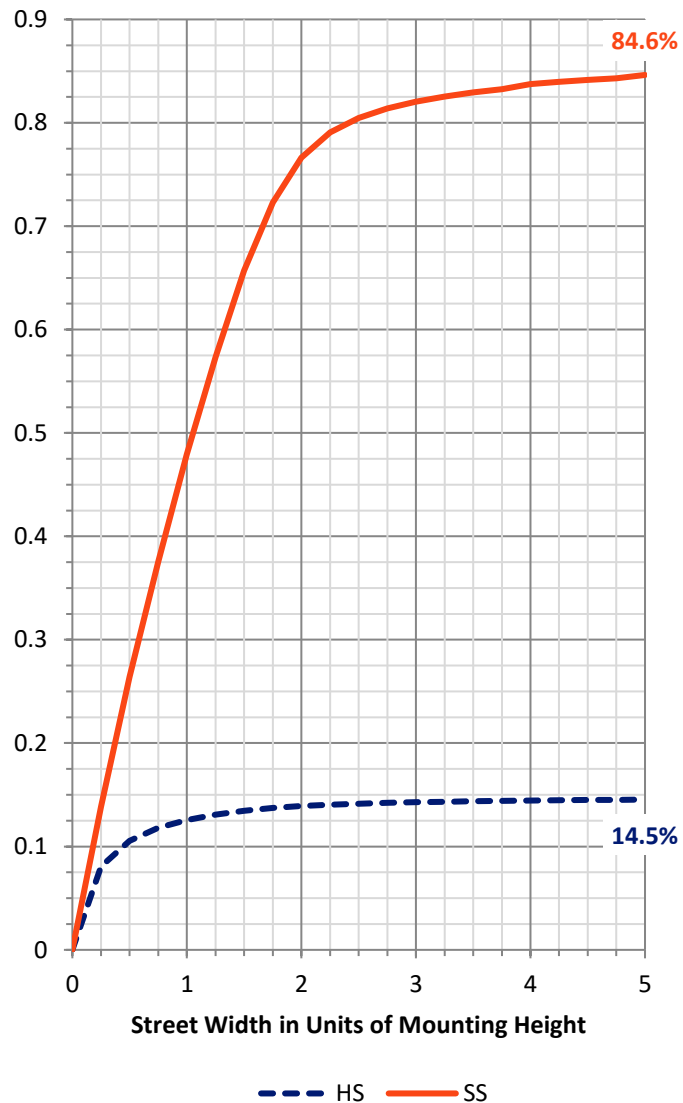
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.9	0.0	654.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3813.7	0.0	3813.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	4468.6	0.0	4468.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	2.3
10°-20°	230.3	5.2
20°-30°	297.5	6.7
30°-40°	386.4	8.6
40°-50°	561.8	12.6
50°-60°	896.4	20.1
60°-70°	1197.5	26.8
70°-80°	690.3	15.4
80°-90°	103.4	2.3
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°	4468.6	100.0
0°-180°	4468.6	100.0

Coefficient of Utilization

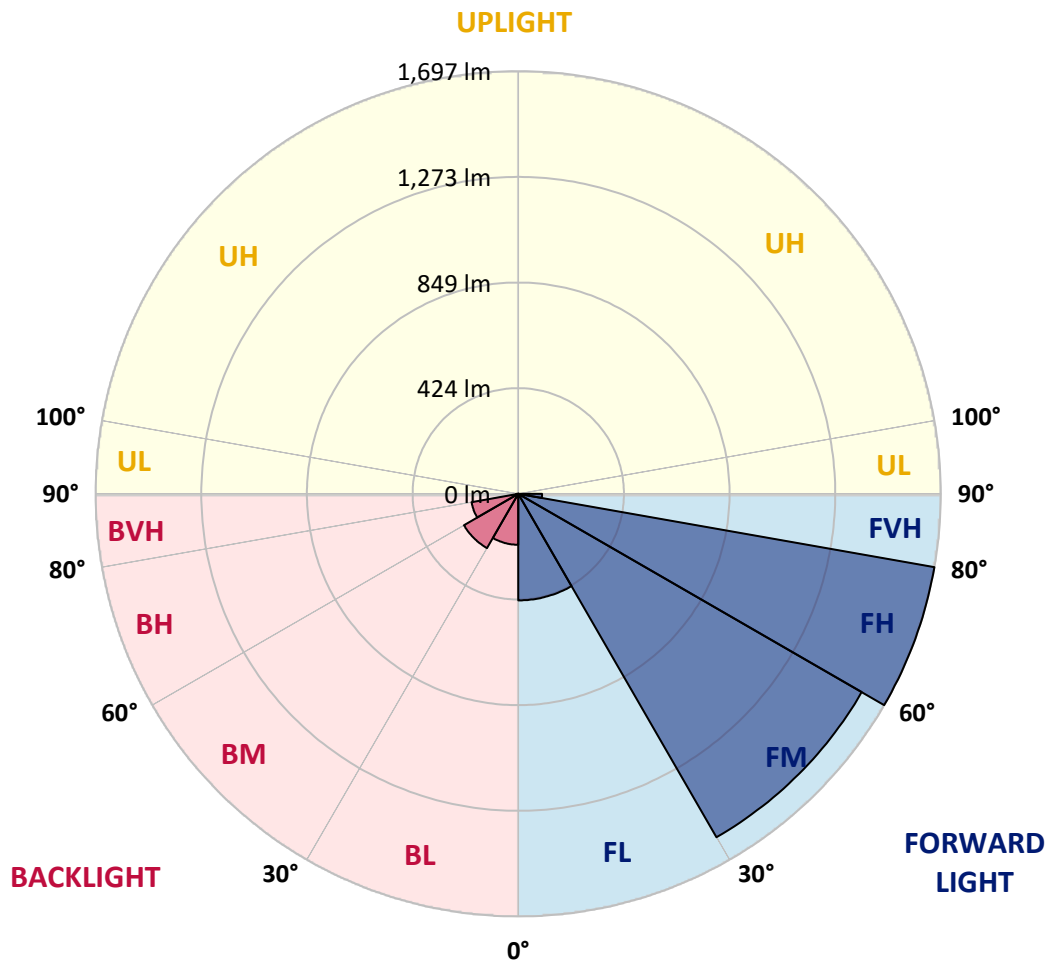


REPORT NUMBER: P648211
 CATALOG NUMBER: GALN-SA1B-835-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.0	9.6			
FM (30°-60°)	1592.8	35.6			
FH (60°-80°)	1697.4	38.0			G1/1800
FVH (80°-90°)	95.5	2.1			G1/100
BL (0°-30°)	204.7	4.6	B1/500		
BM (30°-60°)	251.8	5.6	B1/1000		
BH (60°-80°)	190.4	4.3	B1/500		G1/500
BVH (80°-90°)	7.9	0.2			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 III Short





REPORT NUMBER: P648211

CATALOG NUMBER: GALN-SA1B-835-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1280.7	1284.2	1283.2	1281.9	1280.0	1274.5	1265.5	1264.0	1258.3	1246.1	1230.9
5°	1261.0	1264.0	1264.2	1266.0	1268.5	1267.5	1261.0	1260.2	1251.8	1235.3	1210.0
7.5°	1193.4	1197.4	1206.2	1215.9	1224.6	1232.8	1234.9	1236.1	1230.9	1211.9	1178.0
10°	1117.5	1121.5	1125.5	1139.9	1161.3	1181.8	1198.7	1201.0	1202.2	1184.8	1143.4
12.5°	1033.2	1041.5	1049.9	1071.4	1100.0	1132.1	1162.1	1166.8	1175.3	1162.1	1113.5
15°	961.7	970.2	982.4	1001.6	1036.2	1082.6	1124.7	1132.5	1149.1	1142.4	1085.6
17.5°	912.1	915.1	923.5	945.6	982.9	1031.8	1088.1	1103.5	1130.2	1128.5	1061.7
20°	873.0	876.7	882.0	895.4	934.3	985.9	1053.9	1073.9	1110.0	1116.0	1037.9
22.5°	856.5	859.3	858.6	865.8	892.2	944.0	1019.3	1043.0	1092.1	1107.5	1016.0
25°	857.5	860.0	856.3	854.6	870.2	907.1	983.1	1013.3	1077.6	1101.8	996.1
27.5°	874.2	876.0	869.0	862.0	863.3	884.2	953.2	986.7	1065.3	1104.3	979.4
30°	896.7	899.9	895.4	887.0	877.7	878.8	934.0	966.9	1059.6	1113.0	971.5
32.5°	925.6	928.6	926.6	919.9	907.9	894.7	929.3	959.7	1060.2	1130.7	969.7
35°	956.0	962.0	965.2	964.7	955.0	932.1	948.0	973.2	1072.1	1160.3	979.9
37.5°	990.3	995.3	1009.3	1018.3	1009.3	982.7	990.1	1007.6	1098.5	1203.2	1002.3
40°	1023.8	1031.2	1051.6	1079.6	1076.1	1052.7	1054.4	1065.9	1145.1	1267.0	1046.2
42.5°	1058.7	1067.6	1103.2	1144.7	1152.9	1134.6	1139.4	1149.6	1211.5	1355.5	1121.5
45°	1103.5	1114.2	1158.1	1209.7	1242.1	1230.9	1244.3	1249.3	1300.2	1470.6	1220.6
47.5°	1161.3	1173.8	1227.9	1292.2	1338.0	1348.2	1371.7	1368.7	1410.0	1607.0	1349.3
50°	1258.8	1265.7	1316.8	1382.4	1445.4	1491.5	1517.0	1521.7	1546.3	1739.5	1493.0
52.5°	1374.6	1380.9	1417.8	1475.1	1554.1	1651.8	1714.6	1699.1	1705.1	1901.0	1661.3
55°	1505.0	1515.5	1538.9	1577.0	1679.5	1823.2	1949.4	1953.1	1886.8	2055.5	1822.5
57.5°	1605.9	1623.6	1663.7	1718.1	1848.0	2013.9	2183.4	2185.8	2101.1	2220.5	2000.4
60°	1555.1	1576.0	1667.7	1800.0	2069.0	2346.6	2463.0	2448.8	2309.7	2408.4	2217.5
62.5°	1335.8	1339.6	1472.8	1679.7	2137.0	2791.7	2879.2	2819.1	2588.0	2646.6	2438.0
65°	864.5	888.9	994.6	1284.4	1913.5	3038.7	3608.4	3469.6	2978.4	2917.1	2622.7
67.5°	545.8	539.6	583.4	733.4	1316.1	2821.1	4230.6	4208.7	3488.7	3087.8	2578.7
69°	452.6	459.5	474.5	562.2	905.6	2408.7	4304.2	4455.7	3736.2	3074.3	2418.4
70°	410.4	413.7	429.4	498.5	698.8	2017.4	4183.6	4448.9	3833.4	3018.0	2302.3
72.5°	325.7	325.5	352.4	414.7	522.3	1151.6	3435.2	3862.5	3724.7	2755.8	1902.2
75°	247.5	251.4	281.1	350.9	481.2	629.3	2397.2	2974.6	2974.9	2176.7	1187.0
77.5°	178.4	181.0	215.6	294.6	453.4	510.1	1596.7	2133.5	2005.7	997.4	373.1
80°	116.9	118.4	144.8	233.3	408.7	481.2	946.7	1305.9	946.0	264.7	123.3
82.5°	64.0	71.5	88.5	151.0	328.0	444.6	575.4	660.9	354.9	117.8	64.3
85°	32.2	34.1	49.9	88.2	214.3	367.9	400.7	379.1	183.1	58.6	33.4
87.5°	9.5	12.0	20.7	34.1	87.0	191.7	223.1	200.1	70.5	21.2	7.0
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: P648211
 CATALOG NUMBER: GALN-SA1B-835-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1224.6	1220.1	1200.2	1182.3	1165.8	1148.3	1133.7	1120.7	1122.0	1122.2	1109.0
5°	1196.7	1186.5	1148.7	1113.3	1083.4	1045.5	1013.0	992.1	981.6	967.7	972.6
7.5°	1158.8	1139.2	1086.6	1027.8	972.6	923.5	870.2	833.6	810.2	787.5	790.5
10°	1119.7	1088.1	1011.6	933.8	862.6	784.0	716.0	657.6	614.3	598.1	587.4
12.5°	1079.6	1037.9	940.8	837.3	738.9	645.0	548.5	485.9	438.1	412.7	415.9
15°	1043.0	992.4	867.0	740.9	613.1	501.2	405.0	345.4	312.0	305.1	309.1
17.5°	1009.1	942.8	798.0	647.2	497.9	375.8	304.3	270.7	257.2	253.5	253.2
20°	974.2	900.7	720.4	547.0	388.1	291.4	249.7	234.0	231.5	233.0	233.3
22.5°	938.8	848.5	640.7	447.6	309.1	238.3	218.3	214.1	216.0	219.6	220.0
25°	906.2	802.7	564.0	360.3	246.7	209.4	199.6	199.6	204.1	209.4	209.6
27.5°	879.2	758.3	487.5	286.1	206.6	188.4	185.2	186.9	193.2	197.2	197.4
30°	857.1	717.0	415.2	229.3	181.7	171.7	170.9	174.0	178.4	182.2	182.4
32.5°	840.3	680.6	347.7	192.6	164.5	159.0	158.7	161.0	163.5	164.5	165.4
35°	833.9	650.4	285.9	169.4	153.0	149.6	149.6	149.3	150.3	150.8	151.3
37.5°	839.1	627.3	238.0	154.5	144.5	142.0	140.5	139.1	138.6	138.6	138.8
40°	861.3	615.0	202.3	144.8	138.6	134.8	132.1	130.4	128.6	129.1	129.6
42.5°	908.4	617.3	178.2	138.3	133.3	128.1	124.1	122.1	120.9	122.4	122.1
45°	983.4	639.7	162.7	133.8	128.1	121.4	117.6	115.6	115.6	117.8	118.6
47.5°	1088.3	682.6	154.5	130.4	124.1	116.1	112.4	110.9	111.4	115.1	115.4
50°	1216.4	757.1	153.0	128.6	122.1	112.4	108.1	106.6	107.9	111.9	112.4
52.5°	1357.7	853.1	160.3	128.9	120.3	110.2	104.7	102.4	103.7	106.9	107.9
55°	1525.2	973.2	178.9	129.8	117.8	108.9	102.2	97.2	98.7	100.9	101.2
57.5°	1696.1	1124.7	211.8	130.1	115.9	106.6	98.0	91.5	91.5	92.9	93.7
60°	1905.0	1289.7	255.2	130.4	116.1	103.4	92.2	85.0	84.0	84.7	85.0
62.5°	2112.3	1427.7	262.4	129.6	118.6	100.1	86.0	78.5	76.7	76.5	76.0
65°	2203.8	1402.0	215.1	126.1	121.4	98.2	81.0	72.3	69.3	68.3	68.3
67.5°	2054.7	1186.0	161.8	121.4	119.6	96.2	76.3	67.0	63.6	61.5	61.5
69°	1914.7	1054.9	145.3	118.2	115.1	92.9	73.3	64.3	60.1	57.8	57.1
70°	1806.5	964.7	138.3	115.4	110.9	89.2	71.0	62.3	57.6	55.0	54.6
72.5°	1441.7	756.8	121.1	104.9	94.4	75.0	63.0	56.1	51.6	48.9	48.1
75°	830.8	410.2	100.5	91.2	76.0	58.3	53.3	48.9	45.3	42.8	42.1
77.5°	255.7	158.5	72.7	72.0	55.8	45.1	42.6	40.9	38.4	35.6	35.2
80°	107.7	80.7	49.3	48.6	37.1	31.4	30.6	30.4	29.4	27.2	26.4
82.5°	59.0	45.6	34.4	29.9	22.4	18.2	18.9	19.2	18.5	16.2	14.7
85°	28.9	24.9	16.7	13.5	10.2	6.5	6.3	7.4	7.0	5.0	5.5
87.5°	5.7	7.0	4.5	2.0	1.0	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)