

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: P450575

Luminaire Tested: **GALN-SA1B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450575
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-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 3501 lumens
Efficiency: N/A
Efficacy: 79.6 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

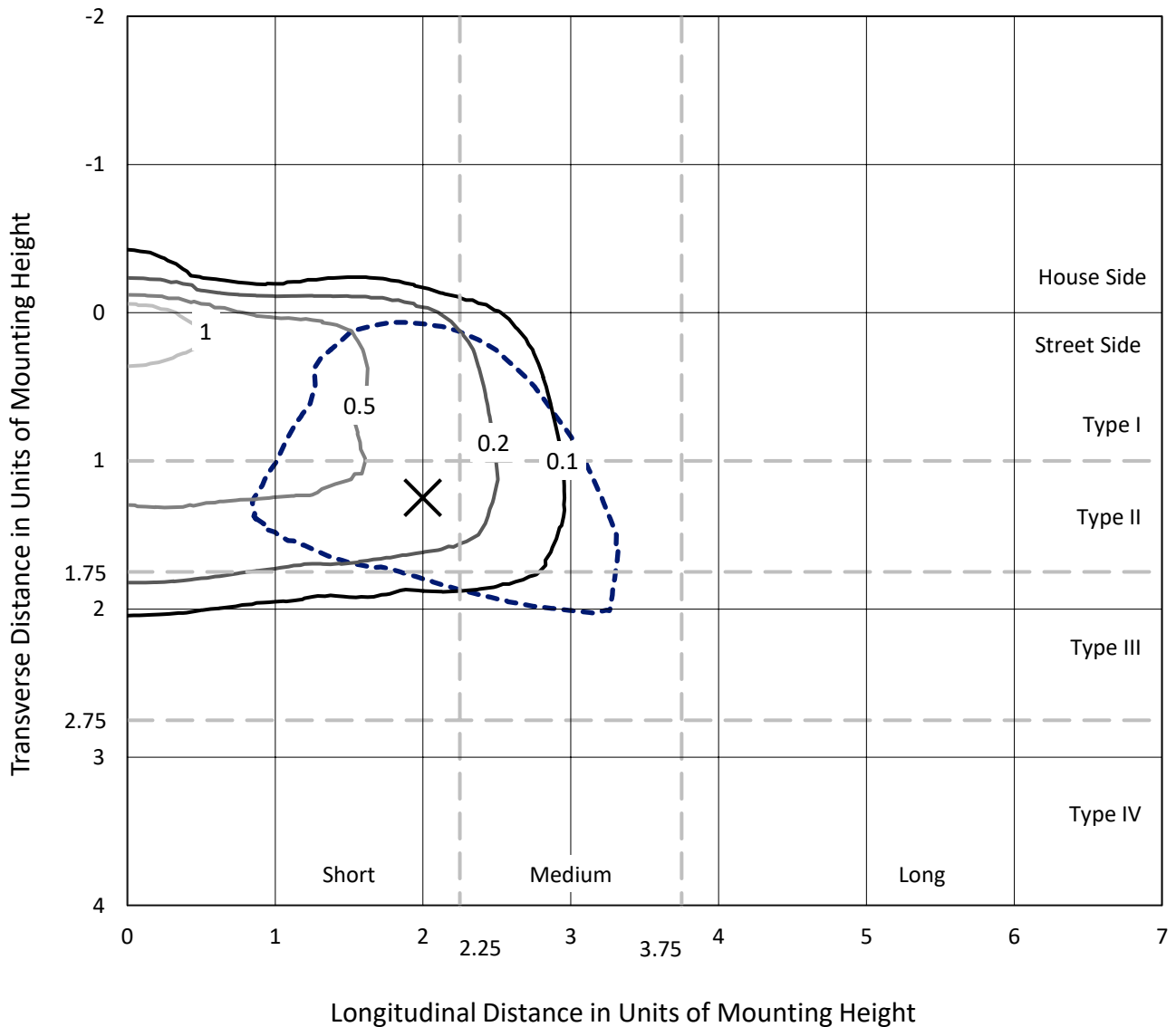
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450575
 CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

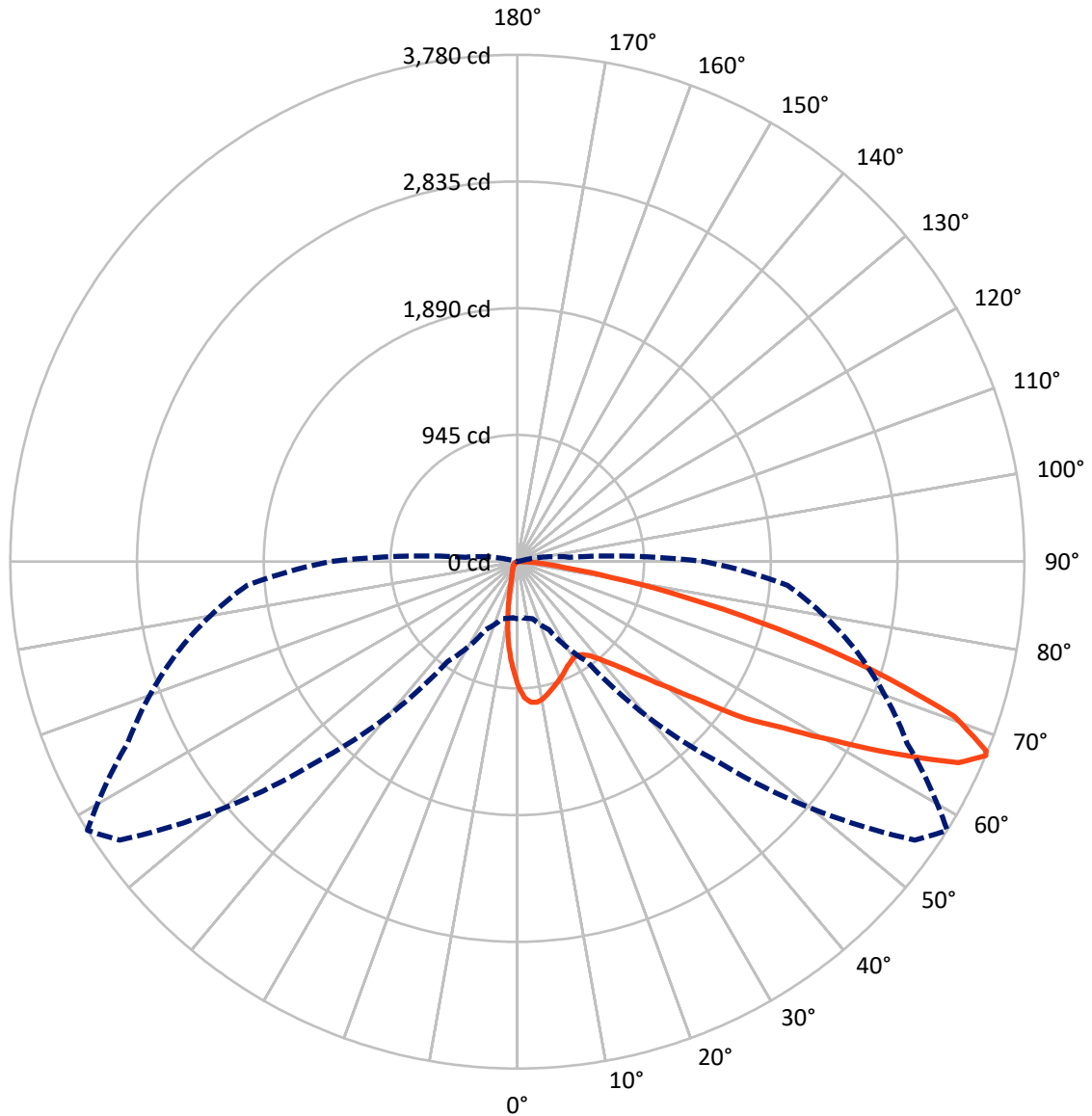
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

REPORT NUMBER: P450575
CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P450575
 CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

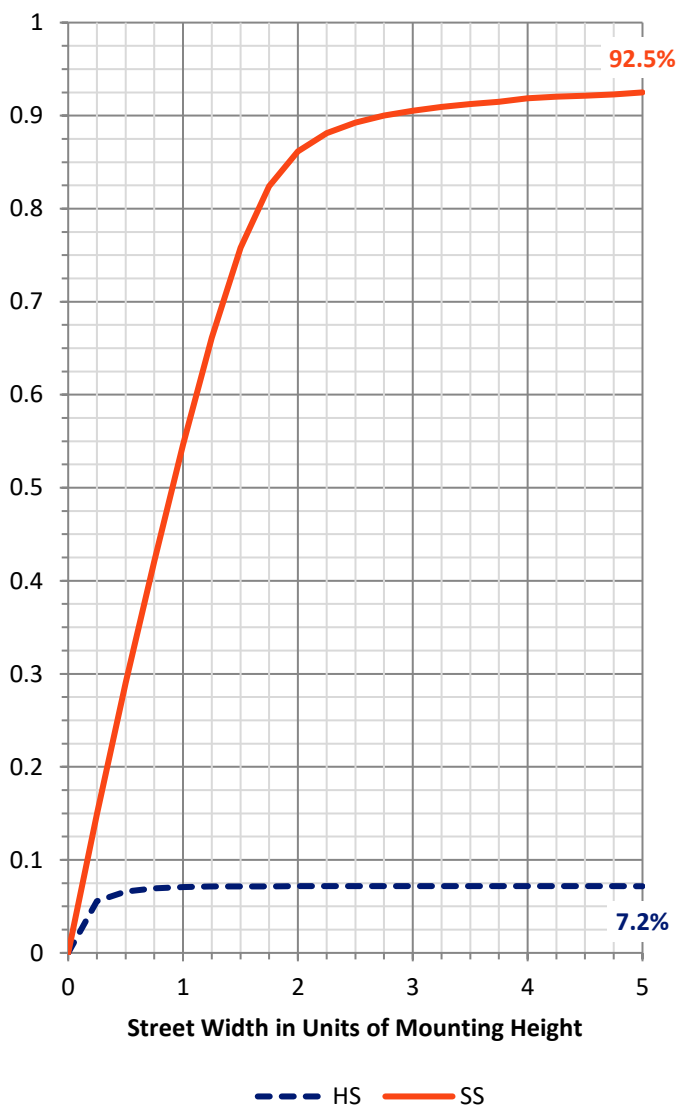
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	252.7	0.0	252.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3248.3	0.0	3248.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	3501.0	0.0	3501.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	2.2
10°-20°	162.7	4.6
20°-30°	220.4	6.3
30°-40°	305.7	8.7
40°-50°	487.5	13.9
50°-60°	842.8	24.1
60°-70°	962.7	27.5
70°-80°	401.4	11.5
80°-90°	42.6	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°	3501.0	100.0
0°-180°	3501.0	100.0



REPORT NUMBER: P450575

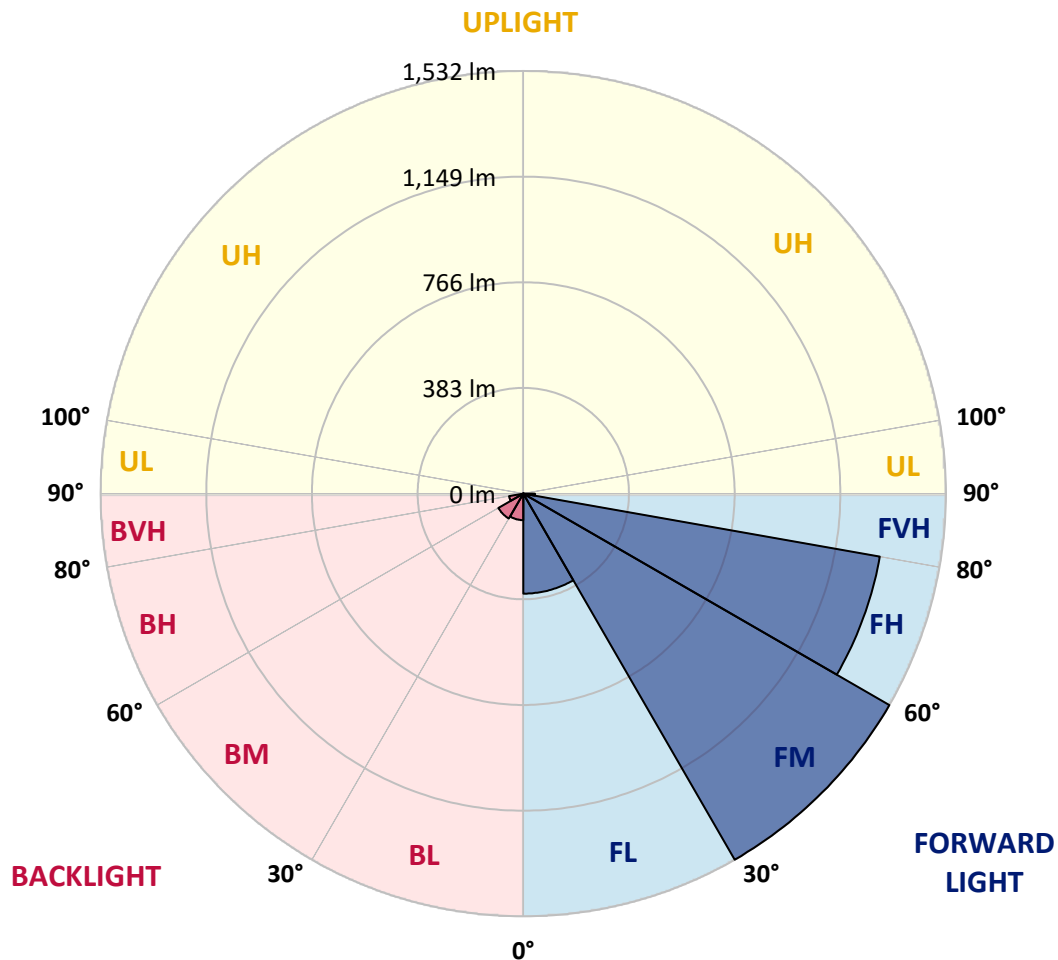
CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.4	10.4			
FM (30°-60°)	1531.8	43.8			
FH (60°-80°)	1311.8	37.5			G1/1800
FVH (80°-90°)	42.2	1.2			G1/100
BL (0°-30°)	95.9	2.7	B0/110		
BM (30°-60°)	104.2	3.0	B0/220		
BH (60°-80°)	52.2	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: P450575

CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1
2.5°	1077.1	1078.7	1072.7	1067.8	1055.1	1041.5	1023.5	1013.9	997.6	969.3	937.9
5°	1102.4	1104.5	1103.5	1102.4	1097.5	1084.4	1061.4	1053.0	1028.9	982.8	926.2
7.5°	1046.2	1053.9	1054.9	1064.0	1072.7	1073.8	1065.2	1058.9	1036.6	982.6	905.4
10°	971.8	977.0	984.5	995.0	1015.8	1033.1	1041.5	1040.6	1027.7	975.3	881.1
12.5°	896.7	899.5	911.0	929.0	954.5	984.0	1006.5	1010.9	1011.1	966.7	860.7
15°	832.2	831.0	839.9	860.7	896.5	933.5	973.7	980.7	992.0	958.3	841.8
17.5°	777.0	783.0	784.4	807.4	840.4	888.3	939.5	951.9	974.4	951.0	826.1
20°	742.8	746.1	749.1	762.0	791.7	842.2	907.5	924.6	958.0	944.5	808.5
22.5°	732.7	734.8	732.3	736.2	757.3	802.2	872.6	895.3	942.4	938.4	794.3
25°	740.5	742.6	736.5	731.8	739.1	769.7	838.9	866.6	929.7	937.2	783.5
27.5°	759.2	763.1	754.7	746.3	742.1	752.2	812.5	844.6	921.1	942.8	778.6
30°	788.4	790.8	784.4	774.1	764.6	754.5	798.7	829.4	918.7	955.9	778.1
32.5°	820.2	825.1	821.6	814.9	802.5	778.6	802.7	829.8	924.3	974.9	784.0
35°	859.5	865.2	868.4	867.0	851.1	821.4	828.0	850.9	939.3	1009.7	799.9
37.5°	898.1	903.1	921.5	927.8	913.8	885.7	877.1	892.3	972.3	1055.4	828.7
40°	942.4	948.9	974.9	999.0	992.2	962.7	946.8	959.4	1022.8	1124.1	883.2
42.5°	984.7	996.4	1035.9	1078.5	1084.8	1051.8	1041.3	1045.5	1097.7	1223.1	959.2
45°	1044.8	1055.8	1106.8	1164.6	1194.3	1168.6	1157.8	1157.1	1200.4	1362.3	1082.5
47.5°	1131.6	1141.4	1201.6	1258.7	1311.5	1315.0	1294.7	1301.7	1329.5	1525.1	1233.6
50°	1238.1	1261.2	1300.8	1360.2	1430.8	1487.9	1494.2	1484.9	1508.7	1713.7	1415.2
52.5°	1392.7	1401.6	1437.9	1486.8	1569.6	1666.4	1741.5	1728.7	1721.2	1893.4	1598.6
55°	1508.0	1520.0	1576.4	1643.5	1764.9	1892.7	2055.5	2059.9	1965.4	2066.0	1778.0
57.5°	1473.2	1491.4	1576.8	1711.8	1978.8	2212.2	2333.4	2336.5	2191.4	2233.8	1980.6
60°	1294.2	1302.9	1425.2	1605.4	1997.0	2558.5	2727.6	2703.1	2421.4	2421.4	2159.6
62.5°	917.8	931.4	1030.6	1295.6	1803.5	2678.7	3199.7	3149.0	2738.2	2600.8	2266.3
65°	586.5	573.4	639.2	817.9	1343.6	2501.2	3610.8	3613.8	3036.2	2672.7	2208.0
67°	424.9	419.7	438.7	559.1	911.0	2102.5	3619.5	3779.7	3207.5	2627.3	2021.8
67.5°	388.6	392.6	406.4	504.4	827.7	1913.2	3580.1	3769.9	3246.1	2599.9	1954.4
70°	294.5	287.8	302.7	356.8	496.2	1207.0	3079.7	3457.6	3198.1	2328.3	1561.6
72.5°	216.6	215.9	236.8	291.7	382.0	642.9	2311.9	2772.3	2612.8	1772.9	983.3
75°	146.2	152.8	186.0	243.8	346.2	416.9	1576.1	2011.3	1813.8	1006.7	401.9
77.5°	83.3	83.8	119.8	195.8	310.9	335.5	933.9	1281.3	960.1	334.8	119.3
80°	36.0	39.5	59.4	142.2	257.8	297.1	535.5	704.2	388.4	70.9	38.6
82.5°	13.3	15.7	26.2	87.5	188.1	244.7	323.6	336.2	131.7	25.0	24.1
85°	0.0	0.5	9.6	40.9	98.0	109.3	216.2	199.3	58.3	11.9	15.7
87.5°	0.0	0.0	0.0	4.2	12.9	40.7	67.1	74.9	14.0	4.2	3.7
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: P450575
 CATALOG NUMBER: GALN-SA1B-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1
2.5°	921.1	905.9	867.7	829.6	801.3	777.7	742.1	722.7	712.4	697.2	698.1
5°	897.9	867.0	799.9	730.4	674.2	619.5	554.0	527.6	505.3	492.7	484.3
7.5°	863.5	817.9	718.5	625.8	539.5	443.8	372.0	324.0	291.7	279.8	268.3
10°	825.8	765.3	635.9	507.4	387.7	288.9	228.1	184.1	168.4	153.9	155.3
12.5°	791.0	717.3	560.1	400.5	271.6	183.7	143.2	125.2	120.0	118.4	118.4
15°	762.4	671.4	478.7	301.1	186.2	131.9	114.6	109.7	107.9	107.4	107.4
17.5°	732.0	627.9	405.2	222.5	135.5	110.4	104.6	101.3	100.6	100.1	100.1
20°	704.9	584.2	335.5	165.6	109.5	99.4	95.7	93.6	92.9	92.4	92.6
22.5°	679.2	545.3	270.0	125.2	96.4	90.5	86.8	84.7	83.3	82.1	82.4
25°	656.2	507.9	217.1	102.5	86.8	81.6	77.9	74.9	71.8	70.4	70.2
27.5°	640.1	475.2	169.1	87.7	78.1	72.5	67.8	64.1	60.1	58.0	57.6
30°	626.8	441.9	133.8	77.4	69.5	64.1	58.3	52.9	48.7	46.6	45.6
32.5°	618.1	410.3	105.5	69.0	62.2	55.7	49.1	43.7	39.1	37.0	36.5
35°	616.7	383.9	86.3	62.0	55.7	48.7	41.9	36.0	32.1	29.9	29.5
37.5°	626.8	363.6	72.3	56.4	50.3	42.6	35.1	29.7	26.2	24.6	24.3
40°	653.7	350.7	62.7	51.7	45.4	37.0	29.9	25.3	21.8	20.1	20.1
42.5°	704.9	351.2	56.4	47.3	40.5	31.6	25.5	21.1	18.0	16.6	16.1
45°	784.9	367.1	51.0	42.8	35.8	27.4	21.8	17.3	14.3	13.1	13.1
47.5°	892.1	398.7	46.3	38.4	31.6	23.4	18.5	14.0	11.5	10.3	10.3
50°	1032.2	449.4	42.3	34.6	28.1	20.1	15.0	11.5	8.9	8.0	7.7
52.5°	1178.6	512.1	37.7	31.3	24.1	17.1	12.2	8.9	6.8	6.1	5.8
55°	1340.3	573.4	33.2	28.1	19.7	14.3	9.6	7.0	4.9	4.2	4.2
57.5°	1503.4	633.5	27.8	23.4	15.4	10.5	7.5	5.1	3.3	2.6	2.6
60°	1641.4	653.0	23.6	19.0	11.7	7.5	5.4	3.3	1.9	1.2	1.2
62.5°	1660.3	587.5	19.9	14.5	8.4	5.1	2.8	1.9	0.7	0.5	0.5
65°	1557.4	477.3	16.6	11.0	5.6	2.6	1.2	0.7	0.2	0.0	0.0
67°	1395.5	387.0	13.6	8.2	4.0	1.6	0.7	0.2	0.0	0.0	0.0
67.5°	1354.1	368.9	13.1	7.7	3.5	1.4	0.5	0.2	0.0	0.0	0.0
70°	1062.6	276.3	9.4	4.7	2.1	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	660.4	156.3	6.8	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
75°	249.6	54.7	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	77.7	20.8	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.2	8.0	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	3.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)