

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: STREETWORKS

Report Number: P383049

Luminaire Tested: **GAN-SA4A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14335.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

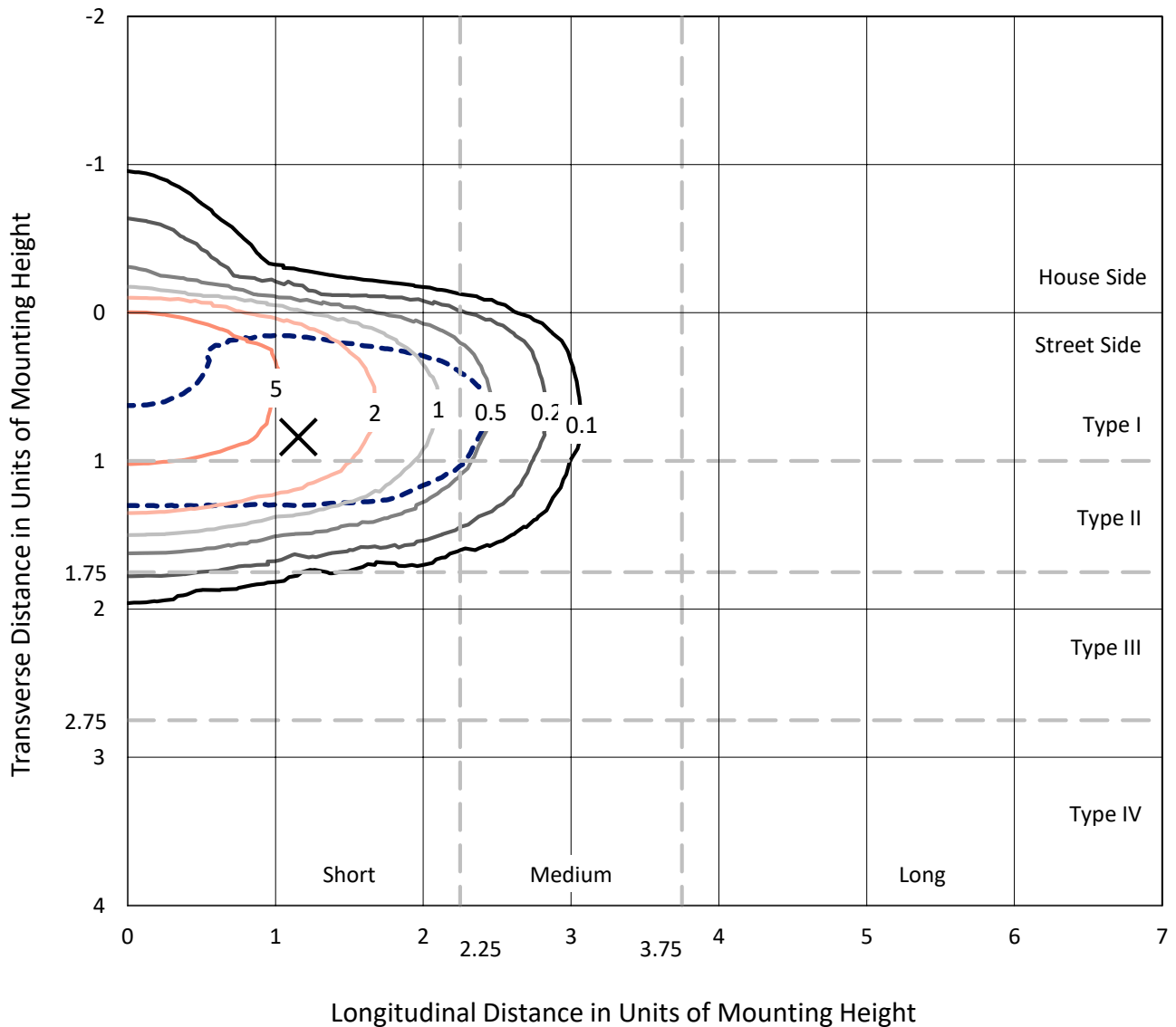
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

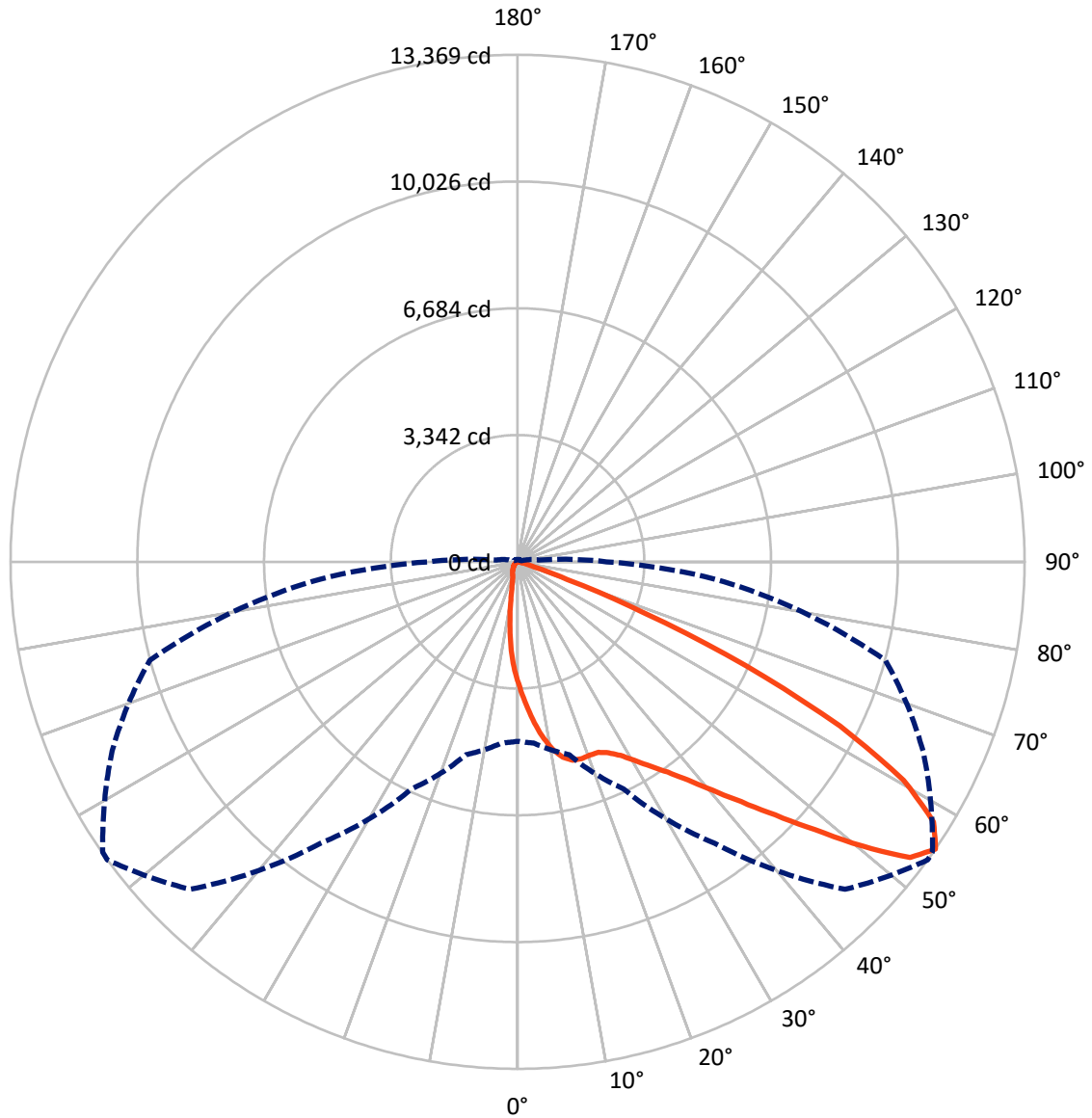
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	715.2	0.0	715.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13620.4	0.0	13620.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	14335.6	0.0	14335.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.7	2.1
10°-20°	810.9	5.7
20°-30°	1384.4	9.7
30°-40°	2221.7	15.5
40°-50°	3550.3	24.8
50°-60°	3804.3	26.5
60°-70°	1953.2	13.6
70°-80°	295.9	2.1
80°-90°	19.3	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°	14335.6	100.0
0°-180°	14335.6	100.0

Coefficient of Utilization

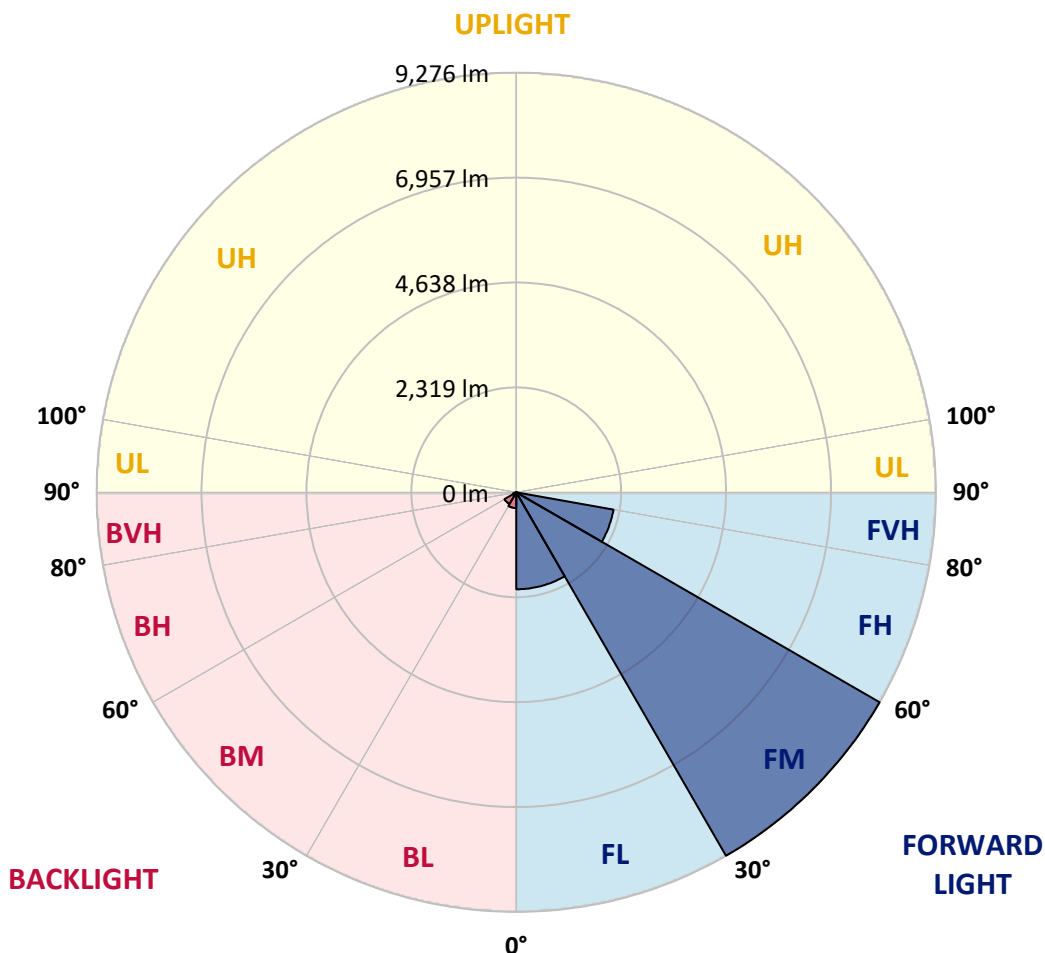


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.9	14.9			
FM (30°-60°)	9275.8	64.7			
FH (60°-80°)	2183.2	15.2			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	348.0	2.4	B1/500		
BM (30°-60°)	300.6	2.1	B1/1000		
BH (60°-80°)	65.9	0.5	B0/110		G0/110
BVH (80°-90°)	0.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6
2.5°	4029.0	3969.0	3970.8	3943.6	3843.9	3765.9	3684.8	3665.6	3539.3	3406.9	3279.3
5°	4725.5	4681.6	4671.1	4618.4	4479.7	4333.0	4175.8	4139.2	3892.2	3621.0	3354.2
7.5°	5083.4	5083.9	5075.3	5056.1	4969.4	4827.0	4635.1	4596.7	4260.5	3853.8	3432.2
10°	4979.3	5002.9	5051.1	5114.9	5181.2	5163.2	5019.0	4984.2	4619.0	4100.2	3518.9
12.5°	4736.6	4739.7	4793.7	4898.3	5089.0	5284.6	5287.0	5275.3	4961.4	4357.8	3614.2
15°	4615.9	4627.6	4647.5	4715.0	4895.7	5209.0	5433.2	5449.8	5275.3	4631.4	3715.8
17.5°	4695.2	4711.9	4695.2	4703.2	4807.8	5089.5	5458.5	5501.3	5549.5	4902.0	3811.7
20°	4910.0	4925.5	4895.7	4863.0	4883.4	5054.9	5440.5	5498.1	5764.3	5142.1	3892.2
22.5°	5199.7	5206.0	5160.7	5106.8	5092.0	5172.5	5455.4	5514.9	5936.5	5359.5	3943.0
25°	5518.6	5524.2	5467.8	5405.9	5370.6	5403.4	5577.4	5622.0	6088.1	5566.8	3972.1
27.5°	5865.9	5870.8	5800.3	5724.1	5683.3	5684.5	5778.6	5826.3	6249.7	5803.4	3995.6
30°	6233.0	6230.5	6165.5	6059.6	6007.6	6006.4	6068.3	6116.6	6483.8	6106.7	4027.8
32.5°	6645.3	6640.4	6548.1	6416.9	6358.0	6366.8	6421.8	6449.7	6774.0	6429.8	4085.4
35°	7188.3	7174.0	7034.7	6871.9	6763.6	6760.4	6806.9	6829.2	7144.3	6821.2	4181.3
37.5°	7892.7	7879.8	7691.0	7454.4	7302.1	7245.2	7300.3	7328.8	7672.4	7323.2	4335.5
40°	8587.4	8574.4	8462.4	8245.7	8011.0	7874.2	7917.5	7947.9	8331.7	7932.4	4529.8
42.5°	9066.6	9077.7	9116.7	9134.7	8914.9	8627.6	8647.5	8679.0	9024.5	8583.7	4752.1
45°	9192.9	9217.0	9437.4	9870.1	9952.5	9728.3	9521.0	9538.3	9728.3	9235.0	4974.4
47.5°	8813.4	8857.9	9283.2	10088.1	10785.2	10943.6	10551.2	10528.3	10403.8	9761.8	5132.3
50°	7950.9	7991.8	8542.9	9733.3	11037.7	12103.8	11785.6	11718.1	10996.3	10076.9	5188.0
52.5°	6702.9	6752.4	7200.0	8616.4	10561.7	12621.4	12954.5	12898.1	11430.8	10101.7	5197.3
55°	4733.6	4793.7	5267.2	6603.8	9053.0	12209.7	13368.6	13351.9	11791.8	10036.0	5217.0
57.5°	2660.2	2703.5	3214.3	4233.3	6630.5	10634.7	12935.8	13046.7	12009.7	9922.1	5246.8
60°	1181.2	1192.9	1457.3	2107.3	3881.7	8127.4	11697.1	11884.0	11822.7	9769.9	5297.0
62.5°	655.0	645.1	645.1	876.0	1687.0	5031.4	9538.3	9847.2	11024.8	9589.7	5299.4
65°	513.2	504.0	477.3	481.1	642.6	2233.0	6605.0	7154.2	9509.2	9061.6	5121.1
67.5°	435.2	427.2	400.6	390.0	399.4	736.8	3629.1	4199.3	7215.5	7689.1	4435.8
70°	367.8	362.2	348.6	335.5	312.0	364.0	1388.7	1776.2	4446.3	5114.9	3028.0
72.5°	296.0	293.4	298.4	287.3	258.8	242.7	474.8	575.1	1997.1	2282.6	1247.4
75°	255.1	253.8	256.3	245.2	213.0	169.0	241.5	263.7	563.4	558.5	252.5
77.5°	165.9	167.8	212.4	207.4	183.2	112.7	125.0	135.0	170.8	128.2	76.8
80°	105.8	104.6	107.7	172.1	164.7	86.1	62.5	65.6	82.3	63.2	37.2
82.5°	64.4	63.2	70.6	80.5	83.0	60.1	38.4	39.0	51.4	40.9	19.8
85°	5.6	7.5	42.8	39.6	28.5	18.5	18.5	19.8	27.2	24.1	11.2
87.5°	0.0	0.0	7.5	11.2	6.1	6.8	6.8	7.5	10.5	10.5	5.6
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°	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6	3210.6
2.5°	3213.1	3148.7	3018.7	2893.7	2787.7	2685.7	2569.2	2454.1	2400.2	2378.5	2356.3
5°	3218.7	3086.1	2818.1	2548.2	2268.3	2016.3	1801.5	1581.1	1470.9	1422.7	1400.4
7.5°	3226.0	3024.3	2590.9	2137.7	1687.0	1345.2	1046.9	855.0	772.0	759.0	726.8
10°	3227.3	2949.4	2327.2	1684.5	1131.1	811.0	624.0	525.0	488.5	482.3	471.7
12.5°	3229.8	2860.8	2034.3	1247.4	754.1	542.3	451.3	418.5	408.6	408.0	408.0
15°	3237.2	2767.9	1730.3	898.9	541.7	429.6	396.2	383.2	379.5	381.4	380.7
17.5°	3237.2	2658.4	1432.0	669.9	437.7	386.3	367.8	359.1	357.8	359.7	360.3
20°	3213.7	2525.2	1158.3	521.3	388.2	358.5	341.7	333.7	330.6	331.8	332.5
22.5°	3157.4	2361.8	935.5	431.5	355.4	333.0	315.1	302.8	297.8	298.4	298.4
25°	3069.4	2168.1	731.7	373.3	328.7	305.8	284.8	270.5	267.4	266.8	268.1
27.5°	2956.7	1953.8	582.6	328.7	297.2	275.5	254.4	242.7	240.2	240.8	241.5
30°	2846.0	1731.6	459.3	291.0	261.9	241.5	225.3	219.8	219.8	221.6	222.3
32.5°	2744.4	1518.0	363.4	258.1	230.3	211.7	202.4	201.9	204.9	206.2	206.8
35°	2657.1	1320.6	300.9	232.8	205.5	189.5	186.3	188.8	192.6	195.0	195.6
37.5°	2595.2	1144.0	263.1	211.7	186.3	173.4	172.7	177.6	182.7	188.2	189.5
40°	2569.2	994.9	237.1	193.1	170.8	161.0	159.1	165.9	175.2	183.2	184.4
42.5°	2547.6	873.0	214.8	175.2	158.5	144.2	143.6	152.3	163.4	171.5	173.4
45°	2529.0	775.1	194.4	156.0	142.4	123.8	125.7	136.8	145.5	154.2	156.0
47.5°	2490.6	694.7	172.1	135.5	117.7	105.8	109.5	119.5	126.3	139.3	141.1
50°	2421.8	629.0	149.2	110.9	95.9	91.7	97.2	104.0	112.7	123.8	125.0
52.5°	2375.4	579.4	129.4	92.9	79.3	80.5	86.1	88.5	93.5	97.8	96.6
55°	2348.8	552.2	113.3	80.5	67.4	71.2	72.5	69.3	66.9	62.5	60.6
57.5°	2345.7	527.4	100.9	70.0	59.4	61.3	56.9	46.4	37.7	32.8	31.6
60°	2340.8	497.2	91.0	58.8	52.6	50.1	40.9	25.3	18.0	16.7	16.7
62.5°	2286.9	450.1	83.6	49.6	44.5	37.7	23.6	11.7	9.9	10.5	10.5
65°	2115.5	384.4	76.1	40.2	35.3	27.2	11.7	6.8	3.7	4.4	4.4
67.5°	1798.4	306.5	68.1	30.9	26.6	17.3	6.8	3.1	0.0	0.0	0.0
70°	1204.1	190.0	57.6	21.7	17.3	10.5	4.9	0.7	0.0	0.0	0.0
72.5°	461.9	102.7	46.4	13.0	11.2	7.5	3.1	0.0	0.0	0.0	0.0
75°	104.0	67.4	32.2	9.3	8.0	4.9	1.2	0.0	0.0	0.0	0.0
77.5°	39.6	48.9	18.5	6.1	5.6	3.1	0.0	0.0	0.0	0.0	0.0
80°	19.2	29.1	8.7	3.7	3.1	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.9	11.2	3.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	5.6	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.9	0.7	0.7	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)