

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: P450578

Luminaire Tested: **GALN-SA1B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

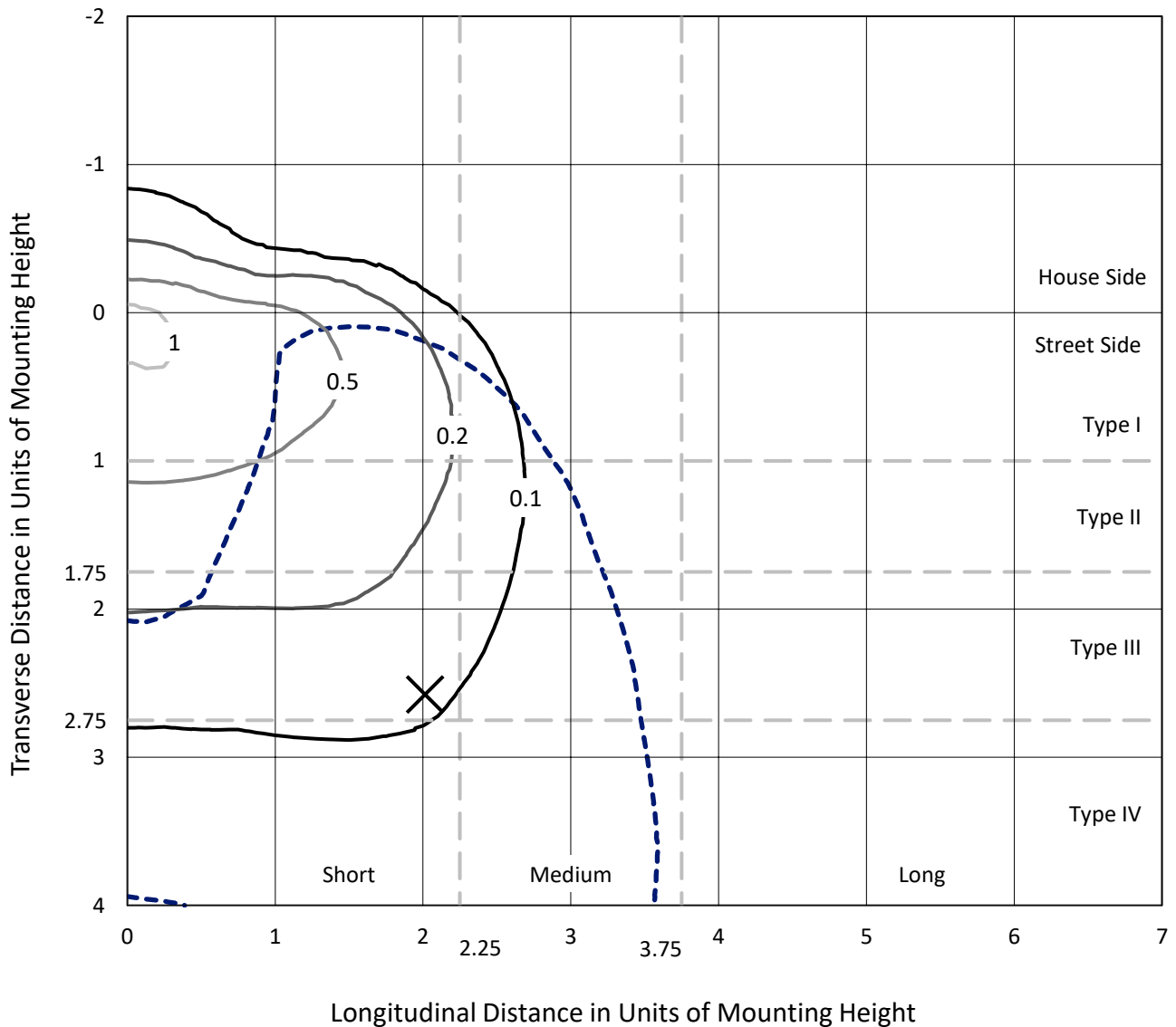
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

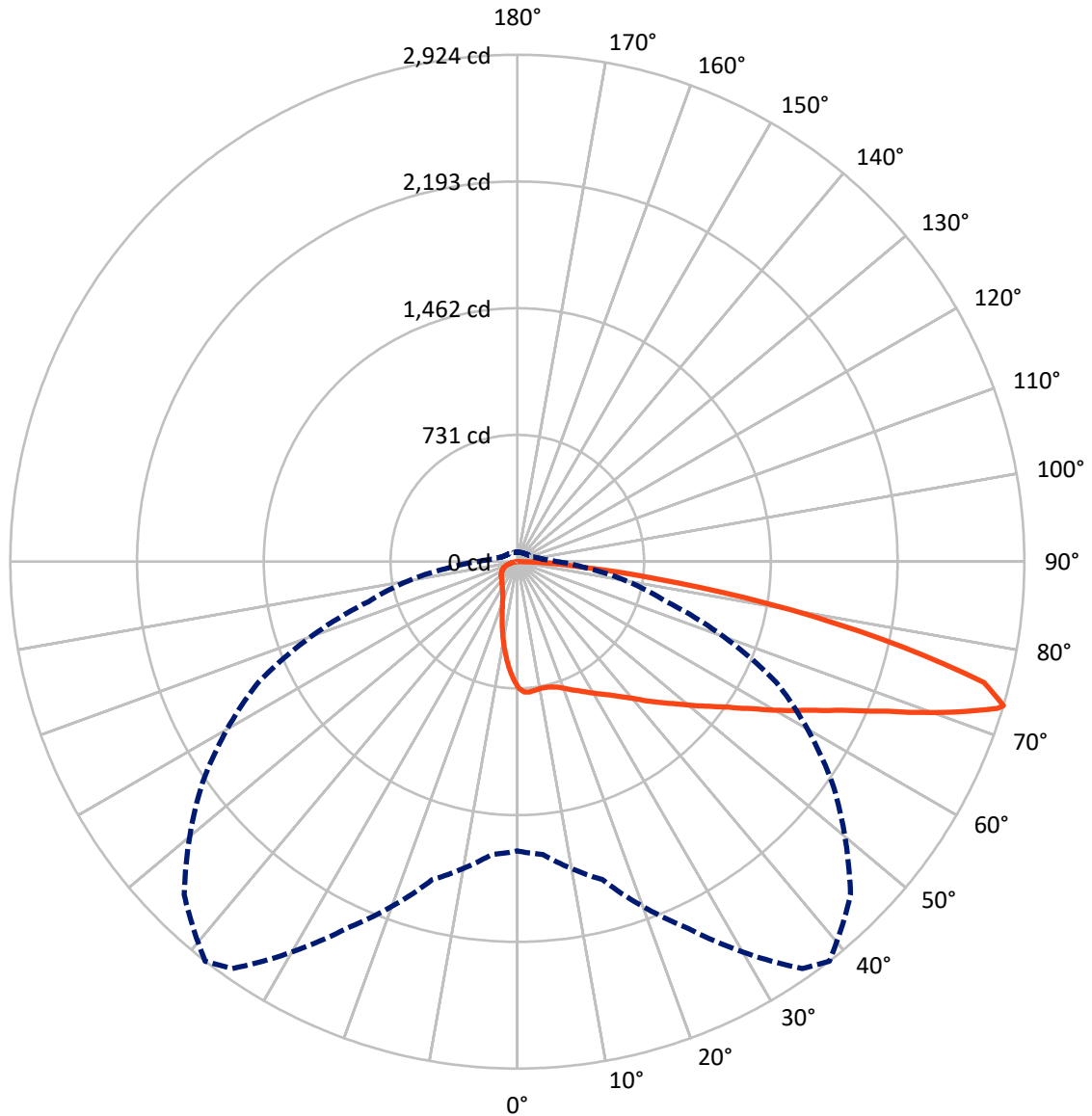
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.9	0.0	556.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3586.1	0.0	3586.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	4143.0	0.0	4143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.5
10°-20°	162.9	3.9
20°-30°	253.7	6.1
30°-40°	372.1	9.0
40°-50°	552.0	13.3
50°-60°	782.1	18.9
60°-70°	992.1	23.9
70°-80°	825.8	19.9
80°-90°	138.8	3.3
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°	4143.0	100.0
0°-180°	4143.0	100.0

Coefficient of Utilization



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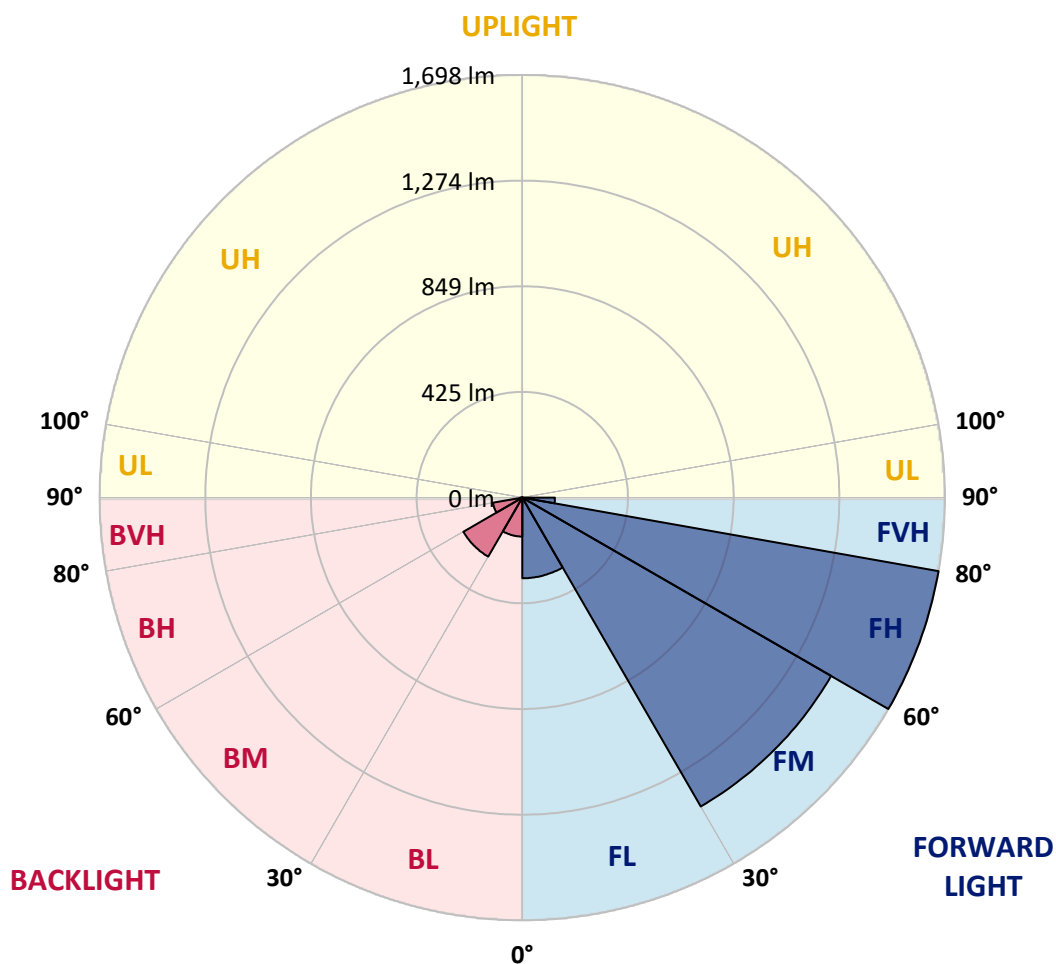
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.9	7.8			
FM (30°-60°)	1432.8	34.6			
FH (60°-80°)	1698.2	41.0			G1/1800
FVH (80°-90°)	131.2	3.2			G2/225
BL (0°-30°)	156.3	3.8	B1/500		
BM (30°-60°)	273.4	6.6	B1/1000		
BH (60°-80°)	119.7	2.9	B1/500		G1/500
BVH (80°-90°)	7.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9
2.5°	757.1	760.8	759.0	756.4	754.8	753.1	750.8	744.0	738.6	732.8	723.6
5°	762.7	765.1	763.4	760.1	756.4	754.8	750.3	741.4	732.8	722.9	709.4
7.5°	759.4	760.4	758.5	754.5	751.3	748.2	743.1	733.2	722.7	710.8	693.0
10°	747.7	751.3	751.3	748.0	744.7	743.1	737.9	728.6	719.0	705.4	684.3
12.5°	738.1	741.9	744.9	744.0	743.8	743.8	739.8	732.8	721.5	708.7	683.6
15°	731.6	736.0	742.6	746.3	748.7	749.4	747.7	741.7	730.2	715.2	686.4
17.5°	730.2	735.6	747.5	755.7	761.8	761.5	761.1	752.7	740.0	724.6	690.0
20°	736.5	743.5	760.1	773.0	781.9	780.3	777.7	766.7	752.0	734.6	693.2
22.5°	755.5	762.7	781.0	795.0	803.7	803.7	795.9	781.4	765.8	746.3	697.7
25°	782.6	790.6	810.0	824.2	828.2	825.2	817.5	799.9	781.9	763.2	707.0
27.5°	815.8	825.4	843.4	855.4	854.2	851.9	843.9	821.4	803.4	786.3	722.9
30°	857.2	864.3	883.0	885.8	881.6	881.1	869.9	847.4	830.6	817.5	745.6
32.5°	896.3	902.6	917.6	918.8	911.3	912.2	901.7	881.1	871.5	866.8	783.8
35°	937.7	941.0	953.9	952.5	947.5	946.8	942.6	923.0	926.0	934.4	837.8
37.5°	972.3	978.9	986.1	987.3	987.1	989.4	992.2	982.9	1000.4	1026.9	908.7
40°	1004.2	1009.8	1020.5	1024.3	1033.4	1038.1	1047.7	1047.9	1088.4	1131.9	996.0
42.5°	1025.7	1035.3	1055.4	1062.2	1084.4	1098.5	1112.7	1127.9	1186.7	1242.6	1098.9
45°	1044.4	1057.0	1090.5	1111.6	1141.7	1158.8	1189.0	1220.8	1305.3	1378.5	1203.5
47.5°	1072.7	1083.9	1122.3	1159.5	1205.1	1224.8	1269.9	1317.4	1427.9	1508.1	1303.6
50°	1112.0	1118.8	1157.9	1218.5	1276.7	1302.0	1361.7	1430.2	1558.9	1636.1	1391.6
52.5°	1162.3	1165.1	1196.2	1277.0	1353.7	1385.1	1464.1	1544.1	1673.5	1747.2	1461.3
55°	1221.7	1217.1	1241.4	1339.0	1441.7	1482.6	1567.5	1659.5	1802.4	1837.1	1512.1
57.5°	1280.5	1273.2	1292.6	1414.3	1550.2	1599.6	1698.6	1778.3	1917.6	1921.1	1547.7
60°	1342.7	1337.3	1360.5	1502.7	1683.4	1741.8	1833.3	1901.6	2028.9	1979.6	1553.3
62.5°	1406.6	1397.9	1430.9	1602.2	1833.3	1886.4	1975.1	2032.7	2138.2	2001.3	1499.2
65°	1468.6	1464.6	1515.6	1720.3	2004.1	2064.5	2150.6	2189.6	2225.7	1968.6	1365.2
67.5°	1534.6	1542.5	1623.9	1878.0	2226.8	2302.7	2395.5	2358.8	2250.7	1813.4	1149.7
70°	1635.2	1640.3	1766.2	2084.6	2513.9	2605.4	2650.3	2418.9	2130.0	1518.9	864.3
72.5°	1678.4	1701.1	1893.2	2301.5	2840.1	2896.0	2735.9	2284.9	1774.4	1031.8	454.1
73°	1668.8	1696.0	1899.1	2334.5	2865.6	2924.3	2717.7	2215.9	1649.4	888.6	389.3
75°	1549.3	1582.8	1823.0	2306.9	2816.0	2780.9	2424.3	1888.5	1114.6	404.1	177.3
77.5°	1222.4	1232.0	1444.5	1862.8	2217.5	2152.4	1814.4	1180.3	455.3	150.2	100.6
80°	613.2	648.5	814.2	1067.1	1482.8	1461.6	1145.2	558.2	189.7	88.2	66.7
82.5°	295.0	320.1	396.6	520.3	819.3	799.9	567.1	305.1	120.5	51.5	39.3
85°	190.0	208.7	252.4	248.2	336.9	321.7	254.8	230.9	71.4	26.9	27.4
87.5°	125.4	137.3	164.7	131.7	122.6	110.9	112.5	130.1	14.0	10.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9	727.9
2.5°	719.9	716.9	706.8	697.0	687.6	678.7	672.9	665.2	660.0	661.4	663.5
5°	701.9	695.1	677.3	660.0	643.6	624.2	608.5	595.9	586.3	582.8	582.1
7.5°	682.9	671.5	646.0	616.3	588.4	564.3	536.5	522.7	506.5	500.9	499.0
10°	671.5	656.0	620.2	578.8	536.9	496.9	466.8	442.2	420.0	415.7	413.6
12.5°	668.2	647.8	599.6	546.3	490.6	441.5	396.8	364.5	343.0	338.1	330.8
15°	666.3	641.1	580.5	513.5	442.9	383.0	336.0	298.3	278.6	265.5	265.8
17.5°	664.7	633.3	558.9	477.7	401.7	332.7	280.8	246.8	228.8	221.8	221.1
20°	662.3	624.2	534.1	440.1	354.7	286.8	239.8	214.5	202.4	196.5	196.3
22.5°	661.4	615.3	509.8	401.7	313.0	251.5	212.7	194.9	187.2	183.2	183.2
25°	663.7	609.0	484.3	365.2	276.1	221.3	194.0	181.8	177.3	175.2	174.5
27.5°	671.0	606.2	459.0	328.7	242.2	200.7	181.3	172.9	169.6	168.0	168.2
30°	684.8	606.0	434.2	292.7	216.9	185.1	171.3	165.4	162.8	161.9	161.7
32.5°	707.0	611.1	409.9	263.0	195.6	172.0	161.9	157.7	156.5	155.8	155.6
35°	744.7	625.6	385.8	235.8	179.2	160.3	153.0	150.9	149.3	150.0	150.2
37.5°	795.5	650.6	362.9	214.5	166.8	151.6	145.5	143.7	142.7	143.4	144.1
40°	863.6	686.7	343.7	197.5	157.9	144.4	139.0	137.3	136.4	137.6	137.8
42.5°	938.7	728.3	327.8	184.1	150.7	138.3	133.1	131.3	130.6	131.3	131.5
45°	1015.9	776.8	319.6	174.5	144.6	133.8	128.4	126.3	124.7	124.2	124.9
47.5°	1091.9	818.9	319.4	168.7	139.7	129.8	124.0	121.7	119.6	118.4	118.2
50°	1153.9	852.3	325.0	166.1	135.5	125.4	119.6	117.2	114.4	112.1	112.5
52.5°	1200.7	874.1	327.5	164.9	133.1	120.7	114.9	112.8	109.5	106.5	106.5
55°	1230.9	879.2	321.2	163.8	131.3	115.8	109.5	107.6	104.3	101.3	101.3
57.5°	1241.2	863.3	298.5	161.0	129.4	111.6	104.1	102.5	99.9	96.9	96.4
60°	1217.3	809.5	258.8	152.5	125.6	107.2	98.3	97.6	96.6	94.1	93.8
62.5°	1125.4	695.3	215.5	141.5	119.3	102.5	92.9	94.1	94.8	93.4	93.1
65°	972.3	564.5	184.1	126.3	110.9	95.9	87.0	90.1	91.9	91.9	91.5
67.5°	788.7	433.5	155.1	113.2	100.4	87.0	80.5	82.8	84.2	83.8	84.9
70°	560.6	293.6	126.3	98.3	87.0	77.0	72.1	72.1	71.1	70.7	70.7
72.5°	271.9	167.8	102.5	82.1	74.2	65.7	61.8	60.1	58.3	58.0	56.9
73°	227.2	150.4	97.8	79.1	71.1	64.1	59.7	57.1	55.9	55.0	54.7
75°	138.3	114.2	81.7	66.7	60.6	55.2	51.2	48.9	47.7	47.0	46.8
77.5°	91.0	85.2	63.4	51.0	46.3	43.0	41.4	39.1	38.4	37.4	37.4
80°	67.8	65.0	45.4	36.0	33.2	30.4	29.9	29.5	27.6	26.4	26.0
82.5°	43.8	46.3	30.9	24.1	21.1	18.7	19.0	19.7	17.8	16.1	15.7
85°	31.1	33.5	18.7	11.0	8.9	7.7	8.7	7.7	8.0	6.3	5.1
87.5°	5.1	8.9	3.3	1.4	0.7	0.5	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)