

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: P450591

Luminaire Tested: **GALN-SA1B-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4331 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

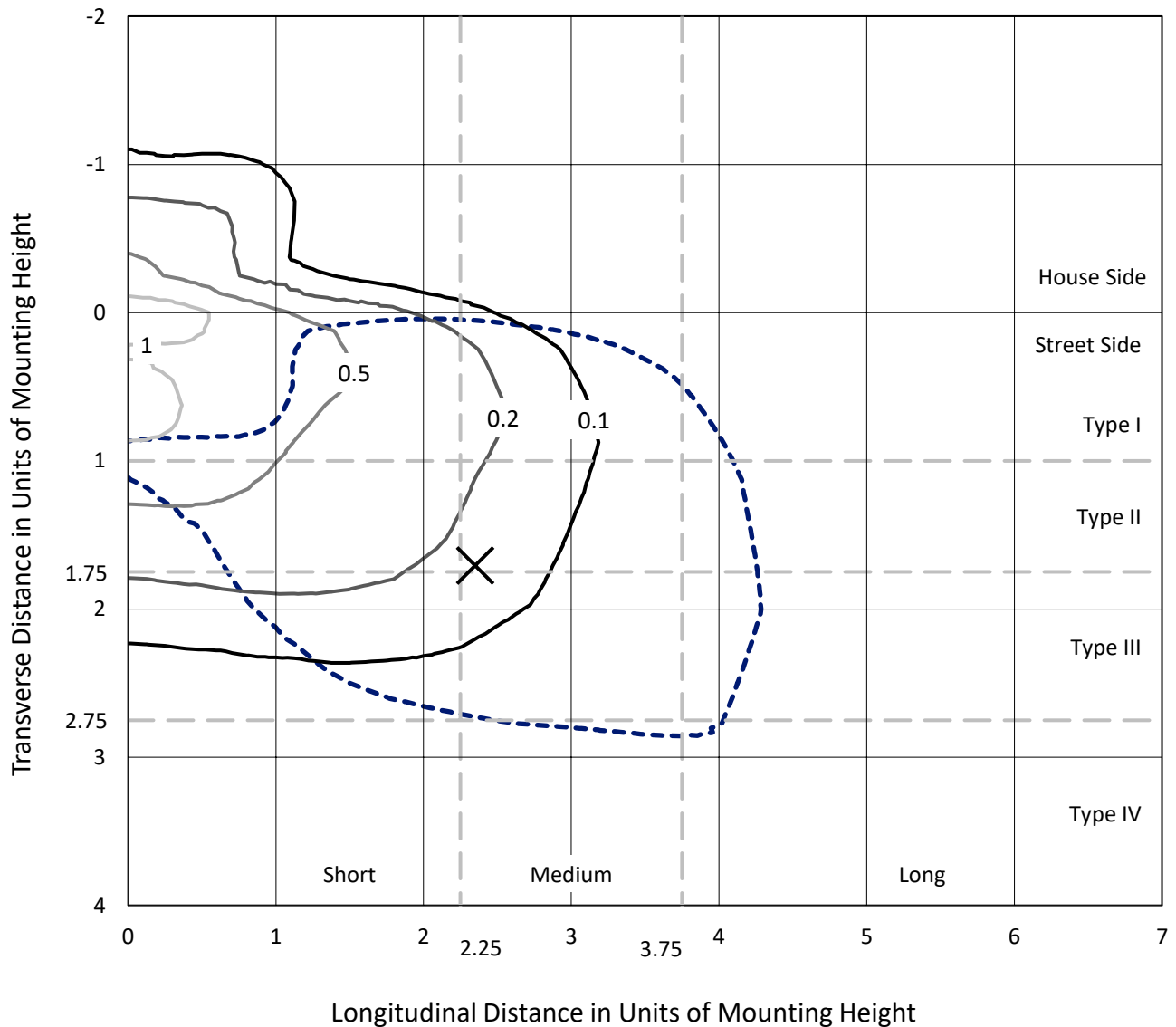
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

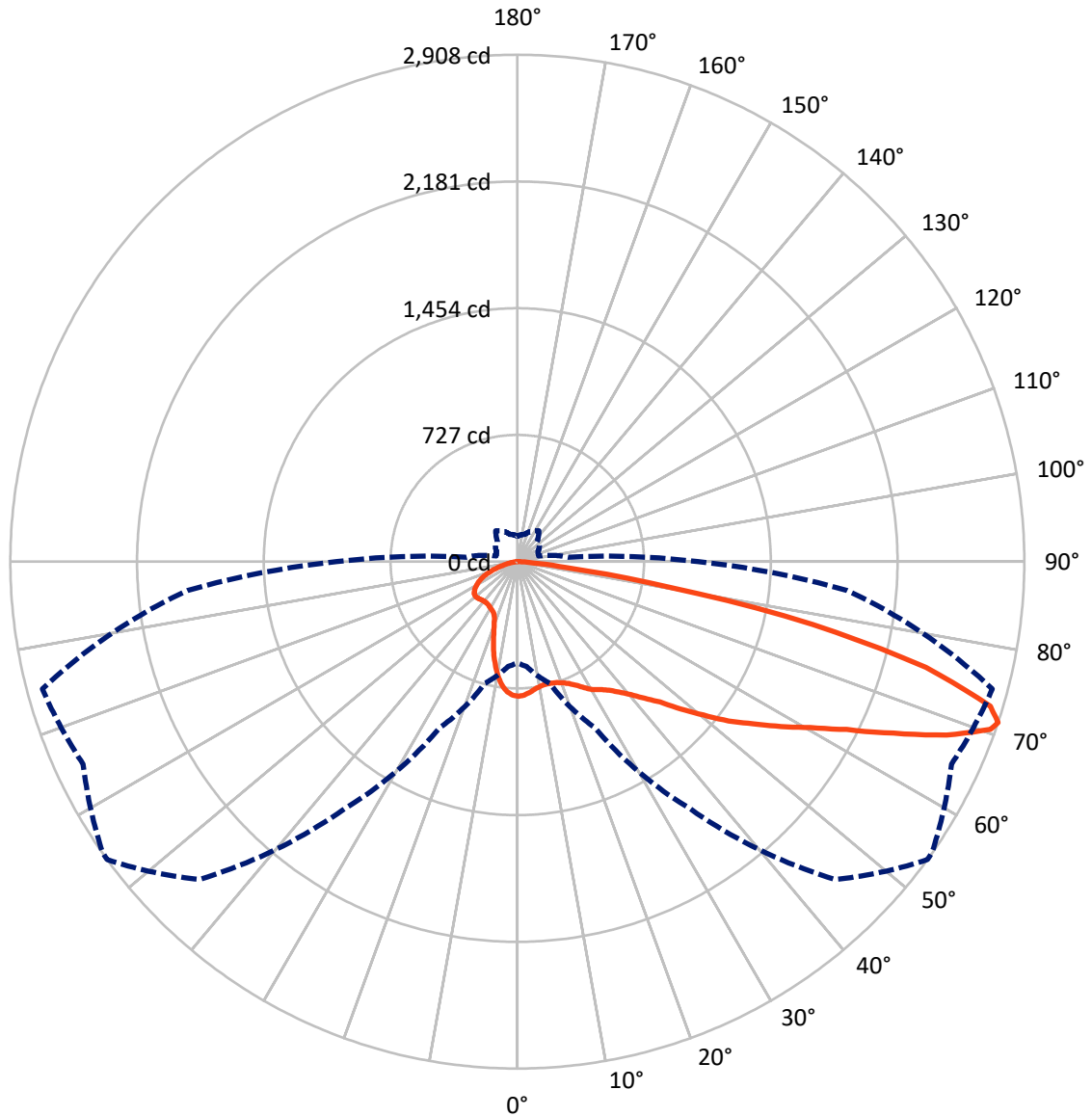
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.9	0.0	781.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3549.1	0.0	3549.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	4331.0	0.0	4331.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.6
10°-20°	181.8	4.2
20°-30°	302.7	7.0
30°-40°	447.7	10.3
40°-50°	630.6	14.6
50°-60°	844.3	19.5
60°-70°	1064.2	24.6
70°-80°	726.9	16.8
80°-90°	63.9	1.5
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°	4331.0	100.0
0°-180°	4331.0	100.0



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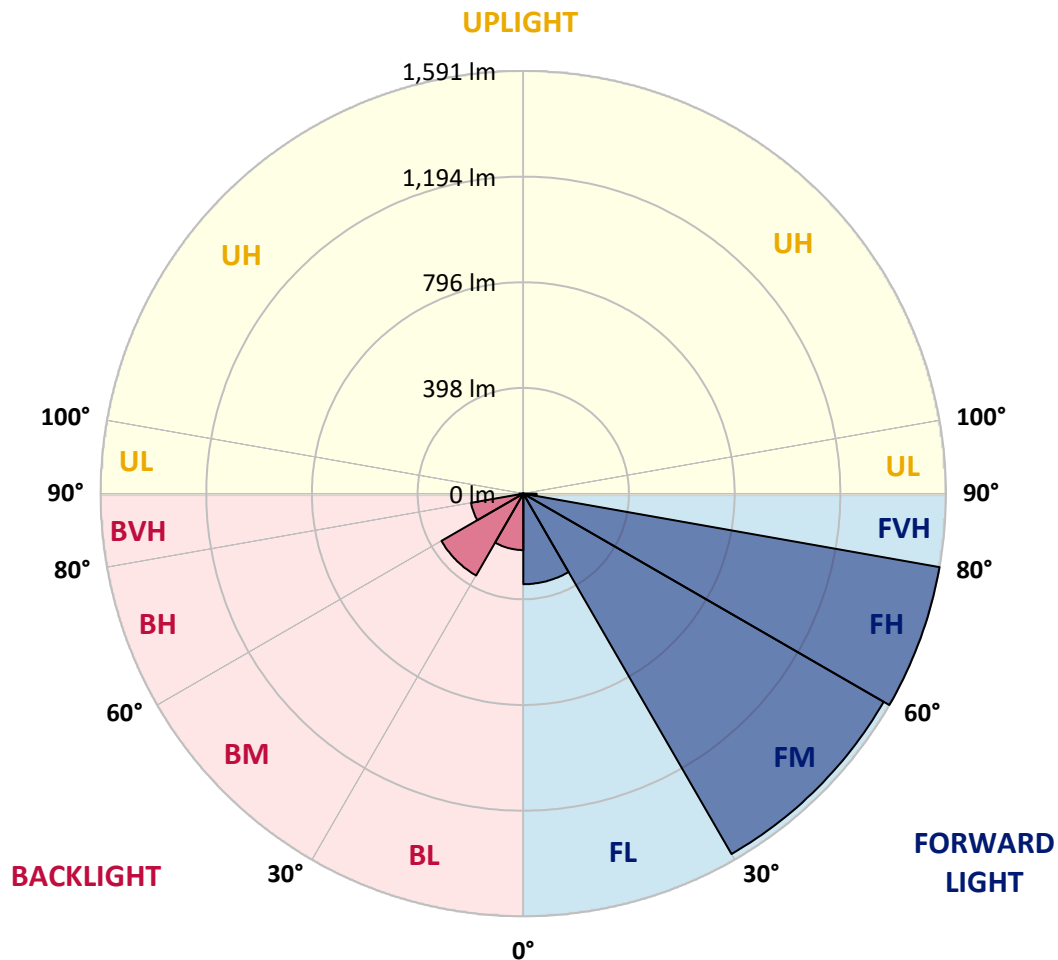
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.9	7.9			
FM (30°-60°)	1566.8	36.2			
FH (60°-80°)	1591.4	36.7			G1/1800
FVH (80°-90°)	50.0	1.2			G1/100
BL (0°-30°)	212.5	4.9	B1/500		
BM (30°-60°)	355.8	8.2	B1/1000		
BH (60°-80°)	199.7	4.6	B1/500		G1/500
BVH (80°-90°)	14.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7
2.5°	746.5	750.0	751.0	753.3	758.2	762.2	766.2	765.7	771.3	773.7	775.8
5°	713.3	714.2	717.7	722.4	731.1	742.1	752.8	753.1	766.9	777.9	783.2
7.5°	689.0	692.0	694.3	699.3	708.4	720.3	737.4	738.8	763.4	785.1	796.6
10°	673.1	676.6	679.1	685.2	694.3	707.7	726.2	728.7	760.8	796.6	816.7
12.5°	658.6	662.1	664.4	672.4	684.3	700.7	721.5	724.5	761.7	809.9	838.7
15°	667.4	670.2	669.3	671.7	679.6	698.3	723.4	726.4	765.2	822.8	860.4
17.5°	707.0	709.3	701.6	692.7	689.0	702.8	729.2	732.5	772.2	836.1	882.7
20°	765.2	771.5	754.7	734.8	716.8	718.7	741.4	744.9	782.1	849.4	905.4
22.5°	841.0	845.7	825.1	792.4	759.1	742.1	759.6	761.7	796.8	866.8	930.2
25°	930.2	933.0	904.4	862.3	814.4	782.1	784.6	788.4	821.1	886.4	952.1
27.5°	1016.7	1025.6	992.6	941.2	878.0	824.2	819.0	821.4	847.6	897.4	967.4
30°	1119.4	1118.7	1083.9	1024.2	943.3	870.0	851.6	851.1	861.8	902.8	978.4
32.5°	1201.3	1210.9	1176.7	1111.7	1017.9	917.5	874.0	873.1	872.8	912.1	994.7
35°	1294.4	1295.8	1264.5	1199.0	1098.6	977.2	905.4	900.7	895.3	932.3	1017.0
37.5°	1377.7	1384.2	1355.5	1282.0	1177.9	1039.2	948.4	945.4	929.0	967.1	1052.5
40°	1442.7	1447.6	1430.3	1360.4	1256.0	1106.1	1003.1	997.5	977.6	1024.2	1100.0
42.5°	1464.0	1474.1	1480.9	1446.5	1345.9	1185.4	1070.5	1063.5	1048.3	1110.8	1154.7
45°	1465.7	1481.6	1517.4	1519.0	1436.2	1280.4	1149.1	1144.2	1143.0	1221.7	1231.7
47.5°	1453.3	1469.4	1529.5	1562.0	1516.7	1376.3	1262.6	1254.9	1255.6	1358.7	1318.0
50°	1423.3	1442.5	1515.5	1589.6	1579.6	1475.9	1382.4	1379.8	1394.3	1515.3	1407.6
52.5°	1366.9	1390.1	1501.0	1607.0	1626.4	1561.8	1518.5	1511.3	1548.0	1685.1	1505.7
55°	1210.9	1245.7	1447.9	1616.5	1670.8	1643.9	1641.1	1654.2	1702.9	1870.4	1613.5
57.5°	1129.5	1155.7	1332.5	1618.2	1727.0	1739.4	1784.3	1787.6	1872.7	2067.1	1735.4
60°	1085.0	1108.2	1269.4	1607.4	1805.3	1857.5	1930.7	1942.4	2038.6	2280.2	1861.7
62.5°	1046.2	1066.1	1231.5	1570.2	1893.8	2032.7	2120.5	2126.1	2226.9	2515.6	1986.4
65°	954.7	977.4	1155.2	1533.0	1970.0	2251.7	2372.2	2365.6	2427.4	2718.7	2064.5
67.5°	831.4	860.2	1012.7	1404.6	2007.7	2491.0	2655.7	2647.5	2625.3	2851.8	2087.0
70°	674.0	689.4	830.5	1182.6	1857.3	2616.7	2879.6	2871.0	2747.9	2869.3	1980.8
71°	579.9	604.0	723.1	1050.4	1732.1	2578.3	2908.4	2906.0	2748.1	2820.9	1900.8
72.5°	452.7	467.4	572.7	813.9	1472.2	2360.3	2837.3	2846.2	2688.5	2686.4	1735.9
75°	286.3	292.9	359.3	479.1	807.8	1671.5	2422.0	2446.1	2387.2	2198.8	1290.9
77.5°	166.3	174.8	215.2	282.4	349.0	907.2	1733.1	1759.3	1658.7	1210.7	528.5
80°	96.9	106.2	141.8	164.0	160.3	336.6	882.4	927.1	718.2	305.8	148.3
82.5°	53.8	60.1	99.7	99.9	85.4	110.0	277.7	290.6	204.9	123.3	60.6
85°	39.1	44.2	64.3	58.3	40.9	47.3	96.6	101.3	82.8	51.9	19.7
87.5°	13.8	19.7	35.3	28.1	11.2	9.8	27.8	22.7	21.1	14.5	4.4
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°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7
2.5°	776.9	777.4	775.1	770.8	766.6	761.3	755.2	750.5	748.4	748.2	747.9
5°	785.3	786.5	777.6	764.5	750.0	732.2	717.0	699.7	695.3	688.3	690.4
7.5°	798.9	798.2	780.7	752.8	718.9	681.2	649.4	630.9	611.8	606.4	606.6
10°	818.3	813.9	780.7	729.0	672.4	616.4	572.0	543.9	528.7	516.1	511.4
12.5°	838.9	827.7	773.2	695.5	612.5	543.9	496.2	458.3	448.5	438.2	438.4
15°	858.6	839.9	758.4	648.5	547.9	466.5	420.2	397.5	394.4	395.6	395.4
17.5°	876.4	848.5	736.0	596.1	472.6	400.0	375.5	377.1	385.3	391.2	391.9
20°	894.4	853.7	702.5	525.9	401.4	359.8	360.7	373.6	386.0	394.0	395.1
22.5°	911.4	856.0	663.2	458.1	350.0	342.7	356.5	370.3	382.5	390.2	391.4
25°	922.7	850.6	607.6	387.2	324.7	336.6	351.1	362.8	373.1	381.1	383.0
27.5°	925.7	833.3	538.5	329.9	313.0	330.8	344.1	352.8	360.7	368.2	369.6
30°	924.1	807.8	462.7	296.2	306.2	324.0	334.3	340.6	350.2	356.1	357.2
32.5°	921.5	778.1	383.7	278.2	300.6	317.7	323.8	329.4	329.2	326.8	328.5
35°	922.4	742.5	319.6	267.4	295.7	313.0	318.2	311.1	291.0	290.1	289.2
37.5°	927.4	707.4	273.0	259.9	293.1	312.3	315.1	282.8	265.1	256.9	254.8
40°	940.0	666.5	242.4	254.3	292.9	317.7	301.3	268.6	234.4	218.5	217.3
42.5°	956.8	626.3	223.6	250.8	295.7	325.9	295.7	248.4	211.3	201.9	200.5
45°	981.9	580.2	213.4	249.1	299.9	328.9	293.8	233.7	201.9	194.4	194.4
47.5°	1010.2	536.2	207.7	248.0	305.3	326.8	277.2	229.0	197.4	198.4	202.8
50°	1038.2	498.1	203.5	245.4	310.0	325.6	270.4	228.8	198.6	210.5	218.5
52.5°	1070.8	471.2	198.4	241.2	310.0	318.2	268.3	233.5	201.9	205.4	208.9
55°	1110.1	462.7	191.8	232.1	304.4	299.4	267.2	240.3	204.2	196.0	197.4
57.5°	1162.0	476.3	185.5	220.6	291.5	280.0	266.7	242.1	198.9	192.1	190.7
60°	1222.4	503.2	183.6	208.9	273.9	263.4	263.9	236.8	191.4	184.3	185.5
62.5°	1264.7	519.4	182.5	200.0	254.8	245.2	257.1	230.2	188.1	182.0	183.2
65°	1264.7	499.7	171.7	186.5	230.0	223.2	248.9	222.0	183.9	176.9	175.7
67.5°	1216.7	442.4	155.3	166.1	202.6	198.1	237.5	212.2	177.6	172.2	169.4
70°	1091.8	335.5	134.8	142.2	168.0	171.9	222.7	198.9	167.0	160.5	156.3
71°	1036.8	292.2	126.1	130.1	154.6	160.5	215.7	193.2	162.4	153.0	145.5
72.5°	930.9	246.1	113.0	114.6	132.2	142.7	201.0	182.5	153.5	140.1	131.7
75°	707.2	179.7	91.0	90.1	97.8	113.2	170.1	162.6	134.5	116.5	111.6
77.5°	305.5	97.8	68.1	68.8	66.4	85.9	133.8	139.7	115.3	94.7	90.3
80°	92.6	56.4	46.6	47.5	44.4	57.6	94.3	109.5	92.6	73.7	67.6
82.5°	47.5	33.7	31.8	31.3	28.3	32.5	57.1	74.9	66.2	46.1	40.7
85°	20.6	18.0	15.7	15.2	13.3	11.7	20.4	37.4	35.1	25.7	24.6
87.5°	5.1	4.7	3.0	2.8	1.6	0.2	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)