

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: P529883

Luminaire Tested: **GALN-SA5A-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529883
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-SA5A-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 13928 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

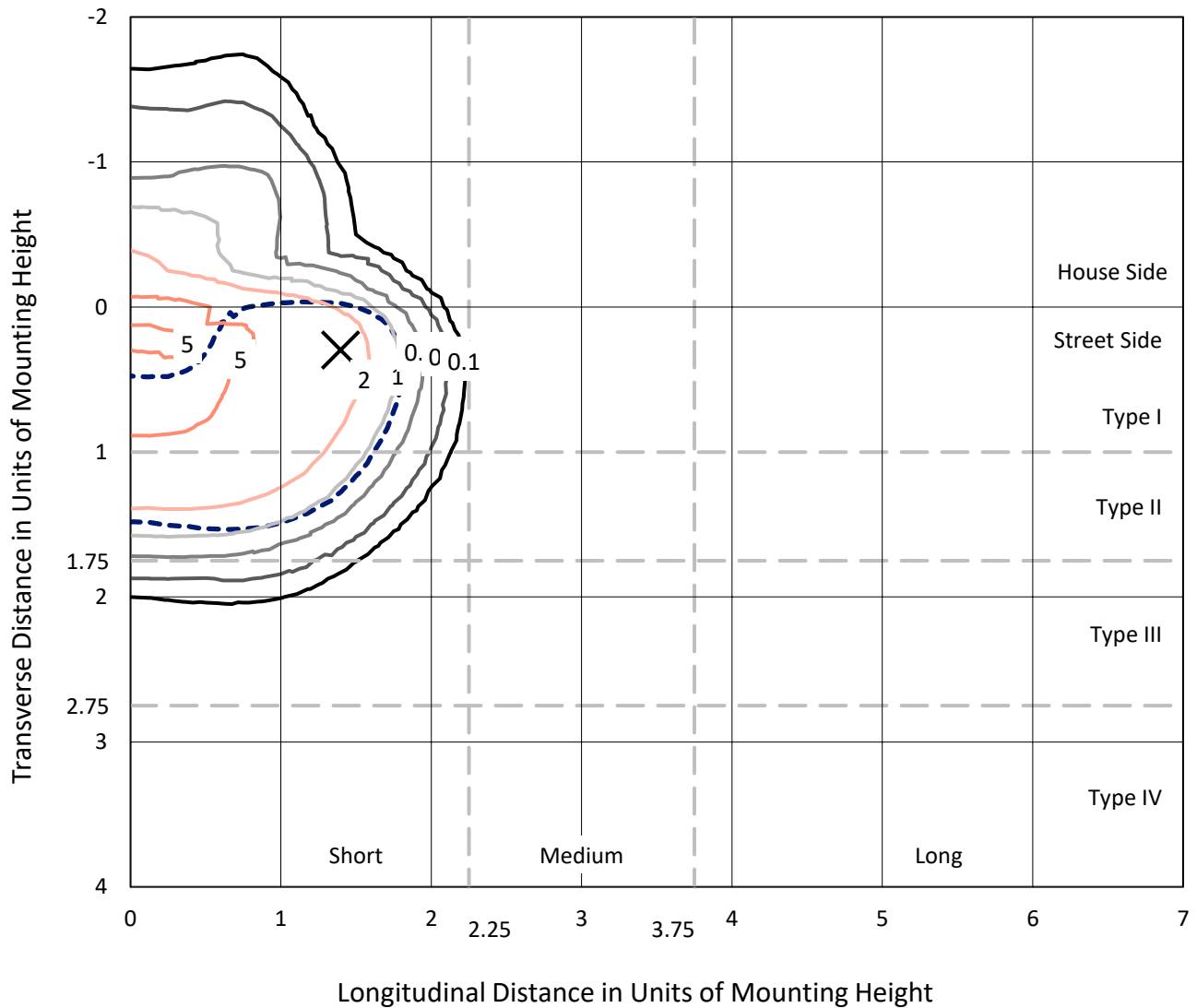
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

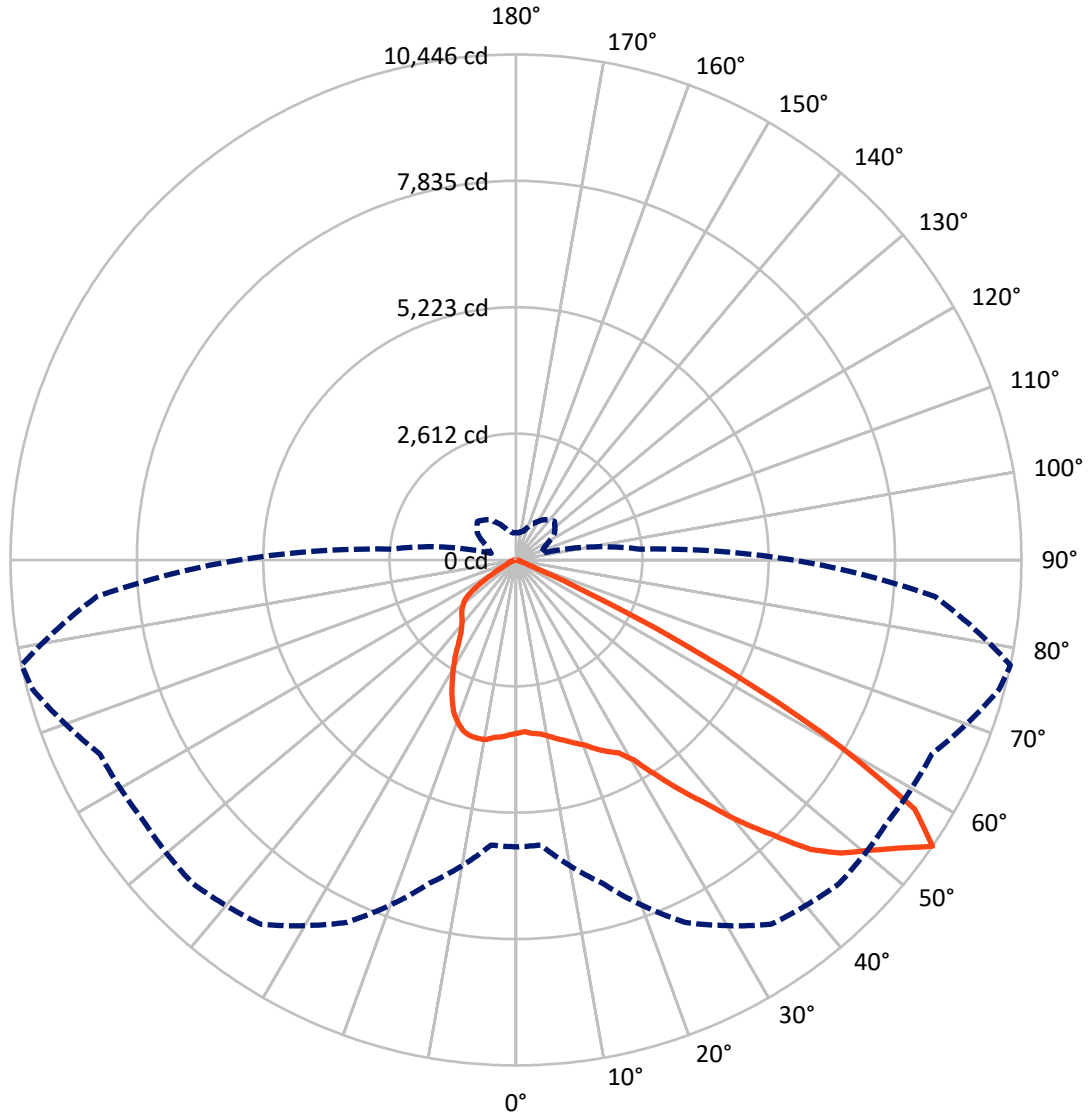
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2587.0	0.0	2587.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11341.0	0.0	11341.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	13928.0	0.0	13928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	2.3
10°-20°	845.0	6.1
20°-30°	1481.2	10.6
30°-40°	2442.3	17.5
40°-50°	3553.9	25.5
50°-60°	4026.9	28.9
60°-70°	1151.4	8.3
70°-80°	89.4	0.6
80°-90°	18.6	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°	13928.0	100.0
0°-180°	13928.0	100.0

Coefficient of Utilization



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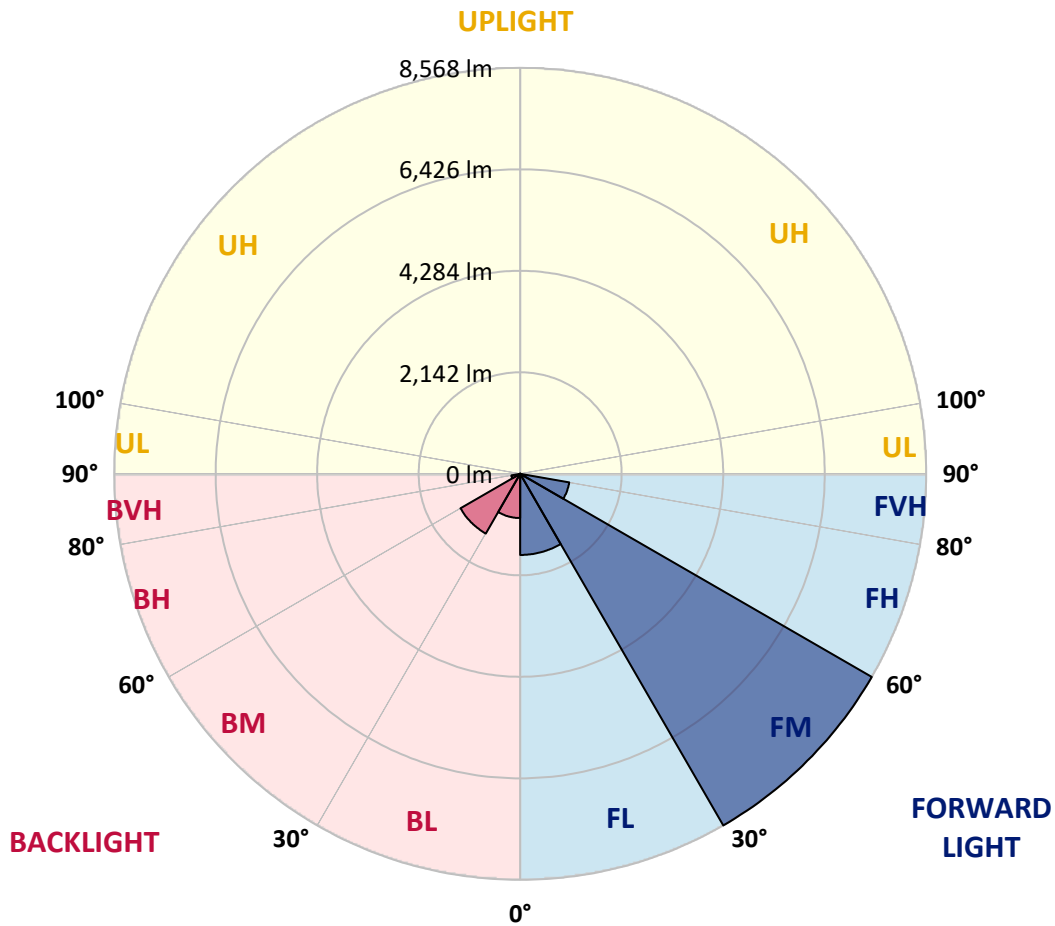
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.2	12.3			
FM (30°-60°)	8567.9	61.5			
FH (60°-80°)	1051.9	7.6			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	933.4	6.7	B2/1000		
BM (30°-60°)	1455.2	10.4	B2/2500		
BH (60°-80°)	188.8	1.4	B1/500		G1/500
BVH (80°-90°)	9.5	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°	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9
2.5°	3366.7	3399.1	3404.1	3443.9	3441.4	3508.7	3528.6	3531.1	3575.9	3553.5	3610.8
5°	3272.1	3254.7	3247.2	3316.9	3336.9	3396.6	3446.4	3476.3	3568.4	3600.8	3660.6
7.5°	3187.4	3187.4	3192.4	3254.7	3247.2	3324.4	3376.7	3468.8	3603.3	3630.7	3702.9
10°	3105.3	3075.4	3112.7	3177.5	3232.3	3267.1	3376.7	3463.9	3620.7	3700.4	3800.0
12.5°	3062.9	3077.9	3082.9	3130.2	3189.9	3294.5	3354.3	3498.7	3745.2	3792.6	3899.6
15°	3329.4	3299.5	3227.3	3185.0	3234.8	3284.6	3434.0	3580.9	3810.0	3877.2	3996.8
17.5°	3638.2	3613.3	3553.5	3439.0	3326.9	3419.0	3536.1	3670.5	3879.7	3979.3	4156.1
20°	4041.6	4001.7	3942.0	3717.9	3620.7	3521.1	3645.6	3805.0	3994.3	4083.9	4265.7
22.5°	4522.2	4522.2	4387.7	4116.3	3914.6	3820.0	3872.2	3964.4	4121.3	4243.3	4422.6
25°	5022.7	5007.8	4885.8	4604.4	4263.2	4151.2	4210.9	4275.7	4318.0	4385.2	4504.8
27.5°	5595.5	5508.3	5353.9	5042.6	4741.3	4524.7	4589.4	4532.2	4479.9	4514.7	4686.5
30°	5983.9	6038.7	5842.0	5543.2	5259.3	5017.7	5030.2	4980.4	4741.3	4791.1	4893.2
32.5°	6387.3	6422.2	6312.6	6148.3	5864.4	5583.0	5480.9	5438.6	5259.3	5281.7	5182.1
35°	6723.5	6790.8	6693.6	6621.4	6539.2	6312.6	6031.2	6168.2	5879.3	5824.6	5565.6
37.5°	7032.3	7012.4	7126.9	7052.2	7034.8	6875.4	6566.6	6594.0	6399.8	6387.3	6088.5
40°	7308.7	7313.7	7470.6	7505.4	7435.7	7151.8	6703.6	6920.2	7077.1	7092.1	6708.6
42.5°	7537.8	7605.0	7739.5	8020.9	7916.3	7443.2	6845.5	7082.1	7664.8	7757.0	7296.3
45°	7737.0	7874.0	8040.8	8292.3	8232.6	7856.6	7199.1	7415.8	8292.3	8533.9	7849.1
47.5°	7749.5	7928.8	8110.6	8484.1	8558.8	8078.2	7565.2	7943.7	8790.4	9051.9	8252.5
50°	7699.7	7794.3	8157.9	8563.8	8733.1	8439.3	8078.2	8387.0	9273.5	9437.8	8456.7
52.5°	7109.5	7181.7	7911.3	8638.5	9046.9	8847.7	8758.0	9004.5	9766.5	9888.6	8648.4
55°	5926.7	5914.2	6917.8	8262.5	9191.3	9452.8	9398.0	9485.1	10336.8	10446.4	8695.8
57.5°	4054.0	4280.6	5147.2	6880.4	8307.3	9310.8	9368.1	9223.7	9671.9	9714.2	7580.1
60°	2186.4	2281.0	2978.3	4591.9	6325.1	7587.6	7737.0	7475.6	7440.7	7321.2	5411.2
62.5°	869.1	916.4	1312.3	2273.5	3446.4	4611.8	4933.1	4826.0	4596.9	4283.1	2801.5
65°	413.4	443.3	652.4	1063.3	1529.0	1922.4	2243.7	2343.3	1728.2	1556.4	923.9
67.5°	281.4	303.8	475.6	607.6	545.4	570.3	742.1	689.8	405.9	346.1	256.5
70°	214.2	229.1	381.0	413.4	244.0	171.8	191.7	179.3	166.8	169.3	166.8
72.5°	151.9	164.4	278.9	244.0	107.1	79.7	102.1	122.0	122.0	122.0	119.5
75°	92.1	104.6	161.9	94.6	42.3	42.3	64.7	82.2	87.2	89.6	84.7
77.5°	47.3	59.8	54.8	27.4	27.4	32.4	47.3	57.3	62.3	62.3	59.8
80°	10.0	10.0	10.0	14.9	27.4	34.9	47.3	52.3	59.8	59.8	54.8
82.5°	0.0	2.5	7.5	14.9	24.9	32.4	44.8	52.3	59.8	62.3	57.3
85°	0.0	2.5	5.0	10.0	17.4	19.9	17.4	14.9	14.9	14.9	14.9
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9
2.5°	3615.8	3623.2	3610.8	3608.3	3598.3	3628.2	3556.0	3538.6	3583.4	3541.1	3551.0
5°	3663.1	3680.5	3658.1	3620.7	3566.0	3481.3	3409.1	3314.4	3269.6	3237.3	3232.3
7.5°	3697.9	3710.4	3688.0	3568.4	3404.1	3189.9	3030.6	2913.5	2821.4	2794.0	2749.2
10°	3839.9	3842.4	3730.3	3466.3	3145.1	2863.7	2619.7	2440.4	2348.3	2291.0	2266.1
12.5°	3934.5	3929.5	3702.9	3264.6	2836.3	2462.8	2183.9	1967.3	1882.6	1855.2	1837.8
15°	4054.0	4026.6	3638.2	3058.0	2437.9	2034.5	1783.0	1633.6	1626.1	1608.7	1626.1
17.5°	4148.7	4071.5	3543.5	2681.9	2056.9	1675.9	1511.5	1521.5	1541.4	1558.9	1561.4
20°	4303.1	4143.7	3326.9	2353.2	1703.3	1436.8	1434.4	1479.2	1529.0	1548.9	1568.8
22.5°	4420.1	4173.6	3095.3	2002.1	1414.4	1339.7	1382.1	1449.3	1486.6	1506.6	1536.4
25°	4462.4	4091.4	2786.5	1651.0	1275.0	1294.9	1359.6	1404.5	1451.8	1474.2	1461.7
27.5°	4504.8	4049.1	2418.0	1359.6	1200.3	1265.0	1319.8	1364.6	1379.6	1409.4	1429.4
30°	4606.9	3902.1	2086.8	1175.4	1162.9	1245.1	1284.9	1299.9	1339.7	1357.2	1357.2
32.5°	4689.0	3844.9	1735.7	1088.2	1157.9	1255.1	1260.0	1260.0	1265.0	1252.6	1247.6
35°	4858.4	3648.1	1421.9	1035.9	1155.4	1257.5	1270.0	1227.7	1113.1	1068.3	1055.8
37.5°	5067.5	3521.1	1190.3	1023.5	1172.9	1287.4	1307.4	1148.0	998.6	926.4	913.9
40°	5321.5	3431.5	1038.4	1018.5	1212.7	1357.2	1297.4	1085.7	891.5	786.9	781.9
42.5°	5617.9	3349.3	936.3	1016.0	1262.5	1429.4	1287.4	1033.4	781.9	712.2	722.2
45°	5854.4	3304.5	866.6	998.6	1280.0	1471.7	1294.9	941.3	737.1	692.3	697.3
47.5°	6038.7	3209.9	809.3	968.7	1277.5	1486.6	1227.7	903.9	714.7	727.1	739.6
50°	6043.7	3082.9	737.1	903.9	1240.1	1459.3	1150.5	869.1	709.7	762.0	786.9
52.5°	5976.5	2903.6	659.9	811.8	1153.0	1364.6	1080.7	854.1	687.3	682.3	712.2
55°	5737.4	2567.4	530.4	657.4	973.7	1125.6	1018.5	826.7	620.1	562.8	567.8
57.5°	4636.7	1840.3	391.0	470.6	689.8	824.3	918.9	814.3	557.8	478.1	480.6
60°	2871.2	1043.4	286.4	321.2	425.8	500.5	744.6	757.0	498.0	403.4	398.4
62.5°	1474.2	515.5	221.6	226.6	261.5	293.8	510.5	635.0	450.7	383.5	383.5
65°	493.1	254.0	194.2	174.3	174.3	181.8	308.8	440.8	381.0	321.2	321.2
67.5°	211.7	189.3	169.3	151.9	139.5	132.0	174.3	256.5	283.9	244.0	234.1
70°	164.4	159.4	146.9	127.0	109.6	99.6	102.1	132.0	161.9	156.9	151.9
72.5°	122.0	122.0	117.0	99.6	84.7	72.2	67.2	69.7	77.2	79.7	82.2
75°	84.7	87.2	87.2	77.2	62.3	52.3	44.8	37.4	29.9	24.9	22.4
77.5°	57.3	59.8	64.7	57.3	47.3	34.9	27.4	19.9	12.5	5.0	5.0
80°	49.8	57.3	62.3	57.3	49.8	37.4	27.4	14.9	7.5	0.0	0.0
82.5°	52.3	57.3	64.7	54.8	47.3	34.9	27.4	17.4	7.5	2.5	0.0
85°	12.5	12.5	14.9	17.4	22.4	24.9	19.9	12.5	7.5	2.5	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)