

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: P530195

Luminaire Tested: **GALN-SA5B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12740 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

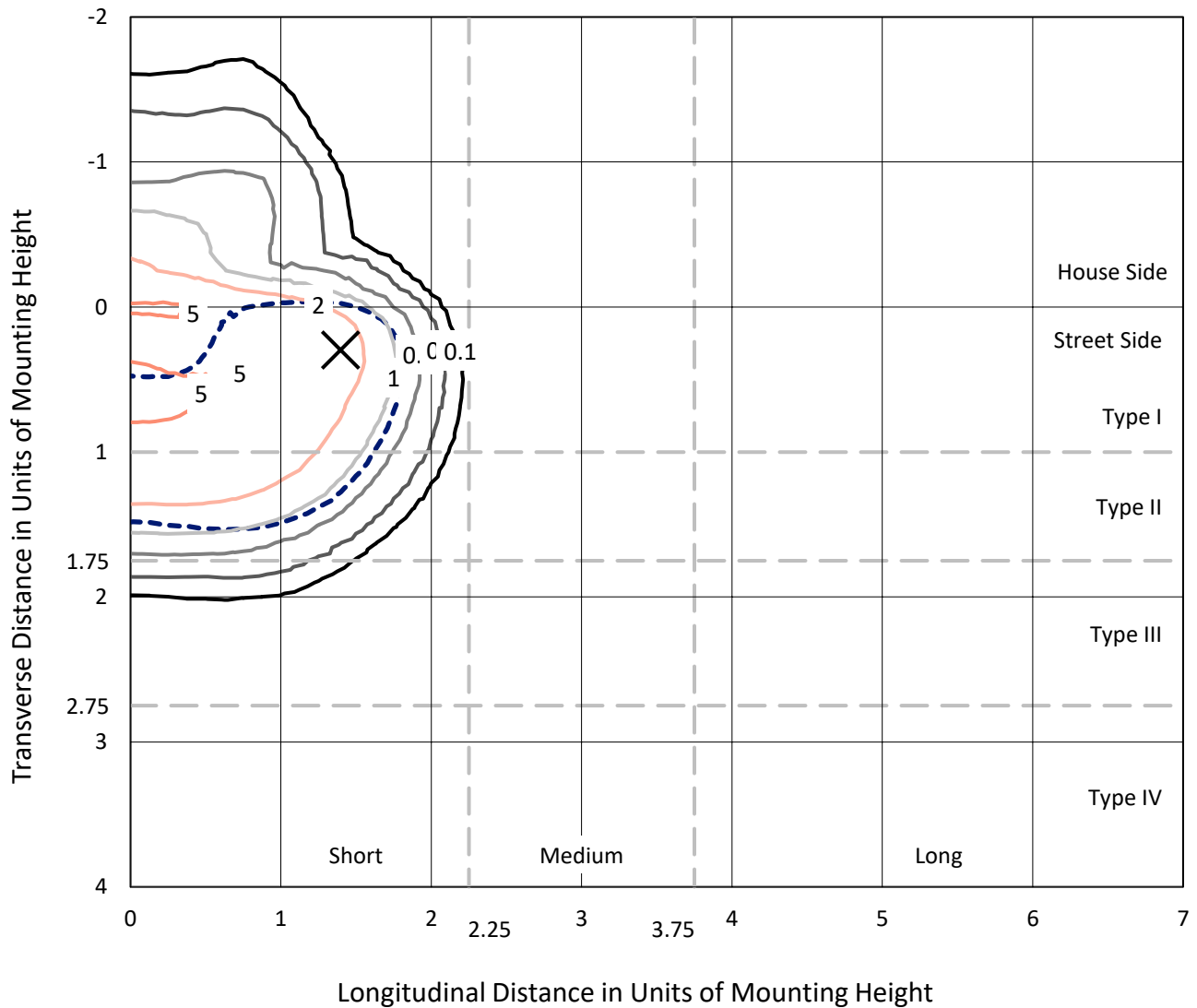
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

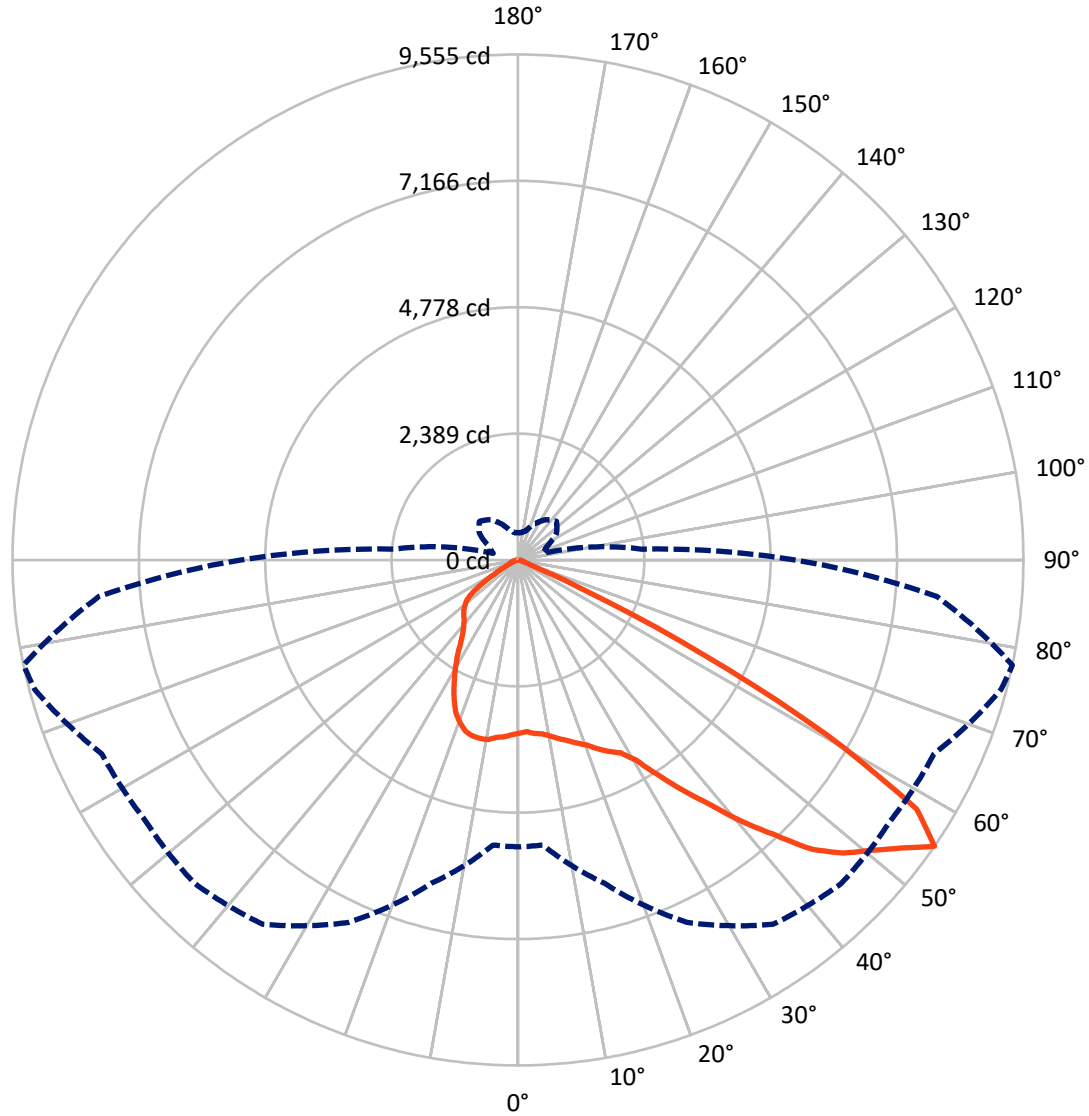
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2366.3	0.0	2366.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10373.7	0.0	10373.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	12740.0	0.0	12740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	2.3
10°-20°	773.0	6.1
20°-30°	1354.9	10.6
30°-40°	2234.0	17.5
40°-50°	3250.7	25.5
50°-60°	3683.4	28.9
60°-70°	1053.2	8.3
70°-80°	81.8	0.6
80°-90°	17.0	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°	12740.0	100.0
0°-180°	12740.0	100.0

Coefficient of Utilization



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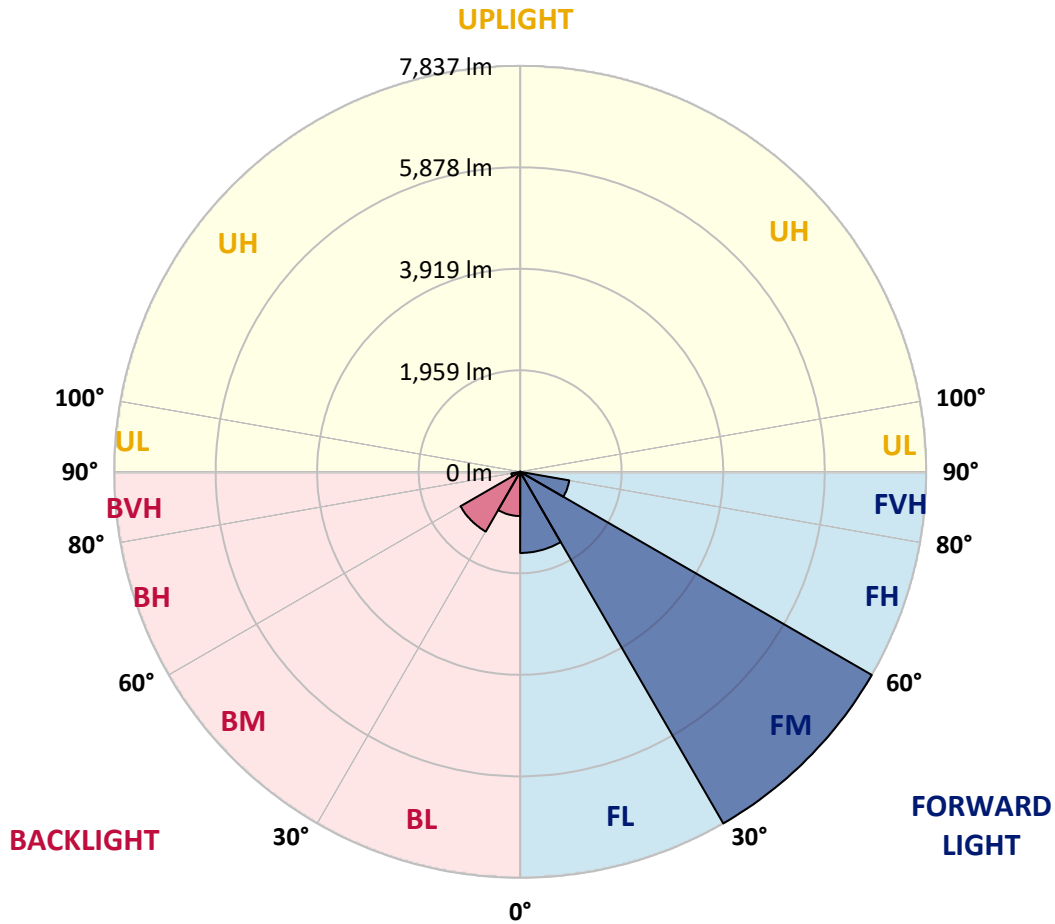
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.1	12.3			
FM (30°-60°)	7837.1	61.5			
FH (60°-80°)	962.2	7.6			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	853.8	6.7	B2/1000		
BM (30°-60°)	1331.1	10.4	B2/2500		
BH (60°-80°)	172.7	1.4	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5
2.5°	3079.6	3109.2	3113.7	3150.2	3147.9	3209.4	3227.6	3229.9	3270.9	3250.4	3302.8
5°	2993.0	2977.1	2970.2	3034.0	3052.2	3106.9	3152.5	3179.8	3264.1	3293.7	3348.4
7.5°	2915.6	2915.6	2920.1	2977.1	2970.2	3040.8	3088.7	3173.0	3296.0	3321.0	3387.1
10°	2840.4	2813.1	2847.2	2906.5	2956.6	2988.5	3088.7	3168.4	3311.9	3384.8	3475.9
12.5°	2801.7	2815.3	2819.9	2863.2	2917.8	3013.5	3068.2	3200.3	3425.8	3469.1	3567.0
15°	3045.4	3018.1	2952.0	2913.3	2958.8	3004.4	3141.1	3275.5	3485.0	3546.5	3655.9
17.5°	3327.9	3305.1	3250.4	3145.6	3043.1	3127.4	3234.5	3357.5	3548.8	3639.9	3801.6
20°	3696.9	3660.4	3605.7	3400.7	3311.9	3220.8	3334.7	3480.5	3653.6	3735.6	3901.9
22.5°	4136.5	4136.5	4013.5	3765.2	3580.7	3494.1	3542.0	3626.2	3769.7	3881.4	4045.4
25°	4594.3	4580.6	4469.0	4211.6	3899.6	3797.1	3851.7	3911.0	3949.7	4011.2	4120.5
27.5°	5118.2	5038.5	4897.2	4612.5	4336.9	4138.7	4198.0	4145.6	4097.7	4129.6	4286.8
30°	5473.5	5523.6	5343.7	5070.4	4810.7	4589.7	4601.1	4555.6	4336.9	4382.5	4475.9
32.5°	5842.5	5874.4	5774.2	5623.9	5364.2	5106.8	5013.4	4974.7	4810.7	4831.2	4740.1
35°	6150.0	6211.5	6122.7	6056.6	5981.5	5774.2	5516.8	5642.1	5377.9	5327.7	5090.9
37.5°	6432.5	6414.3	6519.0	6450.7	6434.8	6289.0	6006.5	6031.6	5853.9	5842.5	5569.2
40°	6685.3	6689.9	6833.4	6865.3	6801.5	6541.8	6131.8	6330.0	6473.5	6487.1	6136.4
42.5°	6894.9	6956.4	7079.4	7336.8	7241.1	6808.3	6261.6	6478.0	7011.0	7095.3	6673.9
45°	7077.1	7202.4	7355.0	7585.0	7530.4	7186.4	6585.1	6783.3	7585.0	7806.0	7179.6
47.5°	7088.5	7252.5	7418.8	7760.4	7828.8	7389.1	6919.9	7266.1	8040.6	8279.8	7548.6
50°	7042.9	7129.5	7462.0	7833.3	7988.2	7719.4	7389.1	7671.6	8482.5	8632.8	7735.4
52.5°	6503.1	6569.1	7236.5	7901.7	8275.2	8093.0	8011.0	8236.5	8933.5	9045.1	7910.8
55°	5421.1	5409.8	6327.7	7557.7	8407.3	8646.5	8596.4	8676.1	9455.1	9555.3	7954.0
57.5°	3708.2	3915.5	4708.2	6293.5	7598.7	8516.7	8569.0	8436.9	8846.9	8885.7	6933.6
60°	1999.9	2086.5	2724.2	4200.2	5785.6	6940.4	7077.1	6837.9	6806.0	6696.7	4949.6
62.5°	794.9	838.2	1200.4	2079.6	3152.5	4218.5	4512.3	4414.4	4204.8	3917.8	2562.5
65°	378.1	405.4	596.8	972.6	1398.6	1758.5	2052.3	2143.4	1580.8	1423.6	845.1
67.5°	257.4	277.9	435.1	555.8	498.8	521.6	678.8	630.9	371.3	316.6	234.6
70°	195.9	209.6	348.5	378.1	223.2	157.2	175.4	164.0	152.6	154.9	152.6
72.5°	138.9	150.3	255.1	223.2	97.9	72.9	93.4	111.6	111.6	111.6	109.3
75°	84.3	95.7	148.1	86.6	38.7	38.7	59.2	75.2	79.7	82.0	77.4
77.5°	43.3	54.7	50.1	25.1	25.1	29.6	43.3	52.4	56.9	56.9	54.7
80°	9.1	9.1	9.1	13.7	25.1	31.9	43.3	47.8	54.7	54.7	50.1
82.5°	0.0	2.3	6.8	13.7	22.8	29.6	41.0	47.8	54.7	56.9	52.4
85°	0.0	2.3	4.6	9.1	15.9	18.2	15.9	13.7	13.7	13.7	13.7
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5	3275.5
2.5°	3307.4	3314.2	3302.8	3300.5	3291.4	3318.7	3252.7	3236.7	3277.7	3239.0	3248.1
5°	3350.6	3366.6	3346.1	3311.9	3261.8	3184.3	3118.3	3031.7	2990.7	2961.1	2956.6
7.5°	3382.5	3393.9	3373.4	3264.1	3113.7	2917.8	2772.1	2665.0	2580.7	2555.7	2514.7
10°	3512.4	3514.6	3412.1	3170.7	2876.8	2619.5	2396.2	2232.2	2148.0	2095.6	2072.8
12.5°	3598.9	3594.4	3387.1	2986.2	2594.4	2252.7	1997.6	1799.5	1722.0	1697.0	1681.0
15°	3708.2	3683.2	3327.9	2797.1	2230.0	1861.0	1630.9	1494.2	1487.4	1471.5	1487.4
17.5°	3794.8	3724.2	3241.3	2453.2	1881.5	1533.0	1382.6	1391.7	1410.0	1425.9	1428.2
20°	3936.0	3790.2	3043.1	2152.5	1558.0	1314.3	1312.0	1353.0	1398.6	1416.8	1435.0
22.5°	4043.1	3817.6	2831.3	1831.3	1293.8	1225.5	1264.2	1325.7	1359.8	1378.1	1405.4
25°	4081.8	3742.4	2548.8	1510.2	1166.2	1184.5	1243.7	1284.7	1328.0	1348.5	1337.1
27.5°	4120.5	3703.7	2211.7	1243.7	1097.9	1157.1	1207.2	1248.2	1261.9	1289.2	1307.5
30°	4213.9	3569.3	1908.8	1075.1	1063.7	1138.9	1175.3	1189.0	1225.5	1241.4	1241.4
32.5°	4289.1	3516.9	1587.6	995.4	1059.2	1148.0	1152.6	1152.6	1157.1	1145.7	1141.2
35°	4444.0	3337.0	1300.6	947.6	1056.9	1150.3	1161.7	1123.0	1018.2	977.2	965.8
37.5°	4635.3	3220.8	1088.8	936.2	1072.8	1177.6	1195.8	1050.1	913.4	847.3	835.9
40°	4867.6	3138.8	949.8	931.6	1109.3	1241.4	1186.7	993.1	815.4	719.8	715.2
42.5°	5138.7	3063.6	856.4	929.3	1154.8	1307.5	1177.6	945.3	715.2	651.4	660.6
45°	5355.1	3022.6	792.7	913.4	1170.8	1346.2	1184.5	861.0	674.2	633.2	637.8
47.5°	5523.6	2936.1	740.3	886.1	1168.5	1359.8	1123.0	826.8	653.7	665.1	676.5
50°	5528.2	2819.9	674.2	826.8	1134.3	1334.8	1052.3	794.9	649.2	697.0	719.8
52.5°	5466.7	2655.9	603.6	742.6	1054.6	1248.2	988.6	781.3	628.7	624.1	651.4
55°	5248.0	2348.4	485.2	601.3	890.6	1029.6	931.6	756.2	567.2	514.8	519.3
57.5°	4241.2	1683.3	357.6	430.5	630.9	753.9	840.5	744.8	510.2	437.3	439.6
60°	2626.3	954.4	261.9	293.8	389.5	457.8	681.1	692.4	455.6	369.0	364.4
62.5°	1348.5	471.5	202.7	207.3	239.2	268.8	466.9	580.8	412.3	350.8	350.8
65°	451.0	232.3	177.7	159.4	159.4	166.3	282.4	403.2	348.5	293.8	293.8
67.5°	193.6	173.1	154.9	138.9	127.6	120.7	159.4	234.6	259.7	223.2	214.1
70°	150.3	145.8	134.4	116.2	100.2	91.1	93.4	120.7	148.1	143.5	138.9
72.5°	111.6	111.6	107.1	91.1	77.4	66.1	61.5	63.8	70.6	72.9	75.2
75°	77.4	79.7	79.7	70.6	56.9	47.8	41.0	34.2	27.3	22.8	20.5
77.5°	52.4	54.7	59.2	52.4	43.3	31.9	25.1	18.2	11.4	4.6	4.6
80°	45.6	52.4	56.9	52.4	45.6	34.2	25.1	13.7	6.8	0.0	0.0
82.5°	47.8	52.4	59.2	50.1	43.3	31.9	25.1	15.9	6.8	2.3	0.0
85°	11.4	11.4	13.7	15.9	20.5	22.8	18.2	11.4	6.8	2.3	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)