

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: P452547

Luminaire Tested: **GALN-SA3C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15811 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

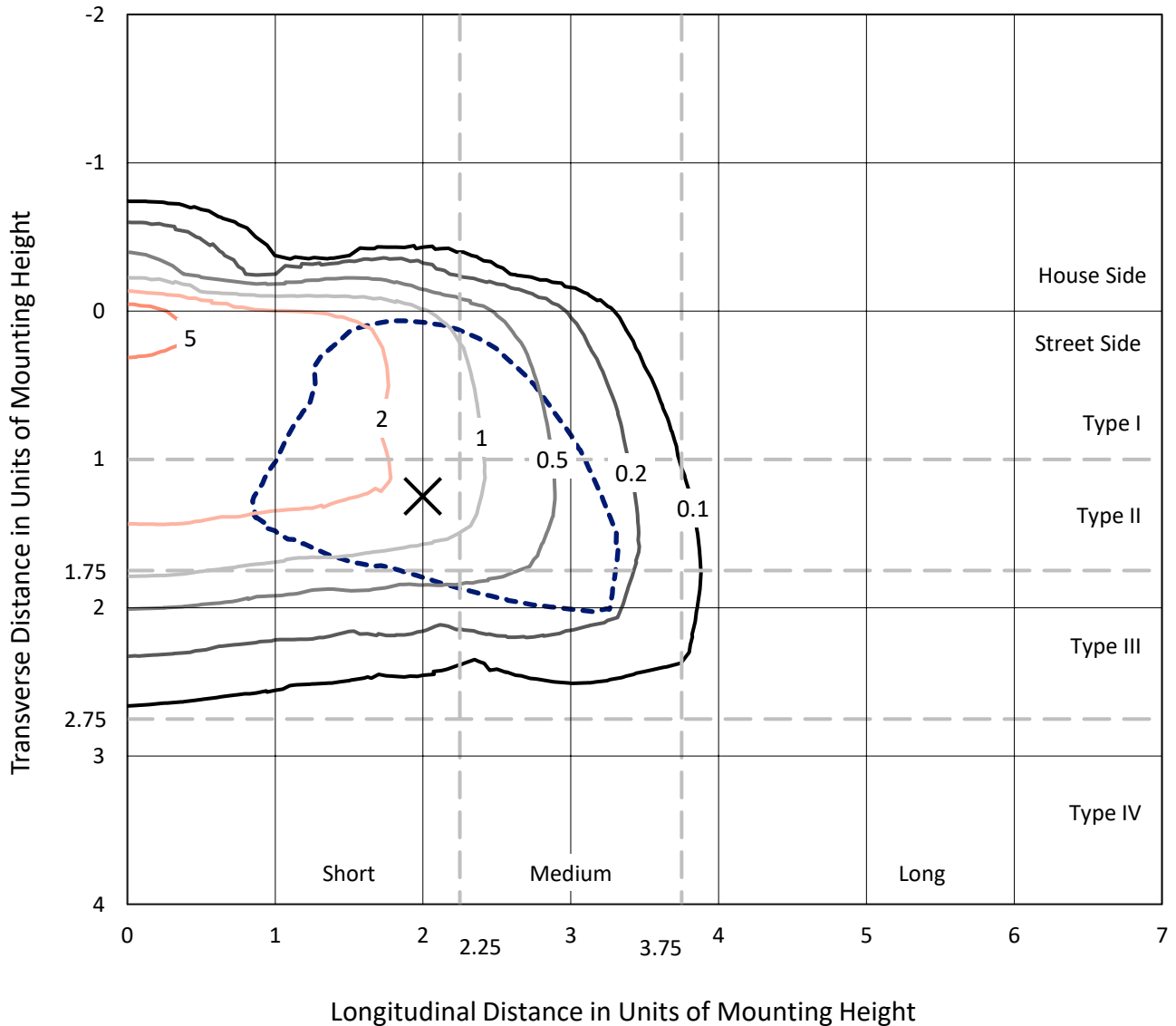
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3C-730-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

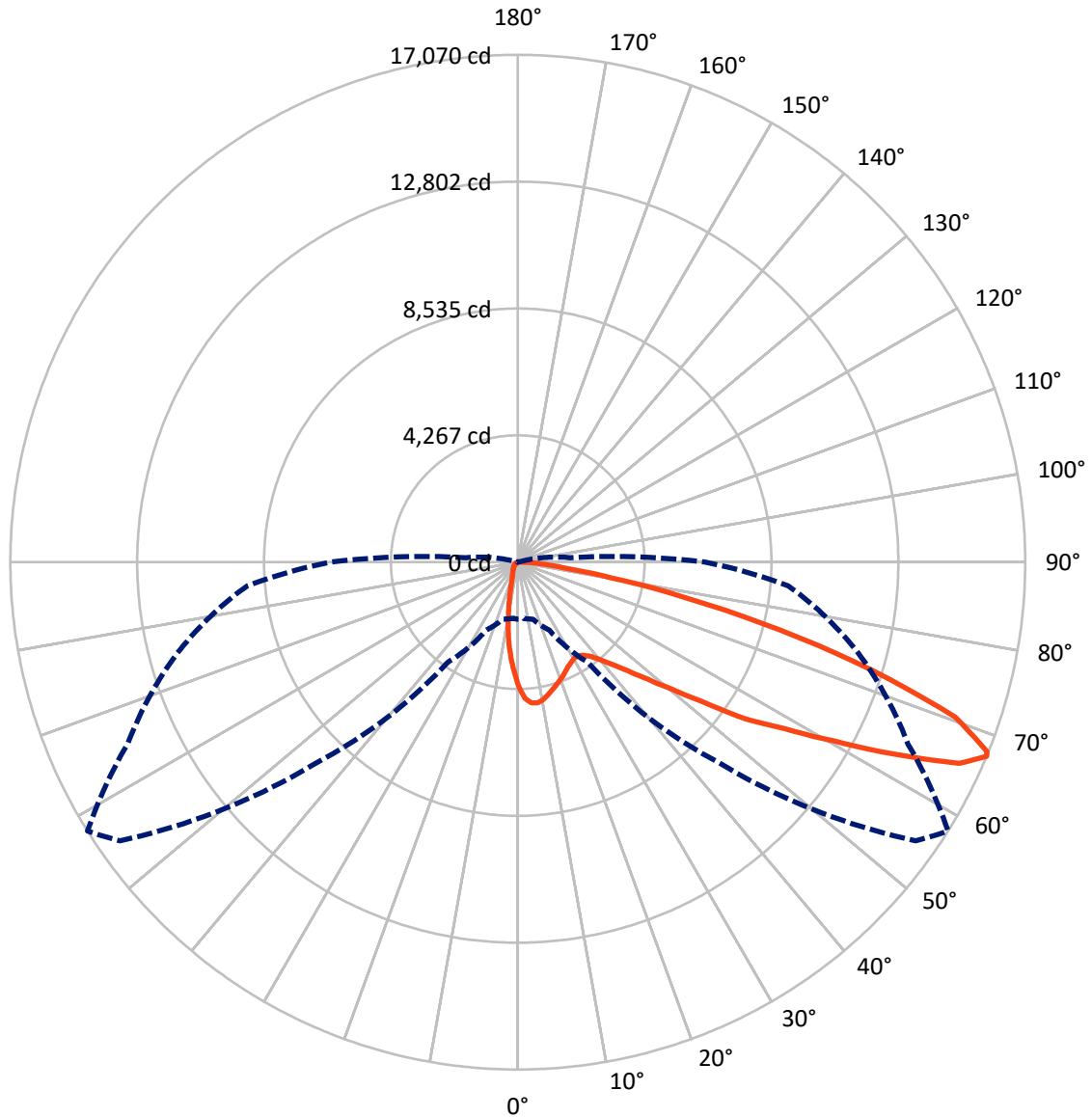
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P452547
CATALOG NUMBER: GALN-SA3C-730-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.0	0.0	1141.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14670.0	0.0	14670.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	15811.0	0.0	15811.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	2.2
10°-20°	734.6	4.6
20°-30°	995.4	6.3
30°-40°	1380.6	8.7
40°-50°	2201.8	13.9
50°-60°	3806.0	24.1
60°-70°	4347.7	27.5
70°-80°	1812.6	11.5
80°-90°	192.2	1.2
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°	15811.0	100.0
0°-180°	15811.0	100.0



REPORT NUMBER: P452547

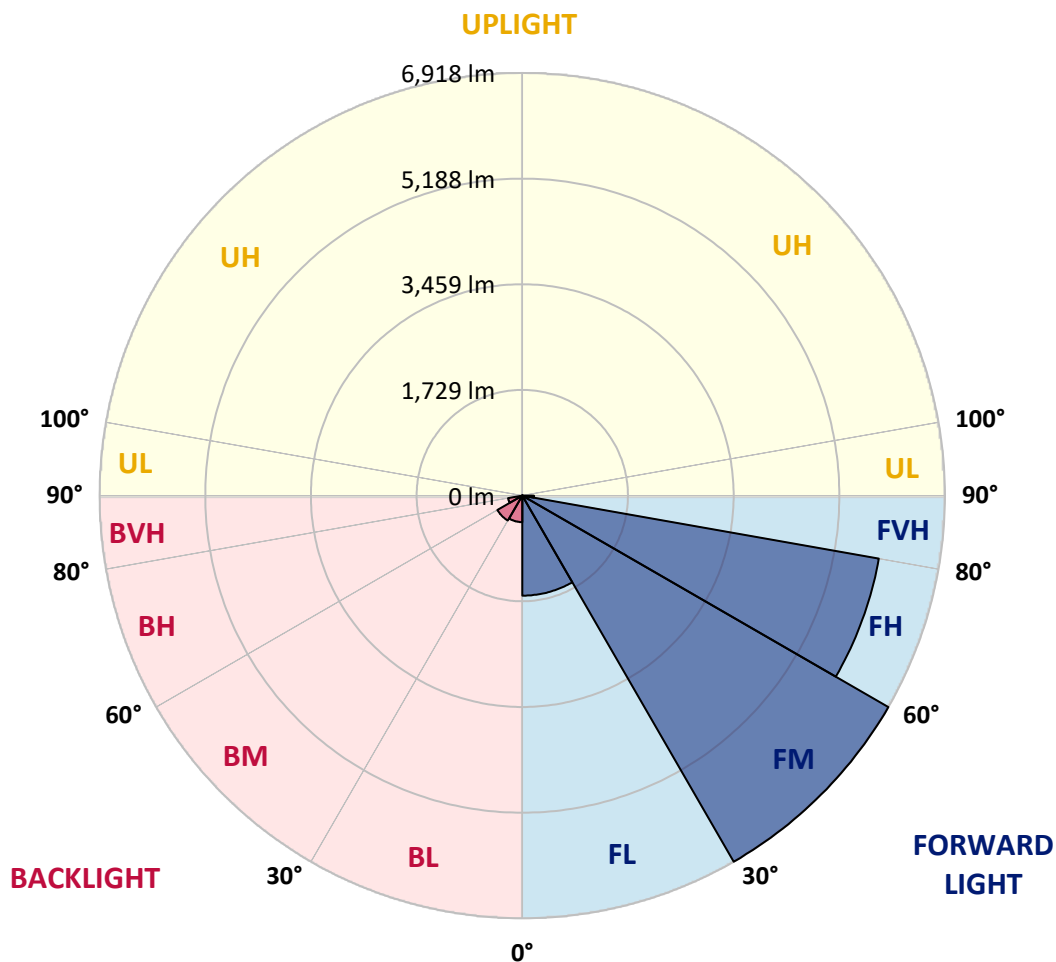
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.8	10.4			
FM (30°-60°)	6918.0	43.8			
FH (60°-80°)	5924.4	37.5			G3/7500
FVH (80°-90°)	190.8	1.2			G2/225
BL (0°-30°)	433.3	2.7	B1/500		
BM (30°-60°)	470.5	3.0	B1/1000		
BH (60°-80°)	235.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4
2.5°	4864.4	4871.8	4844.3	4822.1	4765.1	4703.8	4622.4	4579.1	4505.1	4377.3	4235.7
5°	4978.5	4988.0	4983.8	4978.5	4956.3	4897.1	4793.6	4755.6	4646.7	4438.6	4182.9
7.5°	4724.9	4759.8	4764.0	4805.2	4844.3	4849.6	4810.5	4782.0	4681.6	4437.5	4088.9
10°	4388.9	4412.2	4446.0	4493.5	4587.6	4665.7	4703.8	4699.6	4641.4	4404.8	3979.0
12.5°	4049.8	4062.5	4114.2	4195.6	4310.7	4443.9	4545.3	4565.4	4566.4	4365.7	3887.1
15°	3758.2	3752.9	3793.0	3887.1	4048.7	4215.7	4397.4	4429.1	4479.8	4327.6	3801.5
17.5°	3508.8	3536.3	3542.6	3646.2	3795.1	4011.7	4243.1	4299.1	4400.5	4294.9	3730.7
20°	3354.6	3369.4	3383.1	3441.2	3575.4	3803.6	4098.4	4175.5	4326.6	4265.3	3651.5
22.5°	3309.1	3318.6	3307.0	3325.0	3420.1	3622.9	3940.9	4043.4	4255.8	4237.8	3587.0
25°	3344.0	3353.5	3326.0	3304.9	3337.7	3476.1	3788.8	3913.5	4198.7	4232.6	3538.4
27.5°	3428.5	3446.5	3408.4	3370.4	3351.4	3396.8	3669.4	3814.2	4159.7	4257.9	3516.2
30°	3560.6	3571.2	3542.6	3496.1	3452.8	3407.4	3607.1	3745.5	4149.1	4317.1	3514.1
32.5°	3704.3	3726.5	3710.6	3680.0	3624.0	3516.2	3625.0	3747.6	4174.4	4402.7	3540.5
35°	3881.8	3907.1	3921.9	3915.6	3843.7	3709.6	3739.1	3842.7	4242.1	4560.1	3612.4
37.5°	4056.1	4078.3	4161.8	4190.3	4126.9	4000.1	3961.0	4029.7	4391.0	4766.1	3742.3
40°	4255.8	4285.4	4402.7	4511.5	4480.8	4347.7	4275.9	4332.9	4619.3	5076.7	3988.5
42.5°	4447.0	4499.9	4678.4	4870.7	4899.2	4750.3	4702.7	4721.7	4957.4	5523.7	4331.9
45°	4718.6	4768.2	4998.6	5259.5	5393.7	5277.5	5228.9	5225.7	5421.2	6152.3	4888.7
47.5°	5110.6	5154.9	5426.5	5684.3	5923.0	5938.9	5847.0	5878.7	6004.4	6887.7	5571.2
50°	5591.3	5695.9	5874.4	6142.8	6461.9	6719.7	6748.2	6706.0	6813.7	7739.3	6391.1
52.5°	6289.7	6329.8	6493.6	6714.4	7088.4	7525.8	7865.0	7806.9	7773.1	8550.7	7219.4
55°	6810.5	6864.4	7119.1	7422.3	7970.6	8547.5	9282.9	9303.0	8876.1	9330.4	8029.8
57.5°	6653.1	6735.5	7121.2	7730.8	8936.3	9990.8	10538.1	10551.8	9896.7	10088.0	8944.8
60°	5844.9	5884.0	6436.5	7250.1	9018.7	11554.5	12318.4	12207.4	10935.3	10935.3	9753.1
62.5°	4144.9	4206.1	4654.1	5851.2	8145.0	12097.5	14450.5	14221.2	12365.9	11745.7	10234.8
65°	2648.8	2589.6	2886.5	3693.7	6067.8	11295.6	16306.9	16320.6	13712.0	12070.1	9971.8
67°	1918.7	1895.5	1981.0	2525.2	4114.2	9495.3	16346.0	17069.7	14485.4	11865.1	9130.7
67.5°	1754.9	1772.9	1835.2	2277.9	3738.1	8640.5	16168.5	17025.3	14659.7	11741.5	8826.5
70°	1330.2	1299.6	1367.2	1611.2	2241.0	5450.8	13908.5	15614.8	14443.1	10514.8	7052.5
72.5°	978.4	975.2	1069.2	1317.5	1725.4	2903.4	10440.9	12520.2	11799.6	8006.6	4440.7
75°	660.3	689.9	840.0	1100.9	1563.7	1882.8	7118.0	9083.2	8191.5	4546.4	1815.2
77.5°	376.1	378.2	541.0	884.3	1404.2	1515.1	4217.8	5786.7	4336.1	1511.9	538.8
80°	162.7	178.6	268.4	642.4	1164.3	1341.8	2418.5	3180.2	1753.9	320.1	174.3
82.5°	60.2	70.8	118.3	395.2	849.5	1105.2	1461.2	1518.3	594.8	113.1	108.8
85°	0.0	2.1	43.3	184.9	442.7	493.4	976.3	900.2	263.1	53.9	70.8
87.5°	0.0	0.0	0.0	19.0	58.1	183.8	303.2	338.1	63.4	19.0	16.9
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°	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4	4191.4
2.5°	4159.7	4091.0	3918.8	3746.5	3618.7	3512.0	3351.4	3263.7	3217.2	3148.5	3152.8
5°	4055.1	3915.6	3612.4	3298.6	3045.0	2797.8	2501.9	2382.5	2282.2	2225.1	2187.1
7.5°	3899.7	3693.7	3244.7	2826.3	2436.4	2004.3	1679.9	1463.3	1317.5	1263.6	1211.9
10°	3729.6	3456.0	2871.7	2291.7	1750.7	1304.8	1030.1	831.5	760.7	695.2	701.6
12.5°	3572.2	3239.4	2529.4	1808.8	1226.7	829.4	646.6	565.3	542.0	534.6	534.6
15°	3443.3	3032.3	2161.7	1359.8	841.0	595.9	517.7	495.5	487.1	485.0	485.0
17.5°	3306.0	2835.8	1830.0	1004.8	611.7	498.7	472.3	457.5	454.3	452.2	452.2
20°	3183.4	2638.2	1515.1	748.0	494.5	449.0	432.1	422.6	419.5	417.3	418.4
22.5°	3067.2	2462.8	1219.3	565.3	435.3	408.9	392.0	382.5	376.1	370.9	371.9
25°	2963.6	2293.8	980.5	462.8	392.0	368.7	351.8	338.1	324.4	318.0	317.0
27.5°	2890.7	2145.9	763.9	396.2	352.9	327.5	306.4	289.5	271.5	262.0	259.9
30°	2830.5	1995.8	604.3	349.7	313.8	289.5	263.1	238.8	219.8	210.3	206.0
32.5°	2791.4	1853.2	476.5	311.7	281.0	251.5	221.9	197.6	176.4	166.9	164.8
35°	2785.1	1733.8	389.9	280.0	251.5	219.8	189.1	162.7	144.7	135.2	133.1
37.5°	2830.5	1641.9	326.5	254.6	227.2	192.3	158.5	134.2	118.3	110.9	109.9
40°	2952.0	1583.8	283.2	233.5	205.0	166.9	135.2	114.1	98.3	90.9	90.9
42.5°	3183.4	1585.9	254.6	213.4	182.8	142.6	115.2	95.1	81.4	75.0	72.9
45°	3544.7	1657.7	230.3	193.3	161.7	123.6	98.3	78.2	64.4	59.2	59.2
47.5°	4028.6	1800.4	209.2	173.3	142.6	105.7	83.5	63.4	51.8	46.5	46.5
50°	4661.5	2029.6	191.2	156.4	126.8	90.9	67.6	51.8	40.1	35.9	34.9
52.5°	5322.9	2312.8	170.1	141.6	108.8	77.1	54.9	40.1	30.6	27.5	26.4
55°	6053.0	2589.6	150.0	126.8	88.8	64.4	43.3	31.7	22.2	19.0	19.0
57.5°	6789.4	2861.1	125.7	105.7	69.7	47.5	33.8	23.2	14.8	11.6	11.6
60°	7412.8	2948.8	106.7	85.6	52.8	33.8	24.3	14.8	8.5	5.3	5.3
62.5°	7498.4	2653.0	89.8	65.5	38.0	23.2	12.7	8.5	3.2	2.1	2.1
65°	7033.5	2155.4	75.0	49.7	25.4	11.6	5.3	3.2	1.1	0.0	0.0
67°	6302.3	1747.5	61.3	37.0	18.0	7.4	3.2	1.1	0.0	0.0	0.0
67.5°	6115.3	1666.2	59.2	34.9	15.8	6.3	2.1	1.1	0.0	0.0	0.0
70°	4798.9	1247.8	42.3	21.1	9.5	4.2	0.0	0.0	0.0	0.0	0.0
72.5°	2982.7	705.8	30.6	12.7	6.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	1127.3	247.2	21.1	8.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	350.8	94.0	12.7	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.3	35.9	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.9	14.8	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	2.1	1.1	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)