

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: P648210

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3729.4 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

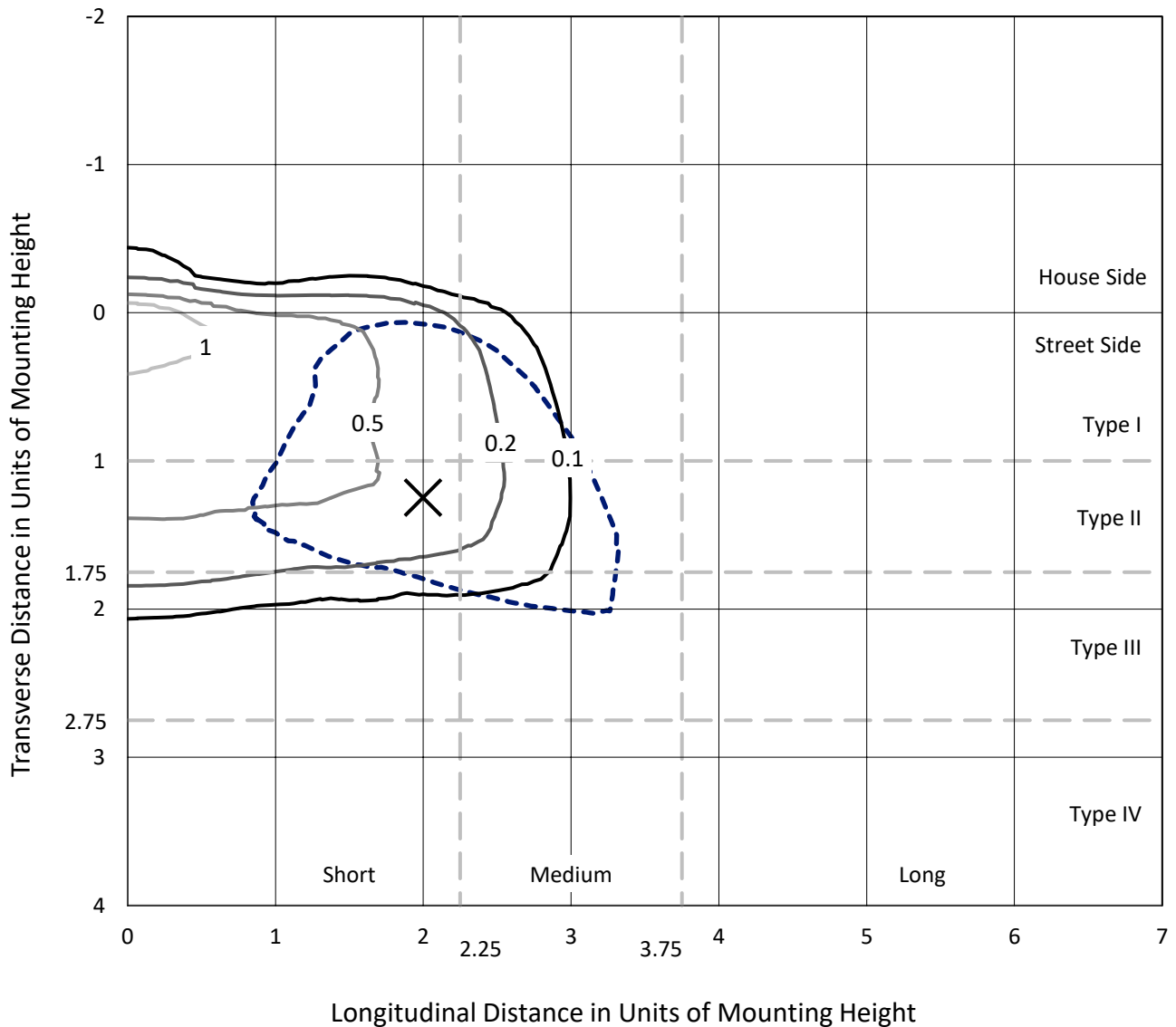
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648210
 CATALOG NUMBER: GALN-SA1B-835-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

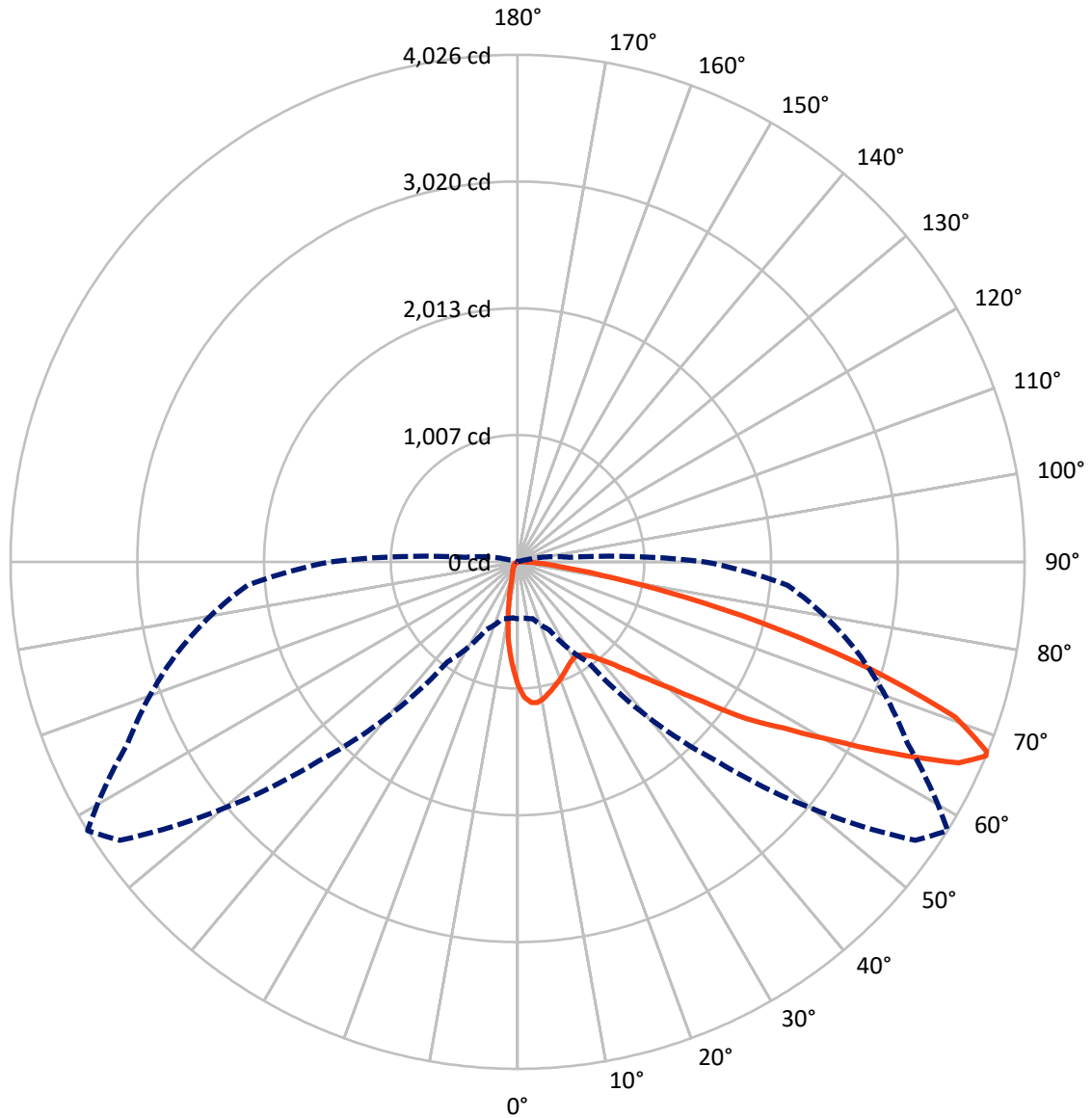
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P648210
CATALOG NUMBER: GALN-SA1B-835-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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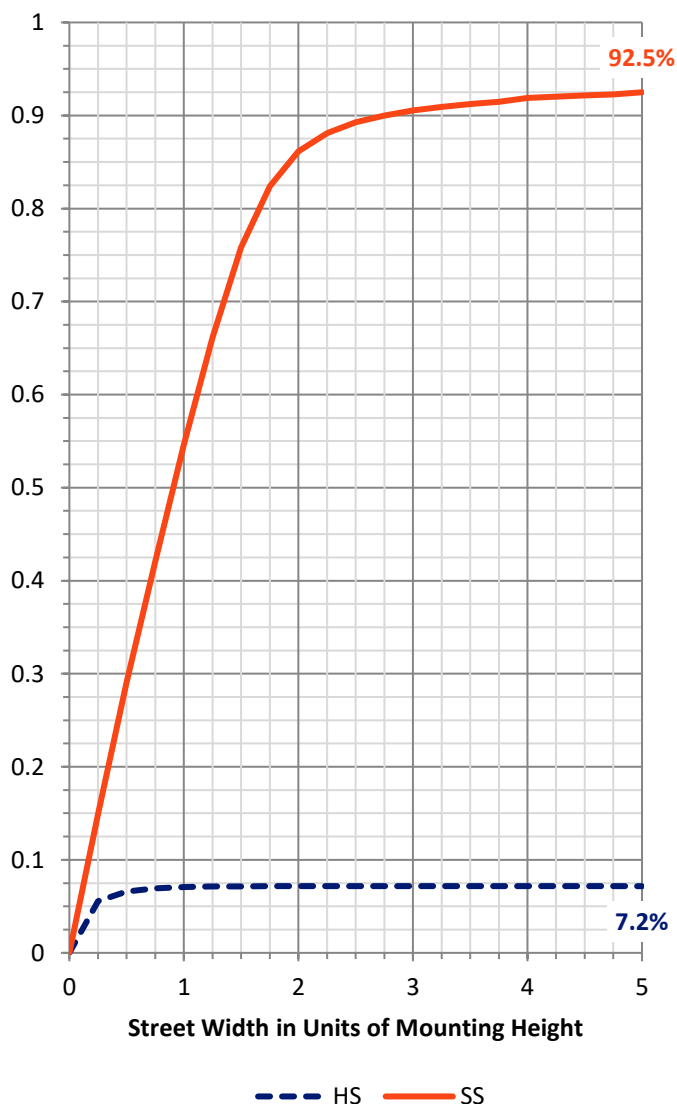
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.1	0.0	269.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3460.3	0.0	3460.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	3729.4	0.0	3729.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	2.2
10°-20°	173.3	4.6
20°-30°	234.8	6.3
30°-40°	325.6	8.7
40°-50°	519.4	13.9
50°-60°	897.8	24.1
60°-70°	1025.5	27.5
70°-80°	427.5	11.5
80°-90°	45.3	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°	3729.4	100.0
0°-180°	3729.4	100.0

Coefficient of Utilization



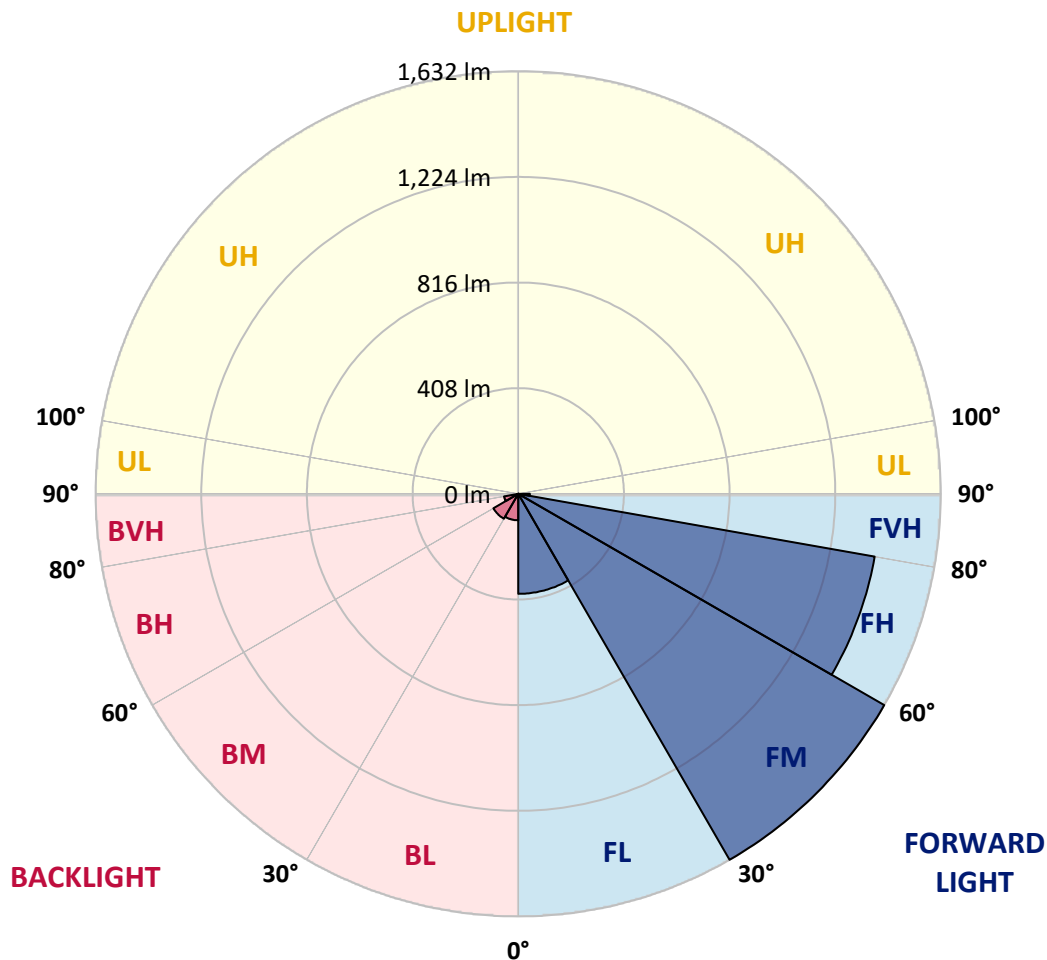
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 CATALOG NUMBER: GALN-SA1B-835-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.1	10.4			
FM (30°-60°)	1631.8	43.8			
FH (60°-80°)	1397.4	37.5			G1/1800
FVH (80°-90°)	45.0	1.2			G1/100
BL (0°-30°)	102.2	2.7	B0/110		
BM (30°-60°)	111.0	3.0	B0/220		
BH (60°-80°)	55.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P648210

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6
2.5°	1147.4	1149.1	1142.6	1137.4	1124.0	1109.5	1090.3	1080.1	1062.7	1032.5	999.1
5°	1174.3	1176.5	1175.5	1174.3	1169.1	1155.1	1130.7	1121.7	1096.0	1046.9	986.7
7.5°	1114.5	1122.7	1123.7	1133.4	1142.6	1143.9	1134.6	1127.9	1104.3	1046.7	964.5
10°	1035.2	1040.7	1048.7	1059.9	1082.1	1100.5	1109.5	1108.5	1094.8	1039.0	938.6
12.5°	955.3	958.2	970.5	989.6	1016.8	1048.2	1072.2	1076.9	1077.1	1029.7	916.9
15°	886.4	885.2	894.7	916.9	955.0	994.3	1037.2	1044.7	1056.7	1020.8	896.7
17.5°	827.6	834.1	835.6	860.0	895.2	946.3	1000.8	1014.1	1037.9	1013.0	880.0
20°	791.2	794.7	798.0	811.7	843.4	897.2	966.7	984.9	1020.6	1006.1	861.3
22.5°	780.6	782.8	780.0	784.3	806.7	854.6	929.6	953.8	1003.8	999.6	846.1
25°	788.8	791.0	784.6	779.6	787.3	820.0	893.7	923.1	990.4	998.3	834.6
27.5°	808.7	812.9	804.0	795.0	790.5	801.2	865.5	899.7	981.2	1004.4	829.4
30°	839.8	842.4	835.6	824.7	814.4	803.7	850.8	883.5	978.7	1018.3	828.9
32.5°	873.7	879.0	875.2	868.0	854.8	829.4	855.0	883.9	984.6	1038.5	835.1
35°	915.6	921.6	925.1	923.6	906.6	875.0	882.0	906.4	1000.6	1075.6	852.1
37.5°	956.7	962.0	981.6	988.4	973.4	943.5	934.3	950.5	1035.8	1124.2	882.8
40°	1003.8	1010.9	1038.5	1064.2	1056.9	1025.5	1008.6	1022.0	1089.5	1197.4	940.8
42.5°	1049.0	1061.4	1103.6	1148.9	1155.6	1120.5	1109.3	1113.7	1169.3	1302.9	1021.8
45°	1113.0	1124.7	1179.0	1240.6	1272.2	1244.8	1233.4	1232.6	1278.7	1451.2	1153.1
47.5°	1205.4	1215.9	1280.0	1340.8	1397.1	1400.9	1379.2	1386.6	1416.3	1624.6	1314.1
50°	1318.9	1343.5	1385.7	1448.9	1524.2	1585.0	1591.8	1581.7	1607.2	1825.5	1507.5
52.5°	1483.6	1493.0	1531.7	1583.8	1672.0	1775.1	1855.2	1841.5	1833.5	2016.9	1702.9
55°	1606.5	1619.2	1679.2	1750.7	1880.1	2016.1	2189.6	2194.4	2093.7	2200.9	1894.0
57.5°	1569.3	1588.8	1679.7	1823.5	2107.8	2356.6	2485.7	2488.9	2334.4	2379.5	2109.9
60°	1378.6	1387.9	1518.2	1710.2	2127.3	2725.4	2905.6	2879.4	2579.4	2579.4	2300.5
62.5°	977.7	992.1	1097.8	1380.1	1921.2	2853.5	3408.6	3354.5	2916.8	2770.5	2414.1
65°	624.8	610.8	680.8	871.2	1431.2	2664.4	3846.4	3849.6	3234.3	2847.1	2352.1
67°	452.6	447.1	467.3	595.6	970.5	2239.7	3855.6	4026.3	3416.8	2798.7	2153.7
67.5°	414.0	418.2	432.9	537.3	881.7	2038.1	3813.8	4015.9	3457.9	2769.5	2081.9
70°	313.7	306.5	322.5	380.1	528.6	1285.7	3280.7	3683.2	3406.8	2480.2	1663.5
72.5°	230.8	230.0	252.2	310.8	407.0	684.8	2462.8	2953.2	2783.3	1888.5	1047.4
75°	155.7	162.7	198.1	259.7	368.9	444.1	1679.0	2142.5	1932.1	1072.4	428.1
77.5°	88.7	89.2	127.6	208.6	331.2	357.4	994.9	1364.9	1022.8	356.7	127.1
80°	38.4	42.1	63.3	151.5	274.6	316.5	570.4	750.1	413.7	75.5	41.1
82.5°	14.2	16.7	27.9	93.2	200.4	260.7	344.7	358.1	140.3	26.7	25.7
85°	0.0	0.5	10.2	43.6	104.5	116.4	230.3	212.3	62.1	12.7	16.7
87.5°	0.0	0.0	0.0	4.5	13.7	43.4	71.5	79.8	15.0	4.5	4.0
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°	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6	988.6
2.5°	981.2	965.0	924.3	883.7	853.5	828.4	790.5	769.8	758.9	742.7	743.7
5°	956.5	923.6	852.1	778.1	718.2	659.9	590.1	562.0	538.3	524.8	515.8
7.5°	919.9	871.2	765.3	666.6	574.7	472.8	396.3	345.1	310.8	298.1	285.9
10°	879.7	815.2	677.4	540.6	413.0	307.8	243.0	196.1	179.5	164.0	165.4
12.5°	842.6	764.1	596.6	426.7	289.3	195.7	152.5	133.3	127.9	126.1	126.1
15°	812.2	715.3	509.9	320.7	198.4	140.5	122.1	116.9	114.9	114.4	114.4
17.5°	779.8	668.9	431.7	237.0	144.3	117.6	111.4	107.9	107.2	106.6	106.6
20°	750.9	622.3	357.4	176.4	116.7	105.9	101.9	99.7	99.0	98.4	98.7
22.5°	723.5	580.9	287.6	133.3	102.7	96.5	92.5	90.2	88.7	87.5	87.7
25°	699.1	541.1	231.3	109.2	92.5	87.0	83.0	79.8	76.5	75.0	74.8
27.5°	681.8	506.1	180.2	93.5	83.2	77.3	72.3	68.3	64.0	61.8	61.3
30°	667.7	470.7	142.6	82.5	74.0	68.3	62.1	56.3	51.8	49.6	48.6
32.5°	658.4	437.1	112.4	73.5	66.3	59.4	52.3	46.6	41.7	39.4	38.9
35°	656.9	409.0	91.9	66.0	59.4	51.8	44.6	38.4	34.1	31.9	31.4
37.5°	667.7	387.3	77.0	60.1	53.6	45.3	37.3	31.6	27.9	26.2	25.9
40°	696.3	373.6	66.8	55.0	48.3	39.4	31.9	26.9	23.2	21.5	21.5
42.5°	750.9	374.0	60.1	50.3	43.1	33.7	27.2	22.4	19.2	17.7	17.2
45°	836.1	391.0	54.3	45.6	38.1	29.1	23.2	18.5	15.2	13.9	13.9
47.5°	950.2	424.7	49.3	40.9	33.7	24.9	19.7	15.0	12.2	11.0	11.0
50°	1099.6	478.7	45.1	36.9	29.9	21.5	16.0	12.2	9.5	8.5	8.2
52.5°	1255.5	545.5	40.1	33.4	25.7	18.2	13.0	9.5	7.2	6.5	6.3
55°	1427.7	610.8	35.4	29.9	20.9	15.2	10.2	7.4	5.2	4.5	4.5
57.5°	1601.5	674.9	29.7	24.9	16.4	11.2	8.0	5.5	3.5	2.7	2.7
60°	1748.5	695.5	25.1	20.2	12.4	8.0	5.7	3.5	2.0	1.3	1.3
62.5°	1768.7	625.8	21.2	15.4	9.0	5.5	3.0	2.0	0.8	0.5	0.5
65°	1659.0	508.4	17.7	11.7	6.0	2.7	1.3	0.8	0.2	0.0	0.0
67°	1486.6	412.2	14.5	8.7	4.2	1.7	0.8	0.2	0.0	0.0	0.0
67.5°	1442.4	393.0	13.9	8.2	3.8	1.5	0.5	0.2	0.0	0.0	0.0
70°	1131.9	294.3	9.9	5.0	2.3	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	703.5	166.5	7.2	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
75°	265.9	58.3	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	82.8	22.2	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.9	8.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.2	3.5	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.5	0.2	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)