

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: P526241

Luminaire Tested: **GALN-SA1A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2196 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

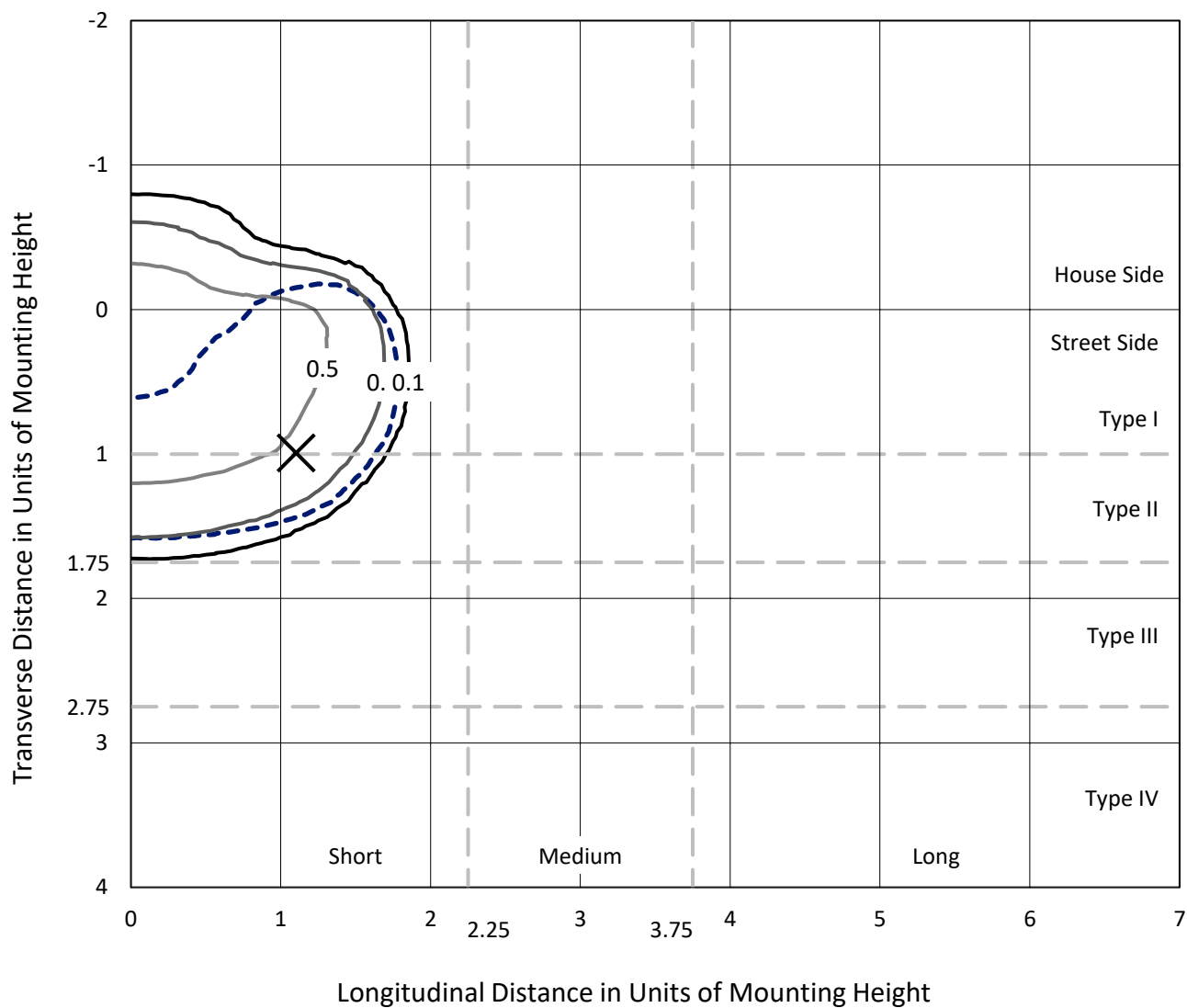
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

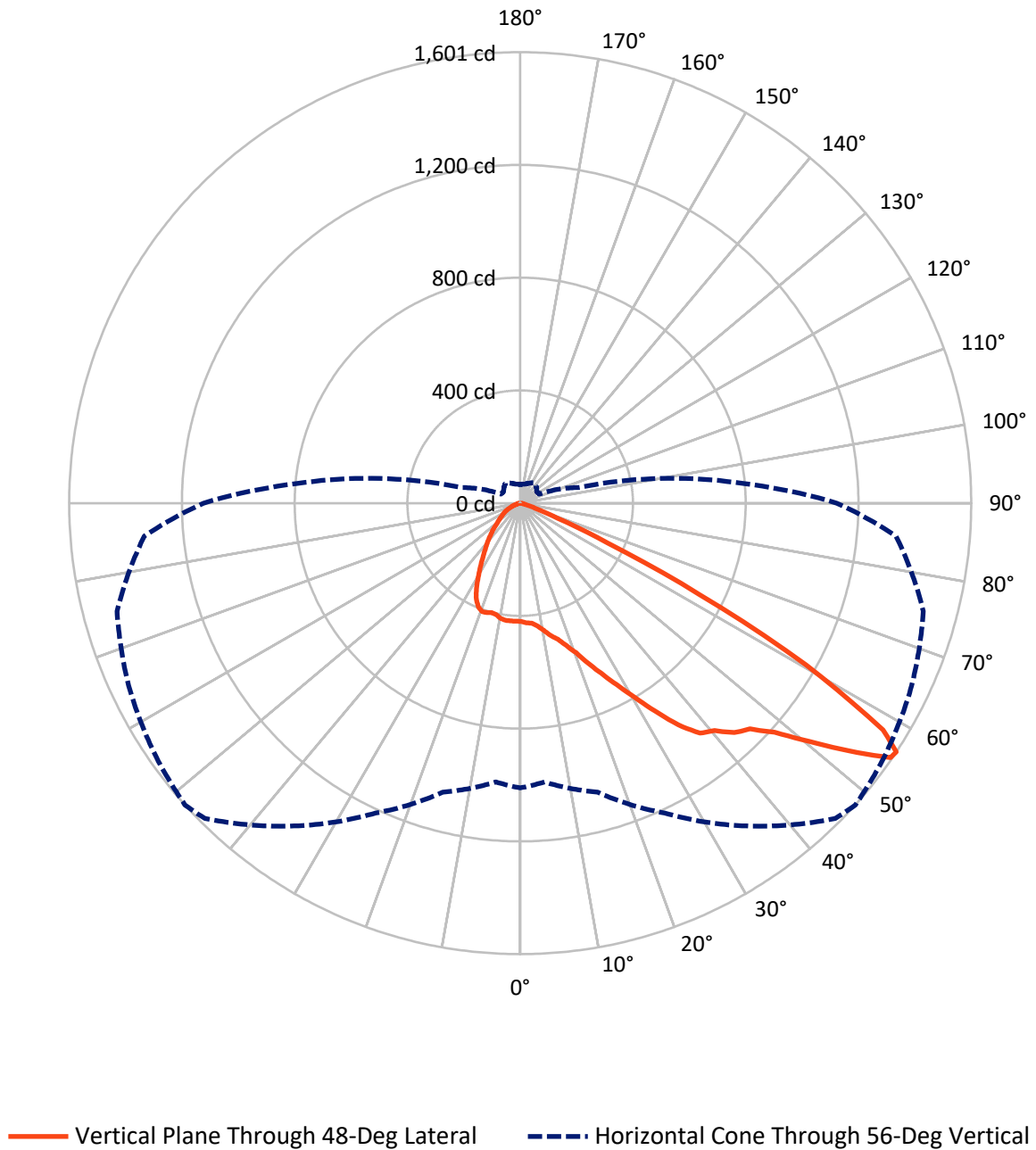
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.6	0.0	477.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1718.4	0.0	1718.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	2196.0	0.0	2196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.9
10°-20°	130.6	5.9
20°-30°	236.8	10.8
30°-40°	372.0	16.9
40°-50°	542.7	24.7
50°-60°	653.9	29.8
60°-70°	191.5	8.7
70°-80°	24.3	1.1
80°-90°	3.4	0.2
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°	2196.0	100.0
0°-180°	2196.0	100.0

Coefficient of Utilization



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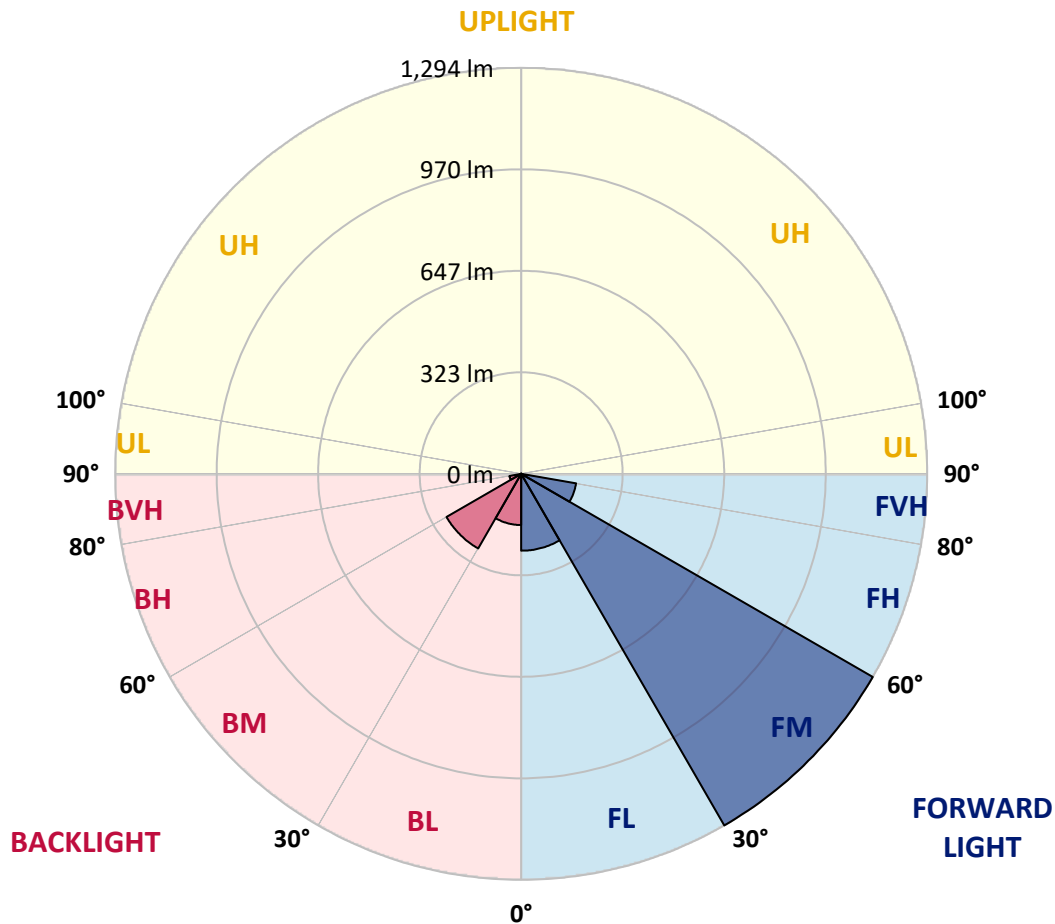
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.0	11.2			
FM	(30°-60°)	1293.9	58.9			
FH	(60°-80°)	177.8	8.1			G0/660
FVH	(80°-90°)	1.7	0.1			G0/10
BL	(0°-30°)	163.2	7.4	B1/500		
BM	(30°-60°)	274.7	12.5	B1/1000		
BH	(60°-80°)	38.0	1.7	B0/110		G0/110
BVH	(80°-90°)	1.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
2.5°	427.0	425.0	425.0	421.8	425.4	423.8	425.0	421.0	425.0	419.0	423.8
5°	429.0	429.4	427.8	429.8	429.8	432.2	428.2	431.8	433.8	429.4	427.4
7.5°	439.4	440.2	439.8	438.2	441.4	441.0	440.6	437.8	438.6	437.0	434.6
10°	459.8	459.4	461.4	457.4	455.0	457.8	458.6	454.2	451.0	449.8	442.2
12.5°	489.4	484.6	481.8	477.8	479.0	475.0	482.2	474.6	473.0	465.8	458.2
15°	513.4	512.6	513.0	506.6	499.4	501.0	501.0	497.0	494.6	485.8	475.0
17.5°	562.6	545.8	549.4	541.4	535.4	535.0	531.4	532.2	525.8	507.4	491.0
20°	601.0	593.8	588.2	574.6	565.4	568.2	566.6	562.6	560.6	536.6	513.4
22.5°	635.4	637.8	628.6	625.0	612.2	613.4	616.6	613.0	597.8	573.0	538.6
25°	683.7	680.9	668.5	664.1	652.1	656.5	668.9	666.1	656.5	611.8	558.2
27.5°	740.9	731.3	733.7	713.7	702.1	714.5	729.3	743.3	716.1	657.3	581.4
30°	781.3	771.3	770.5	769.7	766.9	781.3	798.5	811.3	789.3	702.9	619.8
32.5°	801.3	803.7	810.5	808.1	832.5	862.1	880.1	898.5	870.9	777.3	670.5
35°	854.5	839.3	854.5	856.1	881.3	944.0	966.8	1010.8	1004.0	882.5	732.5
37.5°	885.7	884.5	886.5	901.6	926.0	1003.6	1036.0	1070.0	1057.2	945.6	809.7
40°	937.2	940.4	940.0	951.6	978.4	1048.4	1061.6	1089.2	1090.4	1033.2	923.2
42.5°	1020.0	1007.2	998.8	1010.8	1048.4	1087.2	1113.6	1108.0	1147.6	1139.6	1069.2
45°	1094.4	1102.0	1089.6	1109.6	1123.2	1144.0	1143.2	1155.2	1205.5	1243.5	1179.1
47.5°	1163.9	1168.7	1174.7	1188.3	1217.9	1221.1	1214.3	1209.1	1278.7	1317.9	1264.3
50°	1205.5	1209.9	1237.9	1262.3	1317.5	1324.7	1328.7	1315.5	1362.7	1367.1	1344.7
52.5°	1194.3	1199.1	1238.3	1318.7	1406.7	1472.6	1460.6	1438.2	1435.4	1452.6	1419.0
55°	1095.2	1090.8	1144.8	1269.9	1434.6	1593.0	1594.6	1571.0	1525.8	1514.2	1407.9
56°	1010.8	993.6	1062.4	1213.5	1398.7	1582.6	1600.6	1575.4	1533.0	1481.0	1338.7
57.5°	828.1	844.5	912.8	1038.0	1274.3	1507.8	1518.2	1512.2	1480.2	1393.1	1177.9
60°	456.6	485.4	545.8	698.9	907.2	1157.2	1165.5	1214.3	1220.3	1066.8	810.5
62.5°	193.9	190.7	253.5	366.3	516.6	698.5	714.1	764.1	773.3	615.0	406.6
65°	78.8	83.2	114.8	184.3	273.1	318.3	340.3	356.7	387.0	253.9	149.9
67.5°	52.0	51.6	67.6	105.2	147.1	141.9	141.9	149.9	138.7	103.6	64.8
70°	37.2	38.4	48.4	72.8	91.6	68.0	65.2	62.4	70.8	68.4	52.4
72.5°	24.4	26.0	32.4	43.6	47.6	37.2	37.2	44.8	58.4	55.2	42.8
75°	16.0	16.4	20.0	25.2	23.6	19.2	21.2	30.0	42.4	40.8	30.4
77.5°	10.8	11.2	13.6	16.4	13.2	10.8	11.6	15.2	20.8	20.8	16.0
80°	4.0	4.4	5.6	5.2	6.0	7.6	8.4	10.4	12.4	12.4	10.8
82.5°	0.0	0.4	1.2	2.8	4.4	6.0	6.8	8.0	9.2	10.4	10.0
85°	0.0	0.4	1.2	2.0	3.2	3.6	4.0	2.8	2.4	2.4	2.0
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4
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°	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4	419.4
2.5°	419.4	419.0	419.0	417.8	420.2	419.0	419.8	419.4	414.2	418.2	415.4
5°	423.8	426.6	422.2	421.4	418.2	419.4	419.4	415.4	419.0	418.6	417.8
7.5°	435.0	430.2	425.4	420.6	419.8	418.6	414.2	412.6	415.4	412.2	417.0
10°	439.8	440.6	433.4	427.0	421.0	412.6	406.6	403.0	398.6	403.4	406.2
12.5°	461.8	453.8	441.4	431.4	411.0	402.6	396.6	395.0	402.6	404.2	401.4
15°	469.4	468.2	452.2	429.8	408.6	398.6	399.8	396.6	397.4	393.4	394.2
17.5°	485.0	471.4	452.6	424.6	408.2	405.8	398.6	385.9	378.7	375.5	378.3
20°	502.2	489.0	461.8	426.6	411.8	405.4	381.9	366.3	351.5	343.5	343.9
22.5°	517.4	501.0	457.8	427.4	415.0	388.6	360.3	329.5	311.1	298.7	299.1
25°	535.8	512.6	459.4	429.0	406.6	361.9	321.1	291.1	269.1	260.7	263.5
27.5°	546.2	519.8	468.2	432.6	384.7	323.9	279.9	251.9	239.1	235.1	234.7
30°	577.4	535.8	479.0	425.4	347.9	283.1	242.3	225.1	212.7	209.1	209.9
32.5°	623.8	565.0	493.0	406.6	310.3	246.7	217.9	205.1	193.5	186.7	185.9
35°	662.5	615.0	507.8	377.5	266.7	218.7	200.7	184.7	167.1	159.5	157.5
37.5°	736.5	671.3	504.6	333.5	225.1	197.9	182.3	162.7	147.5	137.1	135.9
40°	834.9	737.3	489.0	279.9	194.3	179.5	162.7	143.9	125.2	116.4	115.6
42.5°	954.4	818.1	460.6	225.5	163.5	161.1	145.9	124.4	107.6	101.2	101.6
45°	1051.6	887.3	431.8	181.1	140.7	143.1	129.9	109.6	98.0	92.8	92.8
47.5°	1138.0	934.0	400.6	149.5	119.6	125.2	113.6	101.6	91.6	87.6	86.8
50°	1221.1	981.6	369.5	121.2	102.0	107.6	106.4	96.8	88.8	84.0	84.4
52.5°	1273.1	989.2	329.9	99.2	89.2	95.6	99.6	90.8	82.0	79.2	78.4
55°	1209.5	891.3	255.9	81.6	75.6	84.0	91.6	81.6	74.8	70.0	69.6
56°	1124.0	796.9	213.9	75.2	71.6	80.8	88.8	78.0	70.4	67.6	65.6
57.5°	951.6	652.1	157.9	66.8	66.4	75.2	84.4	74.4	65.6	63.2	63.2
60°	593.4	367.1	95.6	56.0	57.6	66.8	76.0	66.4	58.4	58.4	59.6
62.5°	270.3	152.7	58.0	47.6	49.6	57.6	67.6	60.0	55.6	60.0	60.8
65°	92.0	66.0	42.0	38.0	39.2	47.6	58.0	60.8	60.4	63.2	64.8
67.5°	51.6	42.4	35.2	31.6	30.8	35.2	47.6	60.8	58.4	57.2	58.0
70°	43.6	36.0	31.2	28.0	26.8	28.4	36.8	46.0	41.2	40.0	39.2
72.5°	35.2	30.0	27.2	25.2	21.6	18.4	16.8	17.6	19.6	20.8	22.8
75°	24.8	22.8	22.8	20.4	15.6	11.6	9.2	7.6	5.2	3.6	4.0
77.5°	14.0	14.0	14.4	12.4	10.0	7.6	5.6	4.0	2.0	0.8	0.4
80°	9.6	10.4	11.2	10.0	8.4	6.8	4.8	2.8	1.2	0.0	0.0
82.5°	9.6	10.8	11.6	10.0	8.4	6.4	4.8	2.8	1.2	0.4	0.0
85°	2.0	2.4	2.8	3.2	4.8	4.8	3.6	2.4	1.2	0.4	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)