

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: P528479

Luminaire Tested: **GALN-SA3C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528479
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-SA3C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 12764 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

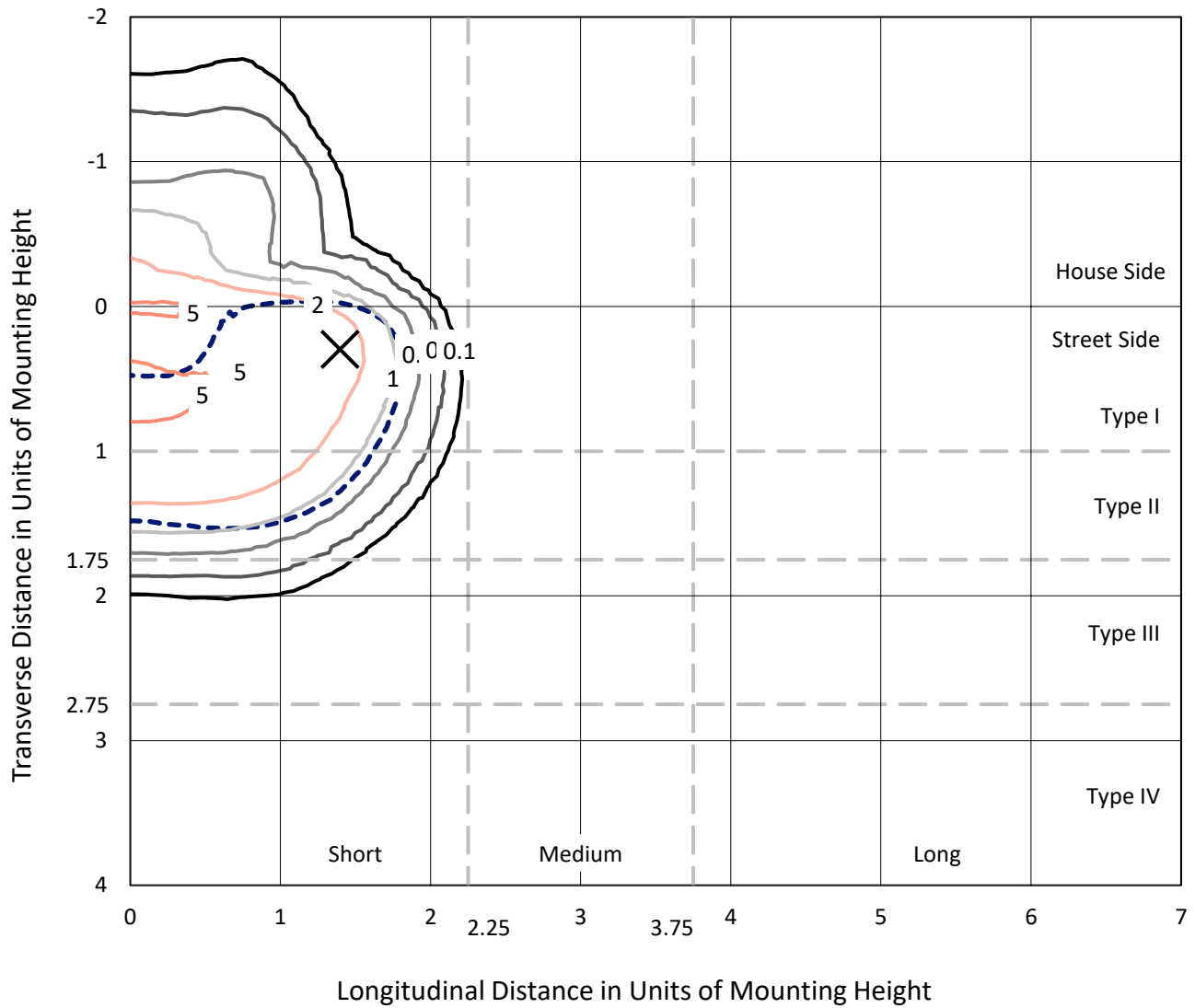
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

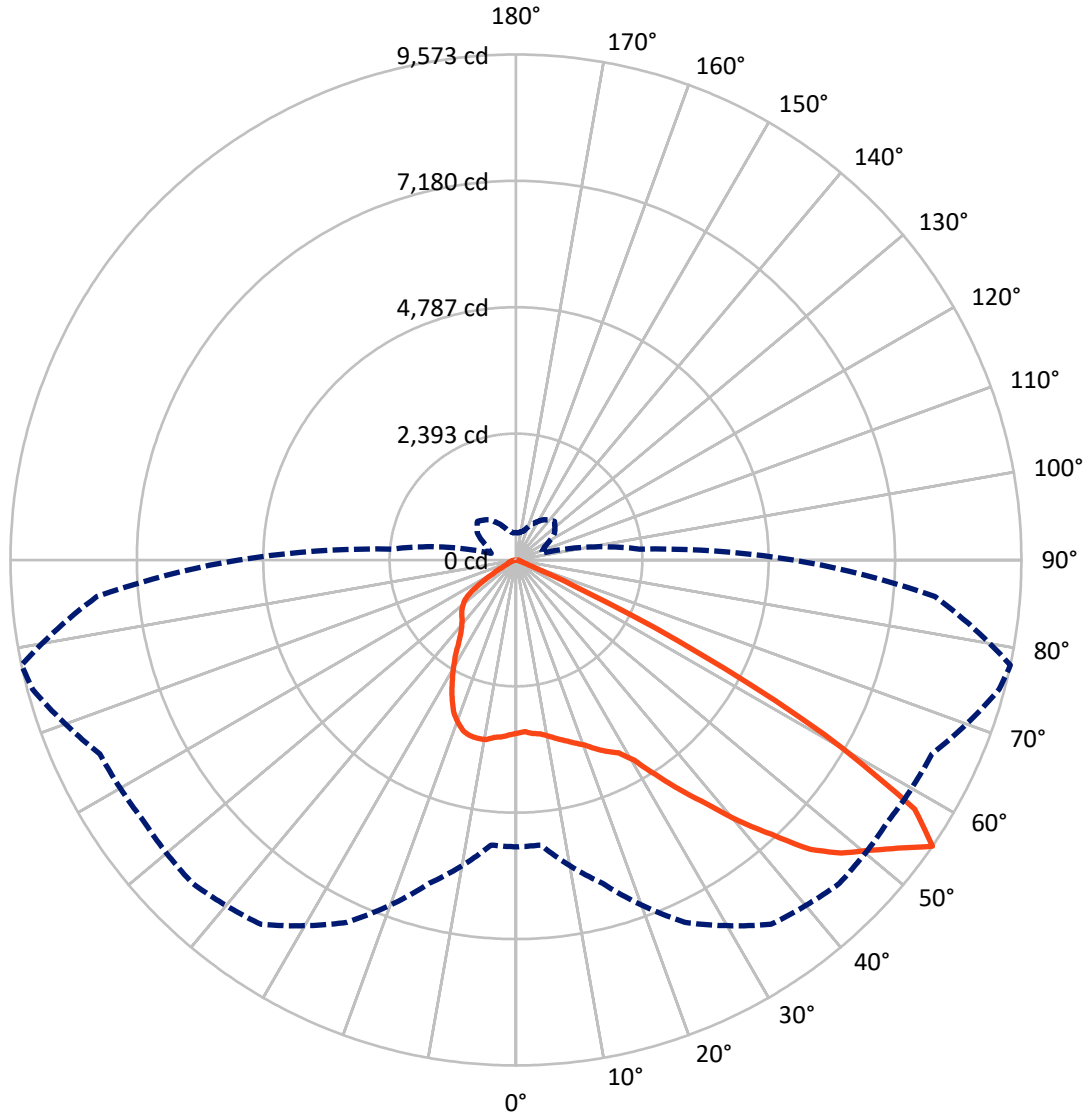
✕ Max cd
 - - - 1/2 Max cd



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	2370.8	0.0	2370.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10393.2	0.0	10393.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	12764.0	0.0	12764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	2.3
10°-20°	774.4	6.1
20°-30°	1357.4	10.6
30°-40°	2238.2	17.5
40°-50°	3256.9	25.5
50°-60°	3690.4	28.9
60°-70°	1055.1	8.3
70°-80°	81.9	0.6
80°-90°	17.1	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°	12764.0	100.0
0°-180°	12764.0	100.0

Coefficient of Utilization



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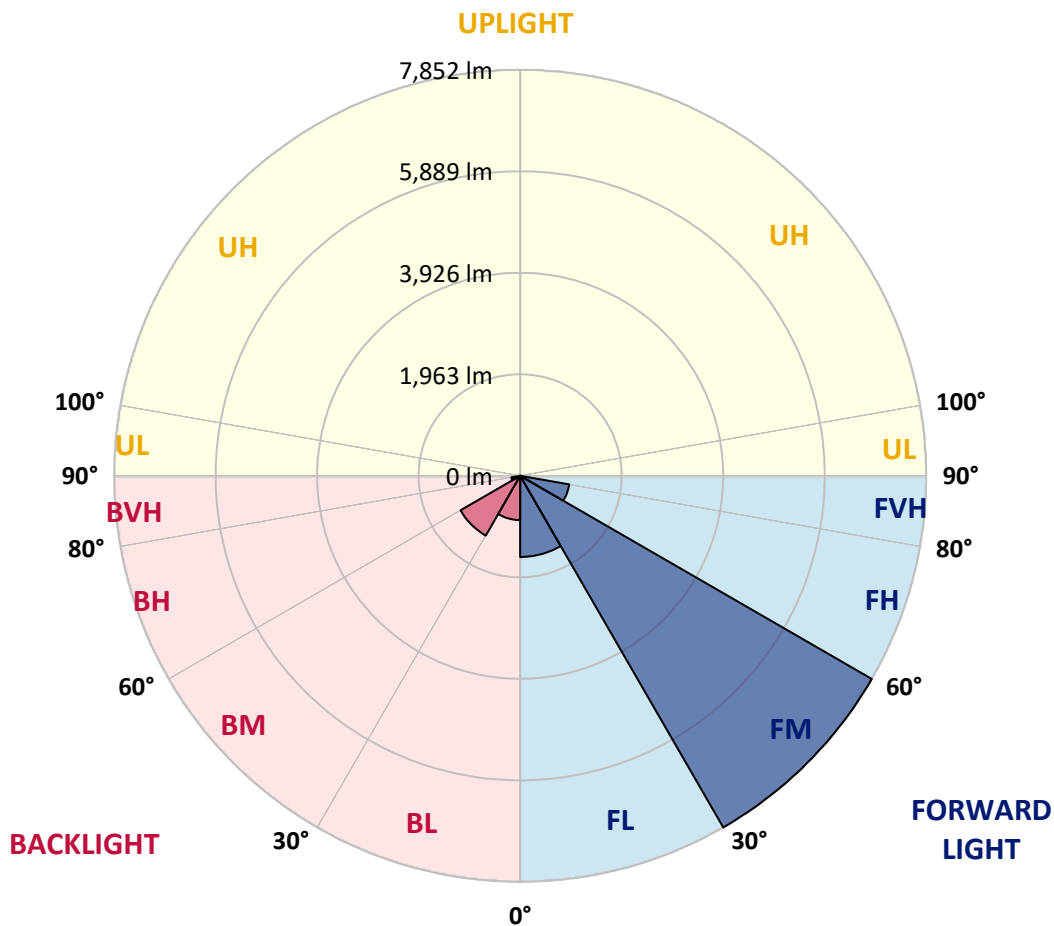
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.1	12.3			
FM (30°-60°)	7851.8	61.5			
FH (60°-80°)	964.0	7.6			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	855.4	6.7	B2/1000		
BM (30°-60°)	1333.6	10.4	B2/2500		
BH (60°-80°)	173.1	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°	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6
2.5°	3085.4	3115.0	3119.6	3156.1	3153.8	3215.5	3233.7	3236.0	3277.1	3256.5	3309.0
5°	2998.7	2982.7	2975.8	3039.7	3058.0	3112.8	3158.4	3185.8	3270.2	3299.9	3354.7
7.5°	2921.1	2921.1	2925.6	2982.7	2975.8	3046.6	3094.5	3178.9	3302.2	3327.3	3393.5
10°	2845.8	2818.4	2852.6	2911.9	2962.1	2994.1	3094.5	3174.4	3318.1	3391.2	3482.5
12.5°	2807.0	2820.7	2825.2	2868.6	2923.3	3019.2	3074.0	3206.3	3432.2	3475.6	3573.7
15°	3051.1	3023.8	2957.6	2918.8	2964.4	3010.1	3147.0	3281.6	3491.6	3553.2	3662.7
17.5°	3334.1	3311.3	3256.5	3151.6	3048.9	3133.3	3240.6	3363.8	3555.5	3646.8	3808.8
20°	3703.8	3667.3	3612.5	3407.1	3318.1	3226.9	3341.0	3487.0	3660.5	3742.6	3909.2
22.5°	4144.3	4144.3	4021.0	3772.3	3587.4	3500.7	3548.6	3633.1	3776.8	3888.7	4053.0
25°	4603.0	4589.3	4477.4	4219.6	3906.9	3804.2	3859.0	3918.3	3957.1	4018.7	4128.3
27.5°	5127.8	5048.0	4906.5	4621.2	4345.1	4146.5	4205.9	4153.4	4105.5	4137.4	4294.9
30°	5483.8	5534.0	5353.8	5079.9	4819.8	4598.4	4609.8	4564.2	4345.1	4390.7	4484.3
32.5°	5853.5	5885.5	5785.1	5634.5	5374.3	5116.4	5022.9	4984.1	4819.8	4840.3	4749.0
35°	6161.6	6223.2	6134.2	6068.1	5992.7	5785.1	5527.2	5652.7	5388.0	5337.8	5100.5
37.5°	6444.6	6426.3	6531.3	6462.9	6446.9	6300.8	6017.8	6042.9	5864.9	5853.5	5579.7
40°	6697.9	6702.5	6846.2	6878.2	6814.3	6554.1	6143.4	6341.9	6485.7	6499.4	6147.9
42.5°	6907.9	6969.5	7092.7	7350.6	7254.7	6821.1	6273.4	6490.2	7024.2	7108.7	6686.5
45°	7090.4	7215.9	7368.8	7599.3	7544.6	7200.0	6597.5	6796.0	7599.3	7820.7	7193.1
47.5°	7101.8	7266.1	7432.7	7775.0	7843.5	7403.1	6933.0	7279.8	8055.7	8295.4	7562.8
50°	7056.2	7142.9	7476.1	7848.1	8003.3	7734.0	7403.1	7686.0	8498.5	8649.1	7749.9
52.5°	6515.3	6581.5	7250.2	7916.5	8290.8	8108.2	8026.1	8252.0	8950.3	9062.1	7925.7
55°	5431.4	5419.9	6339.6	7571.9	8423.2	8662.8	8612.6	8692.4	9472.9	9573.3	7969.0
57.5°	3715.2	3922.9	4717.1	6305.4	7613.0	8532.7	8585.2	8452.8	8863.6	8902.4	6946.7
60°	2003.7	2090.4	2729.4	4208.2	5796.5	6953.5	7090.4	6850.8	6818.9	6709.3	4959.0
62.5°	796.4	839.8	1202.7	2083.5	3158.4	4226.4	4520.8	4422.7	4212.7	3925.2	2567.3
65°	378.8	406.2	597.9	974.4	1401.2	1761.8	2056.2	2147.4	1583.8	1426.3	846.7
67.5°	257.9	278.4	435.9	556.8	499.8	522.6	680.1	632.1	372.0	317.2	235.1
70°	196.3	210.0	349.2	378.8	223.6	157.5	175.7	164.3	152.9	155.2	152.9
72.5°	139.2	150.6	255.6	223.6	98.1	73.0	93.6	111.8	111.8	111.8	109.5
75°	84.4	95.8	148.3	86.7	38.8	38.8	59.3	75.3	79.9	82.2	77.6
77.5°	43.4	54.8	50.2	25.1	25.1	29.7	43.4	52.5	57.1	57.1	54.8
80°	9.1	9.1	9.1	13.7	25.1	31.9	43.4	47.9	54.8	54.8	50.2
82.5°	0.0	2.3	6.8	13.7	22.8	29.7	41.1	47.9	54.8	57.1	52.5
85°	0.0	2.3	4.6	9.1	16.0	18.3	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°	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6	3281.6
2.5°	3313.6	3320.4	3309.0	3306.7	3297.6	3325.0	3258.8	3242.8	3283.9	3245.1	3254.2
5°	3356.9	3372.9	3352.4	3318.1	3267.9	3190.3	3124.2	3037.4	2996.4	2966.7	2962.1
7.5°	3388.9	3400.3	3379.8	3270.2	3119.6	2923.3	2777.3	2670.0	2585.6	2560.5	2519.4
10°	3519.0	3521.3	3418.6	3176.7	2882.3	2624.4	2400.7	2236.4	2152.0	2099.5	2076.7
12.5°	3605.7	3601.1	3393.5	2991.8	2599.3	2257.0	2001.4	1802.8	1725.3	1700.2	1684.2
15°	3715.2	3690.1	3334.1	2802.4	2234.2	1864.5	1634.0	1497.0	1490.2	1474.2	1490.2
17.5°	3801.9	3731.2	3247.4	2457.8	1885.0	1535.8	1385.2	1394.4	1412.6	1428.6	1430.9
20°	3943.4	3797.4	3048.9	2156.6	1560.9	1316.8	1314.5	1355.6	1401.2	1419.5	1437.7
22.5°	4050.7	3824.8	2836.6	1834.8	1296.2	1227.8	1266.6	1328.2	1362.4	1380.7	1408.0
25°	4089.5	3749.5	2553.6	1513.0	1168.4	1186.7	1246.0	1287.1	1330.5	1351.0	1339.6
27.5°	4128.3	3710.7	2215.9	1246.0	1100.0	1159.3	1209.5	1250.6	1264.3	1291.7	1309.9
30°	4221.8	3576.0	1912.4	1077.1	1065.7	1141.0	1177.6	1191.2	1227.8	1243.7	1243.7
32.5°	4297.2	3523.5	1590.6	997.3	1061.2	1150.2	1154.7	1154.7	1159.3	1147.9	1143.3
35°	4452.3	3343.2	1303.1	949.3	1058.9	1152.5	1163.9	1125.1	1020.1	979.0	967.6
37.5°	4644.0	3226.9	1090.8	937.9	1074.9	1179.8	1198.1	1052.0	915.1	848.9	837.5
40°	4876.8	3144.7	951.6	933.4	1111.4	1243.7	1189.0	995.0	817.0	721.1	716.6
42.5°	5148.4	3069.4	858.1	931.1	1157.0	1309.9	1179.8	947.1	716.6	652.7	661.8
45°	5365.2	3028.3	794.2	915.1	1173.0	1348.7	1186.7	862.6	675.5	634.4	639.0
47.5°	5534.0	2941.6	741.7	887.7	1170.7	1362.4	1125.1	828.4	655.0	666.4	677.8
50°	5538.6	2825.2	675.5	828.4	1136.5	1337.3	1054.3	796.4	650.4	698.3	721.1
52.5°	5477.0	2660.9	604.8	744.0	1056.6	1250.6	990.4	782.8	629.9	625.3	652.7
55°	5257.9	2352.8	486.1	602.5	892.3	1031.5	933.4	757.7	568.2	515.8	520.3
57.5°	4249.2	1686.5	358.3	431.3	632.1	755.4	842.1	746.2	511.2	438.2	440.4
60°	2631.2	956.2	262.4	294.4	390.2	458.7	682.3	693.8	456.4	369.7	365.1
62.5°	1351.0	472.4	203.1	207.7	239.6	269.3	467.8	581.9	413.1	351.4	351.4
65°	451.9	232.8	178.0	159.7	159.7	166.6	283.0	403.9	349.2	294.4	294.4
67.5°	194.0	173.4	155.2	139.2	127.8	121.0	159.7	235.1	260.2	223.6	214.5
70°	150.6	146.1	134.6	116.4	100.4	91.3	93.6	121.0	148.3	143.8	139.2
72.5°	111.8	111.8	107.3	91.3	77.6	66.2	61.6	63.9	70.7	73.0	75.3
75°	77.6	79.9	79.9	70.7	57.1	47.9	41.1	34.2	27.4	22.8	20.5
77.5°	52.5	54.8	59.3	52.5	43.4	31.9	25.1	18.3	11.4	4.6	4.6
80°	45.6	52.5	57.1	52.5	45.6	34.2	25.1	13.7	6.8	0.0	0.0
82.5°	47.9	52.5	59.3	50.2	43.4	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	18.3	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)