

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: P526239

Luminaire Tested: **GALN-SA1A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2432 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 33
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

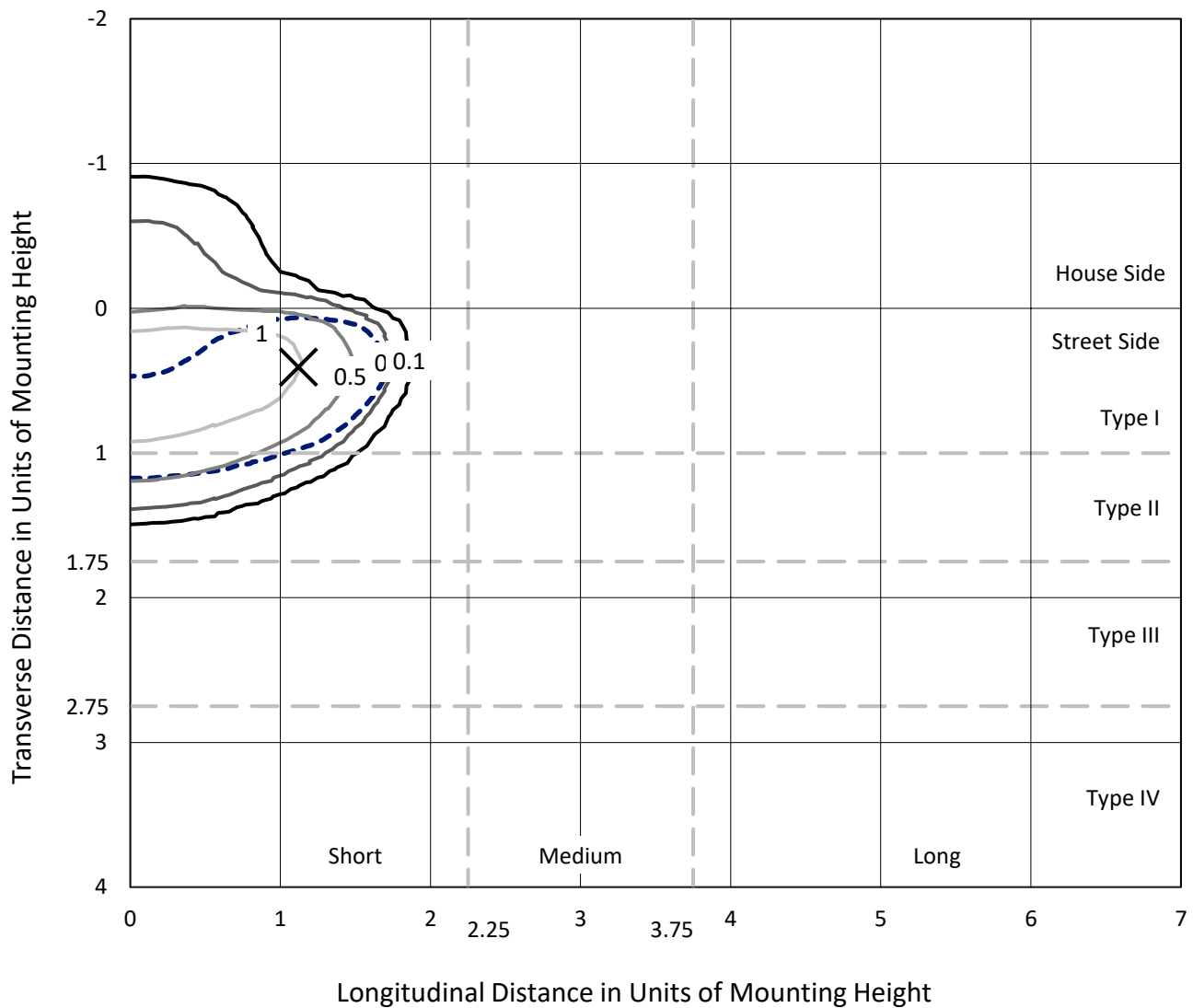


REPORT NUMBER: P526239

CATALOG NUMBER: GALN-SA1A-830-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

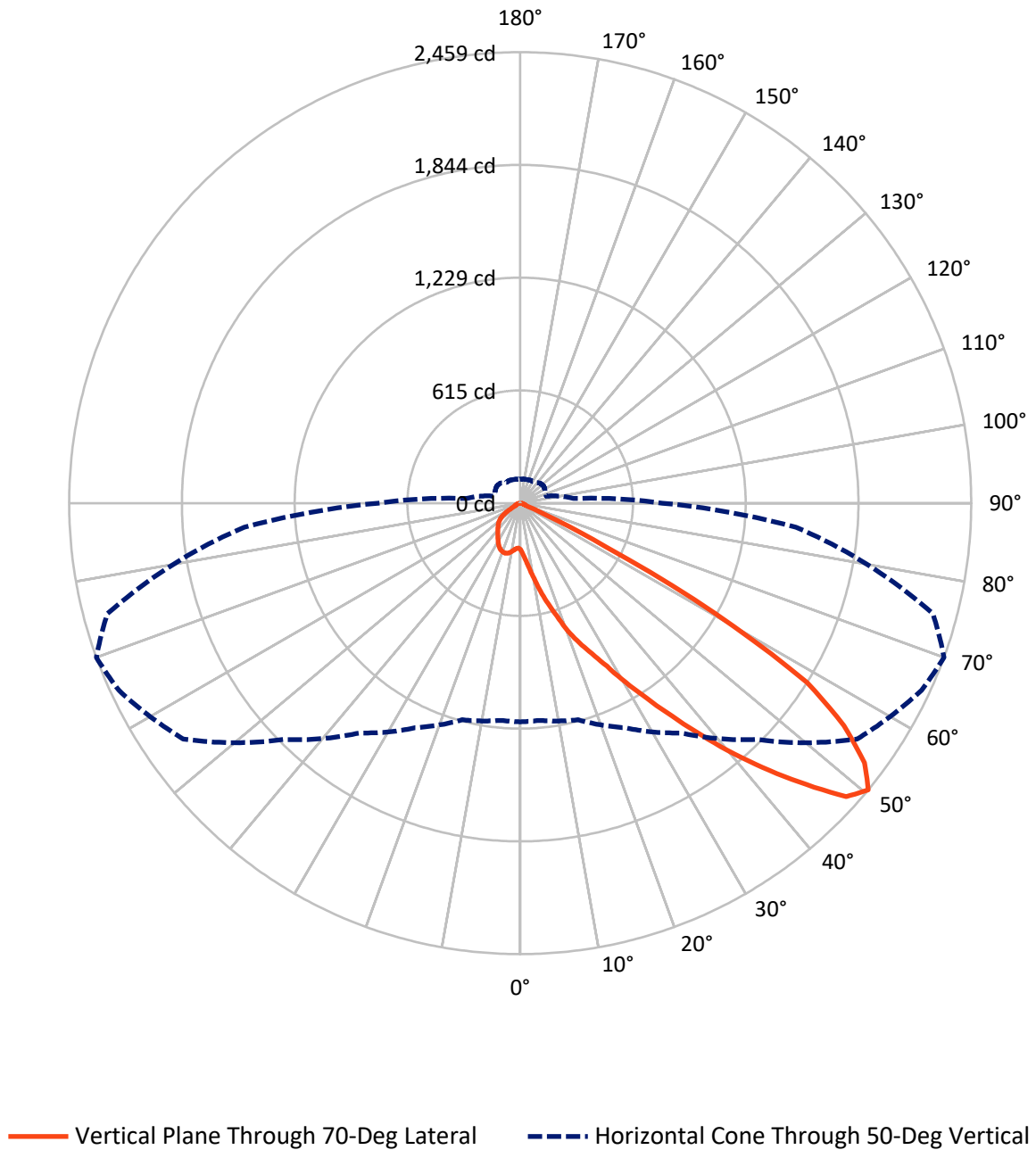


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - N/A

REPORT NUMBER: P526239

CATALOG NUMBER: GALN-SA1A-830-U-T2R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P526239

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	339.6	0.0	339.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2092.4	0.0	2092.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	2432.0	0.0	2432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	1.3
10°-20°	141.7	5.8
20°-30°	297.3	12.2
30°-40°	512.4	21.1
40°-50°	748.8	30.8
50°-60°	583.2	24.0
60°-70°	98.8	4.1
70°-80°	13.6	0.6
80°-90°	3.5	0.1
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°	2432.0	100.0
0°-180°	2432.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526239

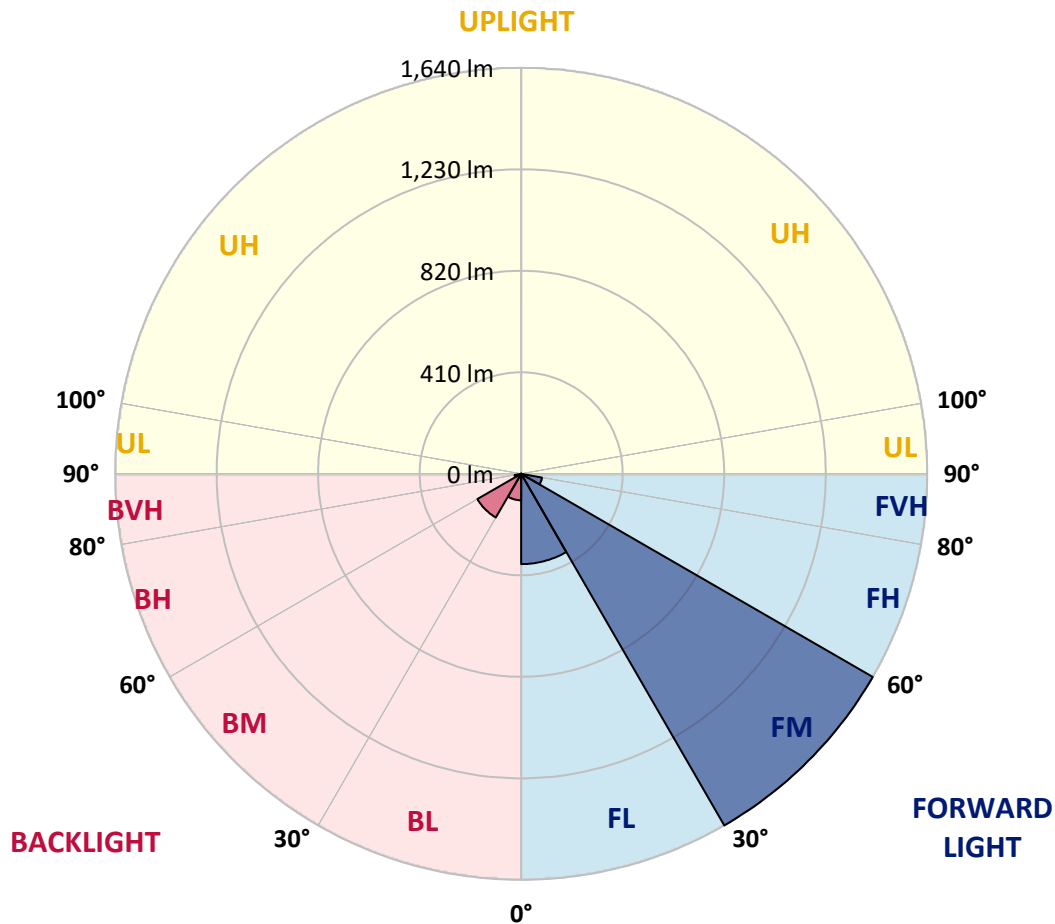
CATALOG NUMBER: GALN-SA1A-830-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.8	15.0			
FM	(30°-60°)	1640.3	67.4			
FH	(60°-80°)	85.6	3.5			G0/660
FVH	(80°-90°)	1.6	0.1			G0/10
BL	(0°-30°)	106.9	4.4	B0/110		
BM	(30°-60°)	204.0	8.4	B0/220		
BH	(60°-80°)	26.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type I Short



REPORT NUMBER: P526239

CATALOG NUMBER: GALN-SA1A-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9
2.5°	329.9	327.5	322.3	312.7	308.7	299.1	293.5	282.7	275.9	268.3	259.9
5°	464.6	452.2	444.6	433.8	402.3	382.7	350.3	322.7	309.9	295.9	276.7
7.5°	603.8	595.8	585.4	562.2	540.6	499.8	444.2	383.5	357.5	333.5	295.5
10°	718.9	696.5	695.3	678.2	654.6	605.8	539.0	463.4	417.0	381.9	322.3
12.5°	799.3	778.9	788.1	786.1	764.1	719.3	642.2	542.2	493.8	439.0	349.9
15°	872.5	864.1	861.3	858.9	850.1	816.9	747.7	638.2	568.2	502.2	381.1
17.5°	944.1	922.5	932.9	934.9	934.1	904.1	839.3	729.3	647.0	569.0	413.8
20°	1007.6	1009.6	995.6	992.8	990.4	989.2	926.1	819.7	743.7	639.0	456.6
22.5°	1089.2	1075.2	1087.6	1079.6	1064.0	1054.4	1006.0	899.7	827.7	723.3	500.2
25°	1185.6	1196.8	1167.6	1164.4	1147.2	1114.0	1070.4	989.2	908.5	801.7	547.4
27.5°	1304.3	1284.7	1277.1	1259.5	1228.3	1214.4	1163.2	1081.6	1006.0	884.1	593.0
30°	1406.3	1401.1	1363.1	1342.3	1315.1	1314.7	1243.1	1206.8	1133.2	1013.2	655.8
32.5°	1489.5	1466.7	1452.7	1438.3	1416.3	1422.3	1361.9	1342.7	1268.7	1133.2	729.7
35°	1545.0	1528.6	1520.2	1498.2	1491.9	1518.6	1493.5	1485.5	1424.7	1301.9	816.5
37.5°	1562.6	1567.8	1566.2	1538.6	1552.2	1624.6	1657.0	1636.2	1604.2	1479.9	910.5
40°	1578.2	1581.8	1573.8	1606.2	1645.0	1727.4	1844.5	1810.1	1798.1	1660.2	1041.2
42.5°	1587.0	1584.2	1584.2	1640.2	1699.0	1864.5	2025.7	2002.9	1993.7	1852.1	1192.4
45°	1549.0	1521.8	1551.0	1627.0	1745.4	1932.1	2170.4	2202.0	2188.8	2080.4	1369.1
47.5°	1407.1	1423.9	1440.3	1541.8	1689.0	1911.3	2259.2	2366.7	2391.1	2272.4	1485.1
50°	1192.4	1188.8	1222.8	1350.7	1529.4	1821.7	2242.0	2414.3	2458.7	2329.9	1509.4
52.5°	867.3	893.7	930.5	1057.6	1269.5	1589.8	2020.1	2291.6	2350.7	2259.2	1493.5
55°	505.0	475.8	558.6	666.2	866.1	1199.2	1707.8	2031.3	2140.8	2130.4	1412.7
57.5°	202.3	195.9	224.3	302.3	451.8	743.3	1241.9	1669.0	1844.5	1951.3	1241.5
60°	88.8	86.8	102.0	123.2	184.7	342.7	679.4	1038.0	1221.2	1363.5	854.5
62.5°	64.0	63.2	70.8	78.4	97.6	149.1	285.5	418.2	521.4	629.8	382.7
65°	51.6	53.6	58.8	62.8	72.0	82.8	100.8	116.4	142.7	147.9	84.4
67.5°	42.0	43.6	48.4	52.8	54.4	44.8	46.4	40.8	40.8	36.4	29.2
70°	30.8	31.2	36.8	42.0	33.6	18.0	31.6	31.6	28.4	27.2	24.8
72.5°	22.8	23.2	27.6	26.0	13.2	11.2	23.2	25.6	23.2	22.0	20.0
75°	16.8	17.2	14.4	6.0	5.6	7.2	13.6	17.6	16.8	16.4	15.2
77.5°	3.2	2.4	2.0	2.8	4.0	6.0	8.8	10.8	11.2	12.0	11.2
80°	0.4	0.4	1.2	2.4	4.4	6.4	9.2	10.4	10.8	11.2	10.4
82.5°	0.0	0.4	1.2	2.4	4.4	6.0	8.0	9.2	10.0	10.4	10.0
85°	0.0	0.4	0.8	2.0	3.6	4.4	4.0	2.8	2.4	2.8	2.0
87.5°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P526239

CATALOG NUMBER: GALN-SA1A-830-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9
2.5°	255.1	253.5	247.9	241.9	236.7	239.1	236.7	234.7	235.5	234.7	233.9
5°	269.1	261.9	249.9	244.7	240.3	239.9	238.7	238.3	238.7	238.7	235.1
7.5°	282.3	270.7	257.9	252.3	247.1	247.5	244.7	244.7	244.3	242.3	241.5
10°	302.3	286.7	270.3	260.3	253.9	252.7	249.9	247.1	247.1	247.1	243.1
12.5°	324.3	304.7	282.3	270.7	263.1	257.1	252.7	251.9	247.5	246.7	244.7
15°	343.5	318.7	290.3	274.3	264.7	256.7	249.9	245.5	243.5	242.3	240.7
17.5°	362.3	330.7	294.7	274.3	263.9	254.7	247.5	243.5	238.7	239.5	236.3
20°	387.5	343.5	295.9	269.1	256.3	247.5	237.9	235.9	233.1	230.7	231.5
22.5°	411.8	352.7	292.3	262.7	244.3	233.9	229.1	226.7	225.5	223.5	220.7
25°	433.8	362.7	286.7	251.1	231.5	223.9	219.5	219.1	216.3	216.3	211.1
27.5°	456.2	366.3	277.1	237.5	220.3	215.9	213.9	213.1	211.9	209.1	205.5
30°	481.8	367.5	263.1	223.5	210.3	205.5	208.3	210.3	205.1	199.9	201.5
32.5°	503.0	364.7	246.3	210.3	203.1	200.7	206.3	208.3	202.3	196.7	193.9
35°	528.6	357.9	229.9	199.9	195.9	200.7	205.5	205.5	193.5	186.7	185.1
37.5°	567.4	350.3	214.7	191.1	188.3	198.3	204.7	200.3	181.5	173.1	171.1
40°	609.0	345.5	199.9	182.3	184.3	194.3	197.9	184.3	165.1	159.9	158.3
42.5°	669.4	335.9	186.7	174.7	180.7	188.7	188.7	164.3	157.1	154.3	153.9
45°	744.5	329.1	175.1	168.3	175.5	177.5	171.1	153.9	148.7	147.9	148.3
47.5°	781.3	315.9	163.1	160.7	165.9	166.3	149.5	145.5	141.1	139.9	139.1
50°	775.7	292.3	147.5	150.7	157.9	153.9	136.3	137.1	133.2	132.8	130.8
52.5°	736.5	255.1	132.0	139.5	147.5	135.9	125.6	124.8	124.8	119.6	117.6
55°	653.0	205.5	113.2	122.8	132.4	114.4	111.6	110.8	108.8	104.0	102.8
57.5°	517.0	150.7	85.2	95.6	112.4	97.2	96.8	93.2	88.0	84.4	84.4
60°	307.5	86.8	53.6	58.4	74.4	78.8	87.6	86.0	77.2	71.6	70.0
62.5°	140.3	44.8	34.0	34.8	40.0	51.2	68.8	79.6	67.2	57.6	56.8
65°	47.2	33.2	28.0	26.8	27.6	30.8	41.2	56.4	53.6	44.4	42.8
67.5°	28.8	29.6	26.4	24.4	24.4	24.0	23.6	25.6	31.6	30.8	31.2
70°	24.8	27.2	24.4	22.0	21.2	20.0	16.8	14.0	12.0	14.0	14.8
72.5°	20.0	21.6	20.8	18.8	16.8	15.2	12.0	9.2	6.8	6.0	6.0
75°	14.8	16.0	16.8	14.4	12.8	10.8	8.8	6.0	3.6	2.4	2.4
77.5°	10.8	12.0	12.4	11.2	9.6	7.6	5.6	4.0	2.0	0.8	0.8
80°	9.2	10.8	12.0	11.2	10.0	7.2	5.2	2.8	1.6	0.4	0.4
82.5°	8.8	10.8	12.0	10.8	9.6	6.8	5.2	3.2	1.2	0.4	0.4
85°	2.0	2.8	3.6	4.4	5.2	5.2	4.0	2.4	1.2	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	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)