

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: P454882

Luminaire Tested: **GALN-SA6A-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19336 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

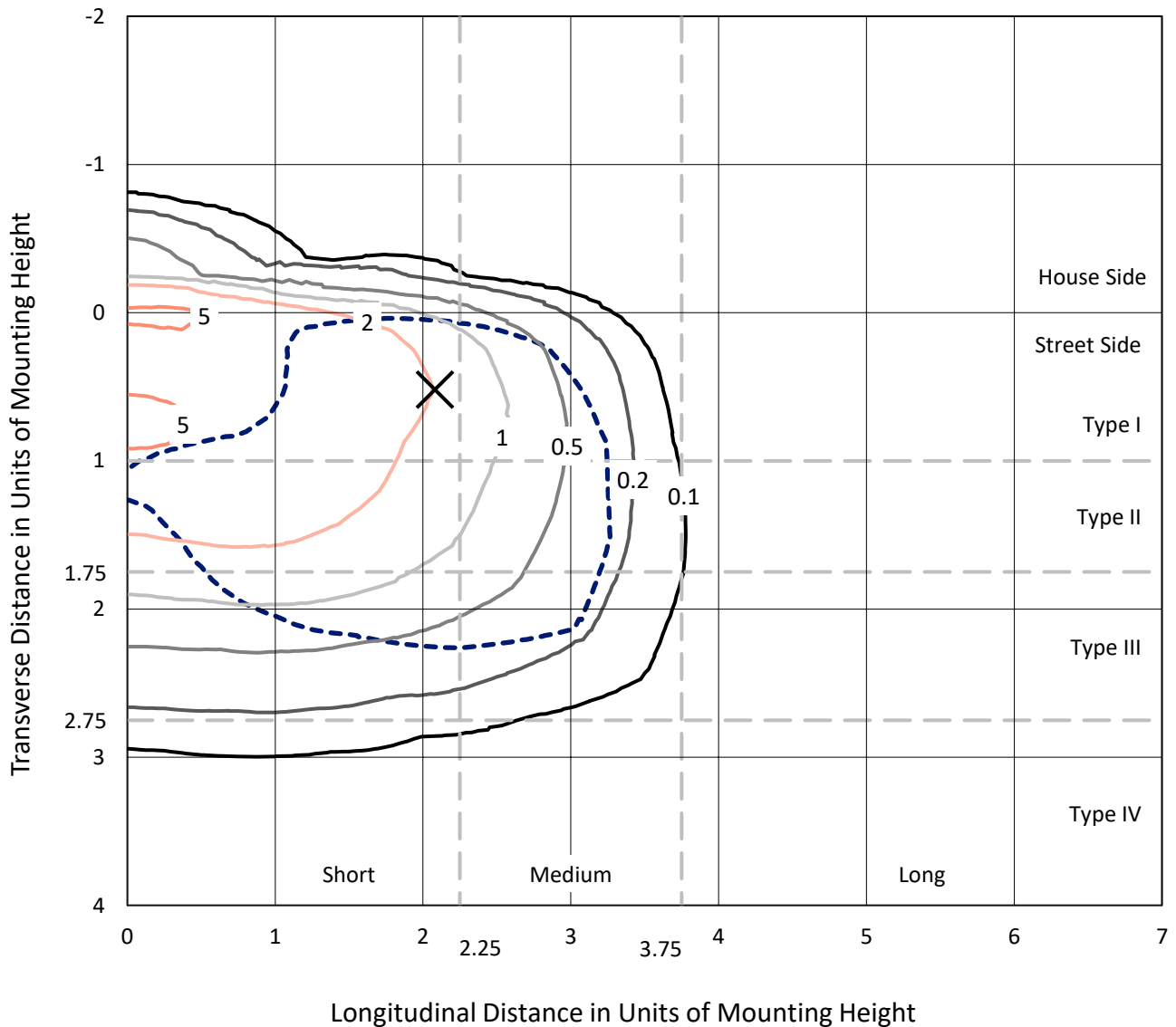
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

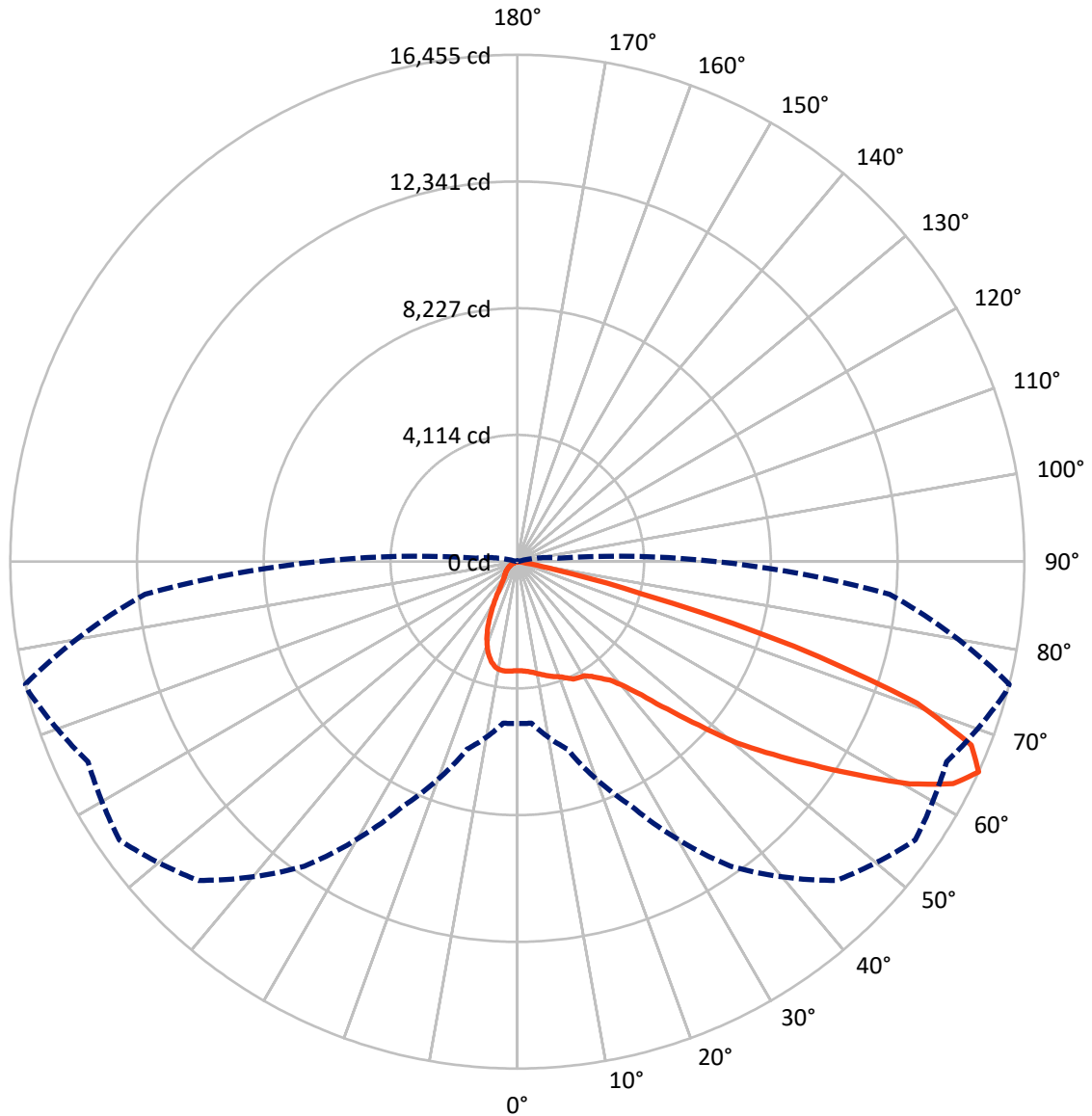
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.4	0.0	1396.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17939.6	0.0	17939.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	19336.0	0.0	19336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.5
10°-20°	648.8	3.4
20°-30°	1045.5	5.4
30°-40°	1817.8	9.4
40°-50°	3003.8	15.5
50°-60°	4640.2	24.0
60°-70°	5666.4	29.3
70°-80°	2150.5	11.1
80°-90°	71.8	0.4
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°	19336.0	100.0
0°-180°	19336.0	100.0

Coefficient of Utilization



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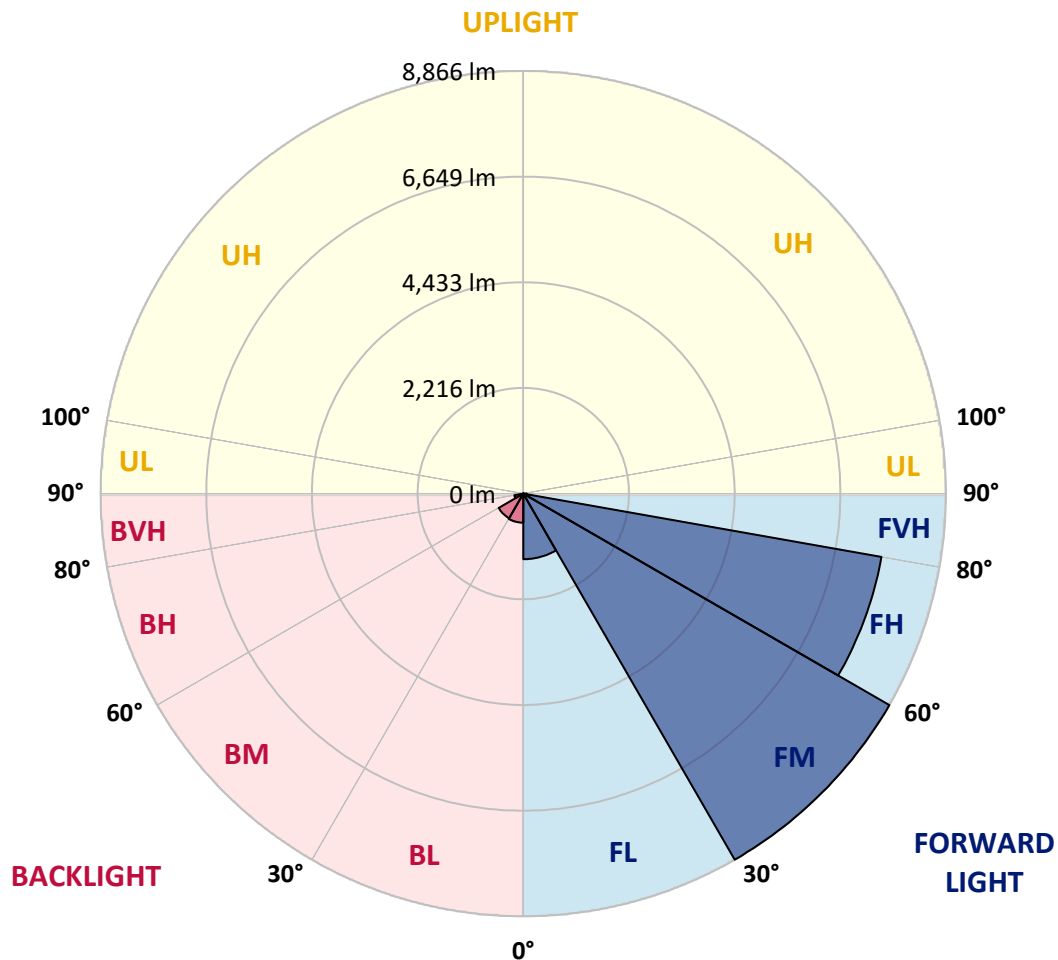
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.5	7.1			
FM	(30°-60°)	8865.8	45.9			
FH	(60°-80°)	7627.4	39.4			G4/12000
FVH	(80°-90°)	70.8	0.4			G1/100
BL	(0°-30°)	610.1	3.2	B2/1000		
BM	(30°-60°)	595.9	3.1	B1/1000		
BH	(60°-80°)	189.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2
2.5°	3380.2	3381.5	3389.7	3410.2	3441.6	3467.5	3489.4	3524.9	3549.5	3552.2	3560.4
5°	3146.7	3130.3	3146.7	3200.0	3247.8	3320.1	3408.8	3497.6	3576.8	3582.2	3620.4
7.5°	2884.6	2898.3	2924.2	2978.8	3068.9	3179.5	3307.8	3466.2	3616.4	3630.0	3705.1
10°	2618.4	2648.4	2690.8	2774.0	2899.6	3043.0	3217.7	3444.3	3679.1	3698.3	3828.0
12.5°	2372.7	2386.3	2438.2	2550.1	2705.8	2907.8	3149.5	3432.1	3748.8	3772.0	3959.0
15°	2184.3	2202.0	2247.1	2348.1	2521.5	2780.9	3093.5	3428.0	3817.0	3849.8	4090.1
17.5°	2148.8	2159.7	2178.8	2247.1	2398.6	2679.8	3043.0	3426.6	3882.6	3922.2	4211.6
20°	2294.9	2285.3	2266.2	2259.4	2342.6	2602.0	3006.1	3437.5	3945.4	3990.4	4339.9
22.5°	2660.7	2673.0	2561.1	2428.6	2401.3	2589.7	3000.7	3489.4	4045.0	4098.3	4483.2
25°	3437.5	3343.3	3168.6	2851.9	2612.9	2664.8	3062.1	3612.3	4161.1	4219.8	4612.9
27.5°	4296.2	4267.5	3995.9	3474.4	3029.3	2823.2	3171.3	3706.5	4199.3	4259.3	4686.6
30°	5139.9	5174.0	4862.8	4286.7	3634.1	3116.7	3273.7	3741.9	4233.4	4296.2	4780.8
32.5°	5922.1	5963.1	5690.1	5119.4	4346.7	3624.5	3449.8	3879.8	4376.8	4440.9	4937.8
35°	6537.8	6543.3	6337.1	5882.5	5124.9	4241.6	3830.7	4121.5	4570.6	4645.7	5104.4
37.5°	7103.0	7094.8	6853.2	6461.4	5773.3	4854.6	4309.9	4400.0	4791.8	4869.6	5344.7
40°	7522.1	7527.6	7449.8	7081.2	6378.1	5421.1	4689.4	4660.7	5163.1	5284.6	5694.1
42.5°	7802.0	7852.5	7890.7	7703.7	7138.5	6118.7	5272.3	5219.1	5807.5	5908.5	6188.3
45°	8028.6	8118.7	8309.8	8300.3	7868.9	6974.7	6072.3	5963.1	6720.8	6828.6	6817.7
47.5°	8193.8	8285.3	8602.0	8793.1	8555.6	7804.7	7078.4	6984.2	7811.5	7928.9	7512.6
50°	8278.4	8387.6	8791.7	9161.7	9092.1	8604.7	8225.2	8230.6	9128.9	9242.2	8318.0
52.5°	8080.5	8222.5	8892.8	9559.0	9694.1	9370.6	9299.6	9479.8	10301.6	10398.5	9045.7
55°	7448.4	7627.2	8754.9	9897.5	10391.7	10274.3	10520.0	10794.4	11583.5	11646.3	9792.4
57.5°	7048.4	7238.2	8348.1	10185.6	11229.9	11410.1	11799.2	11999.9	12906.4	13066.1	10649.7
60°	6711.2	6860.0	8013.6	10247.0	12081.8	12799.9	13178.0	13385.6	14539.1	14642.9	11593.1
62.5°	6150.1	6320.8	7448.4	9818.3	12510.5	13912.5	14696.1	14603.3	15801.9	15874.3	12171.9
65°	5247.7	5262.8	6301.7	8741.2	12068.2	14634.7	15762.3	15373.2	16405.3	16454.5	12126.9
67.5°	3916.7	4061.4	4847.7	6870.9	10193.8	14017.6	16107.7	15393.7	16024.4	15887.9	11164.4
70°	2522.8	2633.4	3286.0	4764.5	7350.1	11698.2	14962.3	14338.4	14064.0	13761.0	9138.5
72.5°	1164.5	1306.5	1952.2	2722.2	4359.0	8333.0	12146.0	11649.0	10122.8	9374.7	5808.8
75°	507.8	543.3	963.8	1436.2	2043.7	4406.8	8008.1	7231.3	4572.0	4176.1	2324.9
77.5°	309.9	333.1	505.1	770.0	802.7	1679.2	4314.0	3154.9	1413.0	1246.4	630.7
80°	210.2	236.2	367.2	402.7	274.4	468.3	1619.1	842.3	285.3	273.0	135.2
82.5°	102.4	129.7	271.7	225.3	118.8	150.2	471.0	180.2	83.3	77.8	47.8
85°	15.0	25.9	152.9	147.4	53.2	35.5	83.3	45.1	28.7	27.3	21.8
87.5°	0.0	0.0	51.9	23.2	5.5	5.5	9.6	9.6	10.9	9.6	10.9
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°	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2	3537.2
2.5°	3564.5	3571.3	3545.4	3508.5	3468.9	3429.3	3373.4	3322.8	3292.8	3310.6	3266.9
5°	3628.6	3623.2	3554.9	3443.0	3294.2	3115.3	2937.9	2786.3	2737.2	2663.5	2655.3
7.5°	3717.4	3702.4	3557.6	3301.0	2965.2	2629.3	2301.7	2084.6	1960.4	1855.3	1858.0
10°	3841.6	3797.9	3526.3	3051.2	2498.3	1991.8	1574.0	1287.4	1163.1	1123.5	1092.1
12.5°	3969.9	3885.3	3438.9	2714.0	1945.4	1361.1	957.0	782.2	705.8	681.2	678.5
15°	4084.6	3950.8	3286.0	2308.5	1414.3	869.6	652.6	595.2	585.7	587.0	585.7
17.5°	4197.9	4002.7	3074.4	1878.5	961.1	623.9	561.1	547.4	551.5	557.0	555.6
20°	4292.1	4013.6	2804.1	1433.4	679.9	547.4	527.0	524.2	528.3	532.4	532.4
22.5°	4394.5	4021.8	2483.3	992.5	555.6	509.2	498.3	498.3	503.8	509.2	510.6
25°	4471.0	3976.8	2099.6	712.6	490.1	472.4	466.9	468.3	473.7	476.4	475.1
27.5°	4483.2	3849.8	1692.8	546.1	445.0	427.3	421.8	427.3	420.5	424.6	421.8
30°	4494.2	3688.7	1280.5	460.1	404.1	376.8	368.6	360.4	354.9	348.1	346.8
32.5°	4528.3	3498.9	935.1	413.6	365.9	335.8	316.7	293.5	275.8	270.3	268.9
35°	4543.3	3271.0	686.7	376.8	331.7	299.0	264.8	232.1	206.1	196.6	203.4
37.5°	4600.6	3049.8	532.4	349.5	301.7	260.7	217.1	176.1	151.5	146.1	148.8
40°	4718.0	2809.5	446.4	326.3	275.8	225.3	172.0	132.4	116.0	110.6	109.2
42.5°	4906.4	2570.6	397.3	304.4	249.8	189.8	135.2	103.8	90.1	86.0	86.0
45°	5135.8	2341.3	363.1	281.2	222.5	152.9	106.5	83.3	75.1	72.4	72.4
47.5°	5437.5	2140.6	334.5	258.0	192.5	121.5	86.0	72.4	66.9	68.3	69.6
50°	5743.3	1991.8	303.1	232.1	158.4	99.7	73.7	64.2	62.8	64.2	64.2
52.5°	5974.0	1904.4	260.7	196.6	124.2	83.3	65.5	60.1	58.7	56.0	56.0
55°	6285.3	1885.3	207.5	159.7	98.3	69.6	58.7	54.6	50.5	47.8	46.4
57.5°	6685.3	1907.2	159.7	124.2	76.4	57.3	51.9	45.1	39.6	34.1	34.1
60°	6933.7	1858.0	124.2	95.6	56.0	46.4	39.6	32.8	25.9	21.8	20.5
62.5°	6854.5	1650.5	98.3	71.0	39.6	34.1	25.9	21.8	15.0	10.9	9.6
65°	6446.4	1332.4	79.2	49.1	28.7	20.5	13.7	13.7	6.8	1.4	0.0
67.5°	5642.3	987.0	62.8	32.8	16.4	9.6	6.8	4.1	0.0	0.0	0.0
70°	4592.5	712.6	49.1	20.5	9.6	6.8	2.7	1.4	0.0	0.0	0.0
72.5°	2916.0	408.2	38.2	12.3	6.8	2.7	0.0	0.0	0.0	0.0	0.0
75°	1127.6	159.7	25.9	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	319.5	75.1	15.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.3	32.8	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.6	13.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.2	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)