

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: P529155

Luminaire Tested: **GALN-SA4B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529155
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-SA4B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 12753 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

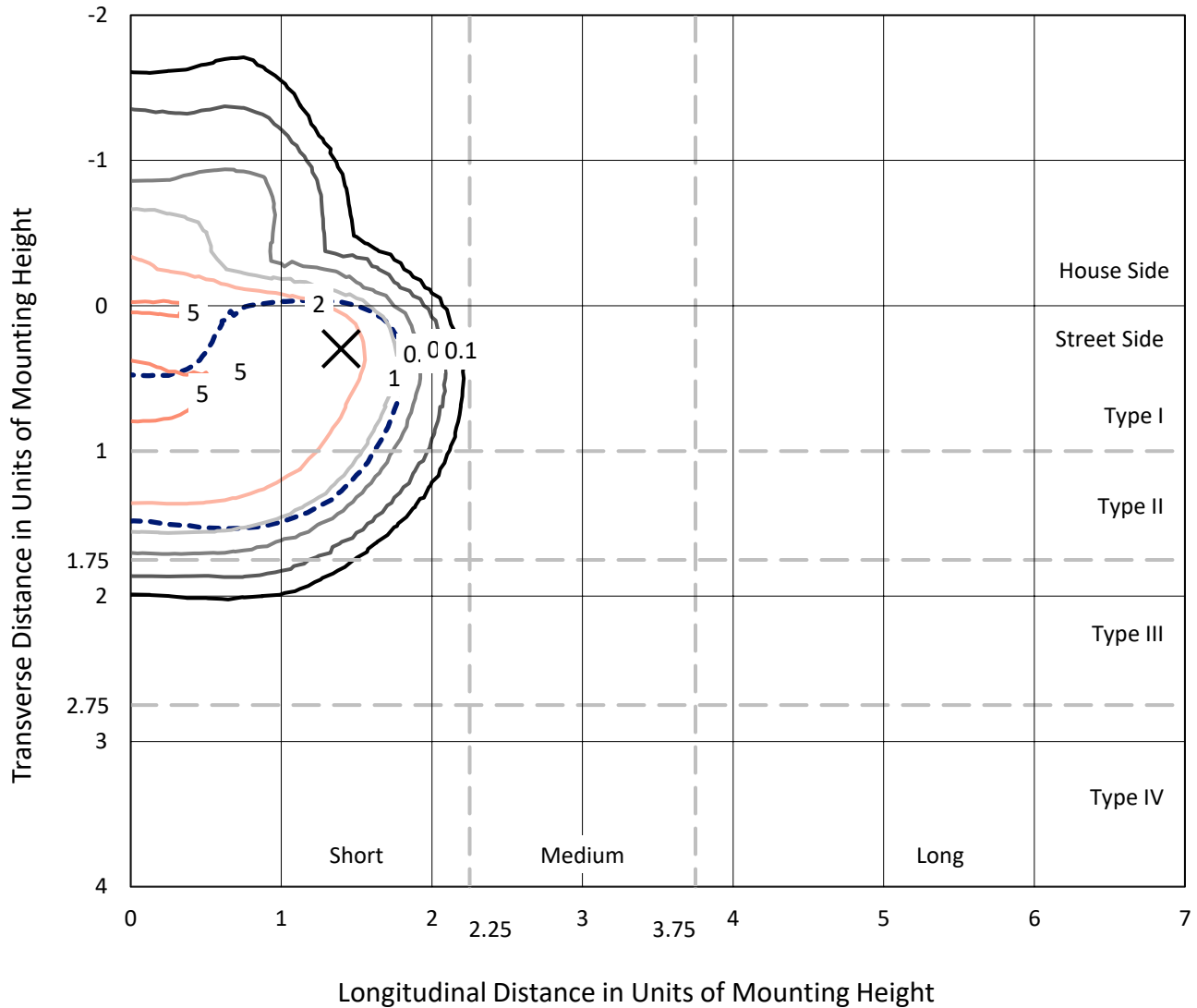
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

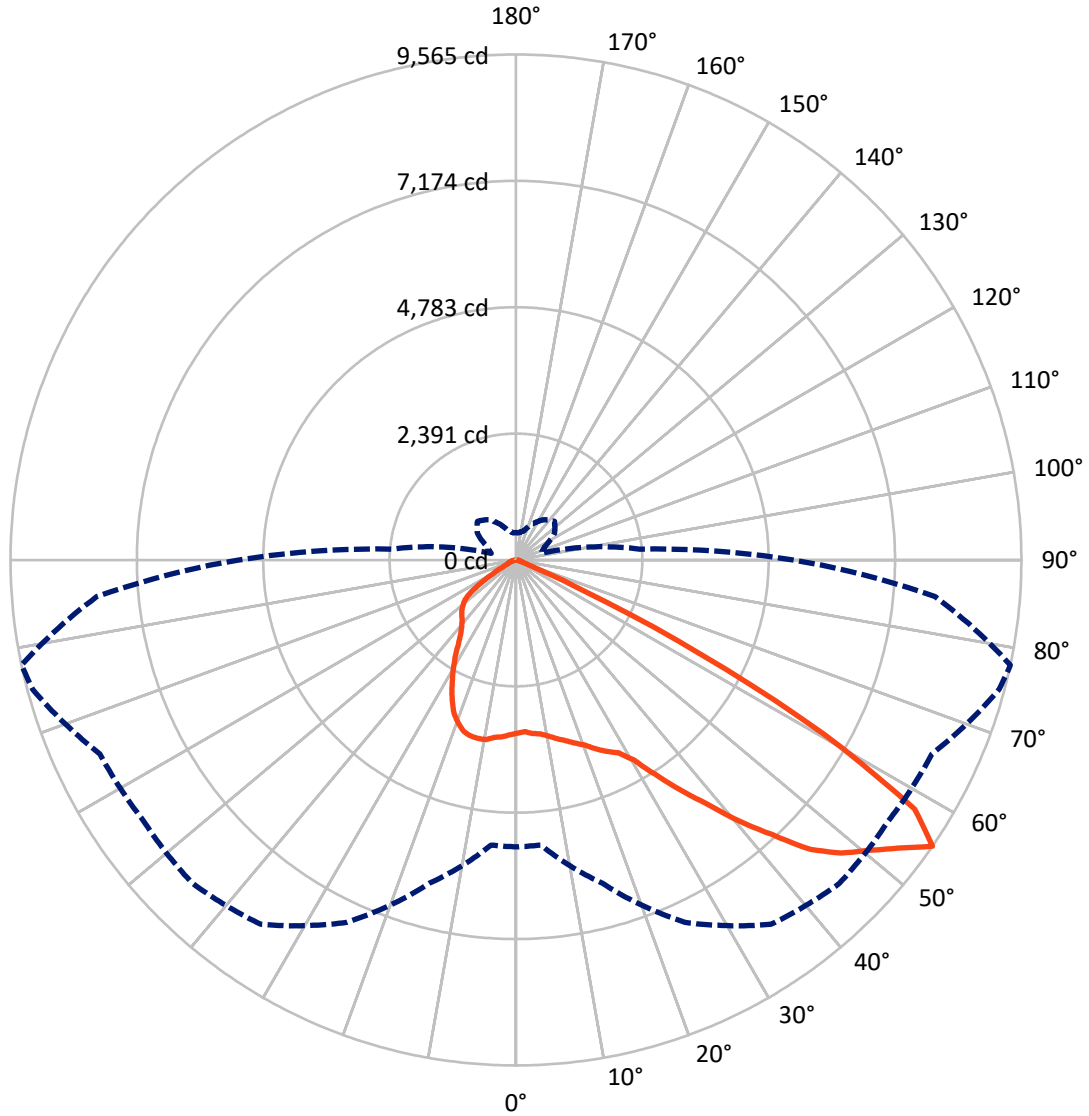
✕ Max cd
 - - - 1/2 Max cd



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	2368.7	0.0	2368.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10384.3	0.0	10384.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	12753.0	0.0	12753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	2.3
10°-20°	773.7	6.1
20°-30°	1356.2	10.6
30°-40°	2236.3	17.5
40°-50°	3254.1	25.5
50°-60°	3687.2	28.9
60°-70°	1054.2	8.3
70°-80°	81.9	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°	12753.0	100.0
0°-180°	12753.0	100.0

Coefficient of Utilization



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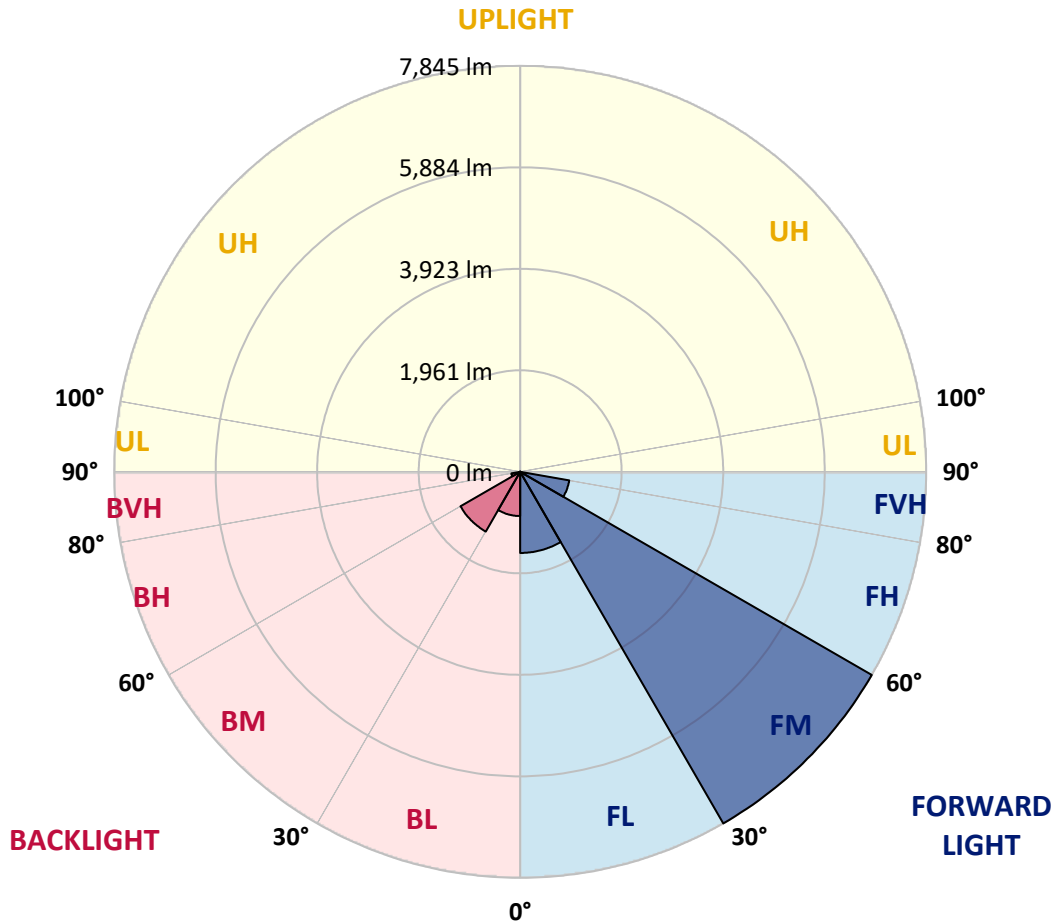
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.7	12.3			
FM (30°-60°)	7845.1	61.5			
FH (60°-80°)	963.2	7.6			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	854.6	6.7	B2/1000		
BM (30°-60°)	1332.4	10.4	B2/2500		
BH (60°-80°)	172.9	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°	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8
2.5°	3082.7	3112.4	3116.9	3153.4	3151.1	3212.7	3230.9	3233.2	3274.2	3253.7	3306.2
5°	2996.1	2980.1	2973.3	3037.1	3055.4	3110.1	3155.7	3183.0	3267.4	3297.0	3351.8
7.5°	2918.5	2918.5	2923.1	2980.1	2973.3	3044.0	3091.8	3176.2	3299.3	3324.4	3390.5
10°	2843.3	2815.9	2850.1	2909.4	2959.6	2991.5	3091.8	3171.6	3315.3	3388.2	3479.5
12.5°	2804.5	2818.2	2822.8	2866.1	2920.8	3016.6	3071.3	3203.6	3429.3	3472.6	3570.7
15°	3048.5	3021.2	2955.0	2916.3	2961.9	3007.5	3144.3	3278.8	3488.6	3550.1	3659.6
17.5°	3331.2	3308.4	3253.7	3148.8	3046.2	3130.6	3237.8	3360.9	3552.4	3643.6	3805.5
20°	3700.6	3664.1	3609.4	3404.2	3315.3	3224.1	3338.1	3484.0	3657.3	3739.4	3905.8
22.5°	4140.7	4140.7	4017.6	3769.0	3584.3	3497.7	3545.6	3629.9	3773.6	3885.3	4049.5
25°	4599.0	4585.3	4473.6	4215.9	3903.6	3800.9	3855.7	3915.0	3953.7	4015.3	4124.7
27.5°	5123.4	5043.6	4902.2	4617.2	4341.3	4143.0	4202.2	4149.8	4101.9	4133.8	4291.2
30°	5479.1	5529.3	5349.1	5075.5	4815.6	4594.4	4605.8	4560.2	4341.3	4386.9	4480.4
32.5°	5848.5	5880.4	5780.1	5629.6	5369.7	5112.0	5018.5	4979.8	4815.6	4836.1	4744.9
35°	6156.3	6217.9	6128.9	6062.8	5987.6	5780.1	5522.4	5647.8	5383.3	5333.2	5096.1
37.5°	6439.0	6420.8	6525.7	6457.3	6441.3	6295.4	6012.7	6037.7	5859.9	5848.5	5574.9
40°	6692.1	6696.7	6840.3	6872.3	6808.4	6548.5	6138.1	6336.4	6480.1	6493.8	6142.6
42.5°	6901.9	6963.5	7086.6	7344.2	7248.5	6815.3	6268.0	6484.6	7018.2	7102.6	6680.7
45°	7084.3	7209.7	7362.5	7592.8	7538.1	7193.8	6591.8	6790.2	7592.8	7814.0	7186.9
47.5°	7095.7	7259.9	7426.3	7768.3	7836.8	7396.7	6927.0	7273.6	8048.8	8288.2	7556.3
50°	7050.1	7136.8	7469.7	7841.3	7996.4	7727.3	7396.7	7679.4	8491.1	8641.6	7743.3
52.5°	6509.7	6575.8	7243.9	7909.7	8283.7	8101.2	8019.2	8244.9	8942.6	9054.3	7918.8
55°	5426.7	5415.3	6334.2	7565.4	8415.9	8655.3	8605.1	8685.0	9464.8	9565.1	7962.2
57.5°	3712.0	3919.5	4713.0	6300.0	7606.5	8525.3	8577.8	8445.5	8856.0	8894.7	6940.7
60°	2001.9	2088.6	2727.0	4204.5	5791.5	6947.5	7084.3	6844.9	6813.0	6703.5	4954.7
62.5°	795.8	839.1	1201.6	2081.7	3155.7	4222.8	4516.9	4418.9	4209.1	3921.8	2565.1
65°	378.5	405.9	597.4	973.6	1400.0	1760.2	2054.4	2145.6	1582.4	1425.1	845.9
67.5°	257.7	278.2	435.5	556.3	499.3	522.1	679.5	631.6	371.7	316.9	234.9
70°	196.1	209.8	348.9	378.5	223.5	157.3	175.6	164.2	152.8	155.0	152.8
72.5°	139.1	150.5	255.4	223.5	98.0	73.0	93.5	111.7	111.7	111.7	109.4
75°	84.4	95.8	148.2	86.6	38.8	38.8	59.3	75.2	79.8	82.1	77.5
77.5°	43.3	54.7	50.2	25.1	25.1	29.6	43.3	52.4	57.0	57.0	54.7
80°	9.1	9.1	9.1	13.7	25.1	31.9	43.3	47.9	54.7	54.7	50.2
82.5°	0.0	2.3	6.8	13.7	22.8	29.6	41.0	47.9	54.7	57.0	52.4
85°	0.0	2.3	4.6	9.1	16.0	18.2	16.0	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°	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8	3278.8
2.5°	3310.7	3317.6	3306.2	3303.9	3294.8	3322.1	3256.0	3240.0	3281.1	3242.3	3251.4
5°	3354.0	3370.0	3349.5	3315.3	3265.1	3187.6	3121.5	3034.8	2993.8	2964.1	2959.6
7.5°	3386.0	3397.4	3376.8	3267.4	3116.9	2920.8	2774.9	2667.7	2583.4	2558.3	2517.2
10°	3515.9	3518.2	3415.6	3173.9	2879.8	2622.1	2398.7	2234.5	2150.1	2097.7	2074.9
12.5°	3602.6	3598.0	3390.5	2989.2	2597.0	2255.0	1999.7	1801.3	1723.8	1698.7	1682.7
15°	3712.0	3686.9	3331.2	2800.0	2232.2	1862.9	1632.6	1495.8	1488.9	1473.0	1488.9
17.5°	3798.7	3728.0	3244.6	2455.7	1883.4	1534.5	1384.0	1393.1	1411.4	1427.4	1429.6
20°	3940.0	3794.1	3046.2	2154.7	1559.6	1315.6	1313.3	1354.4	1400.0	1418.2	1436.5
22.5°	4047.2	3821.5	2834.2	1833.2	1295.1	1226.7	1265.5	1327.0	1361.2	1379.5	1406.8
25°	4086.0	3746.2	2551.4	1511.7	1167.4	1185.7	1244.9	1286.0	1329.3	1349.8	1338.4
27.5°	4124.7	3707.5	2214.0	1244.9	1099.0	1158.3	1208.5	1249.5	1263.2	1290.5	1308.8
30°	4218.2	3572.9	1910.7	1076.2	1064.8	1140.1	1176.5	1190.2	1226.7	1242.7	1242.7
32.5°	4293.5	3520.5	1589.2	996.4	1060.3	1149.2	1153.7	1153.7	1158.3	1146.9	1142.3
35°	4448.5	3340.4	1301.9	948.5	1058.0	1151.5	1162.9	1124.1	1019.2	978.2	966.8
37.5°	4640.0	3224.1	1089.9	937.1	1073.9	1178.8	1197.1	1051.1	914.3	848.2	836.8
40°	4872.6	3142.0	950.8	932.6	1110.4	1242.7	1187.9	994.1	816.3	720.5	716.0
42.5°	5143.9	3066.8	857.3	930.3	1156.0	1308.8	1178.8	946.2	716.0	652.1	661.2
45°	5360.5	3025.7	793.5	914.3	1172.0	1347.5	1185.7	861.9	674.9	633.9	638.4
47.5°	5529.3	2939.1	741.0	887.0	1169.7	1361.2	1124.1	827.7	654.4	665.8	677.2
50°	5533.8	2822.8	674.9	827.7	1135.5	1336.1	1053.4	795.8	649.8	697.7	720.5
52.5°	5472.3	2658.6	604.2	743.3	1055.7	1249.5	989.6	782.1	629.3	624.8	652.1
55°	5253.4	2350.8	485.7	602.0	891.5	1030.6	932.6	757.0	567.7	515.3	519.9
57.5°	4245.6	1685.0	358.0	430.9	631.6	754.7	841.4	745.6	510.7	437.8	440.1
60°	2629.0	955.4	262.2	294.1	389.9	458.3	681.8	693.2	456.0	369.4	364.8
62.5°	1349.8	472.0	202.9	207.5	239.4	269.1	467.4	581.4	412.7	351.1	351.1
65°	451.5	232.6	177.8	159.6	159.6	166.4	282.7	403.6	348.9	294.1	294.1
67.5°	193.8	173.3	155.0	139.1	127.7	120.8	159.6	234.9	259.9	223.5	214.3
70°	150.5	145.9	134.5	116.3	100.3	91.2	93.5	120.8	148.2	143.6	139.1
72.5°	111.7	111.7	107.2	91.2	77.5	66.1	61.6	63.8	70.7	73.0	75.2
75°	77.5	79.8	79.8	70.7	57.0	47.9	41.0	34.2	27.4	22.8	20.5
77.5°	52.4	54.7	59.3	52.4	43.3	31.9	25.1	18.2	11.4	4.6	4.6
80°	45.6	52.4	57.0	52.4	45.6	34.2	25.1	13.7	6.8	0.0	0.0
82.5°	47.9	52.4	59.3	50.2	43.3	31.9	25.1	16.0	6.8	2.3	0.0
85°	11.4	11.4	13.7	16.0	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)