

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: P321633

Luminaire Tested: **GAN-SA9A-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 32042 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

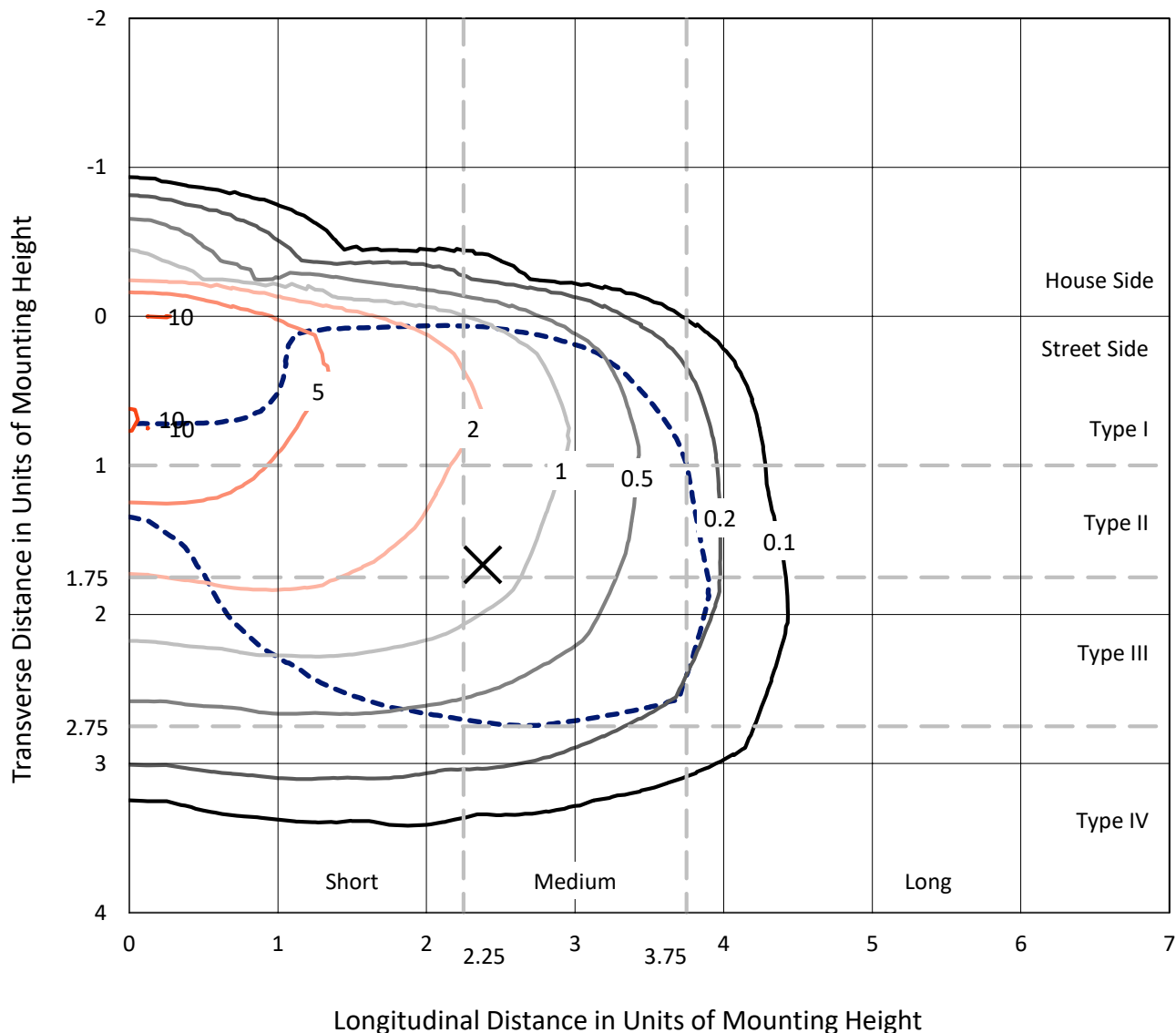
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

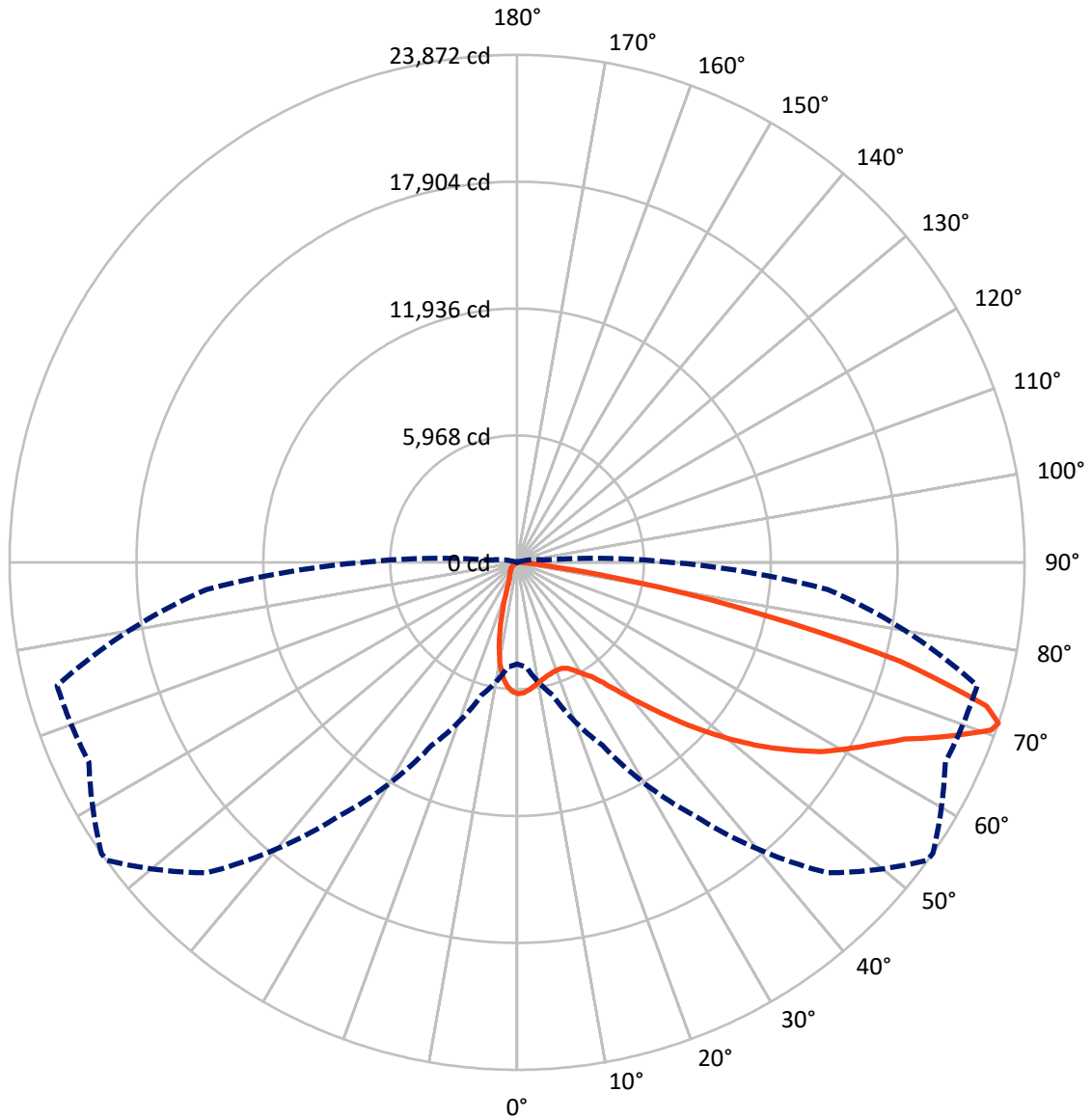
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.9	0.0	2536.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	29505.2	0.0	29505.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	32042.0	0.0	32042.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	1.6
10°-20°	1189.5	3.7
20°-30°	1911.5	6.0
30°-40°	3247.8	10.1
40°-50°	5040.9	15.7
50°-60°	6777.4	21.2
60°-70°	8291.0	25.9
70°-80°	4847.5	15.1
80°-90°	209.5	0.7
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°	32042.0	100.0
0°-180°	32042.0	100.0

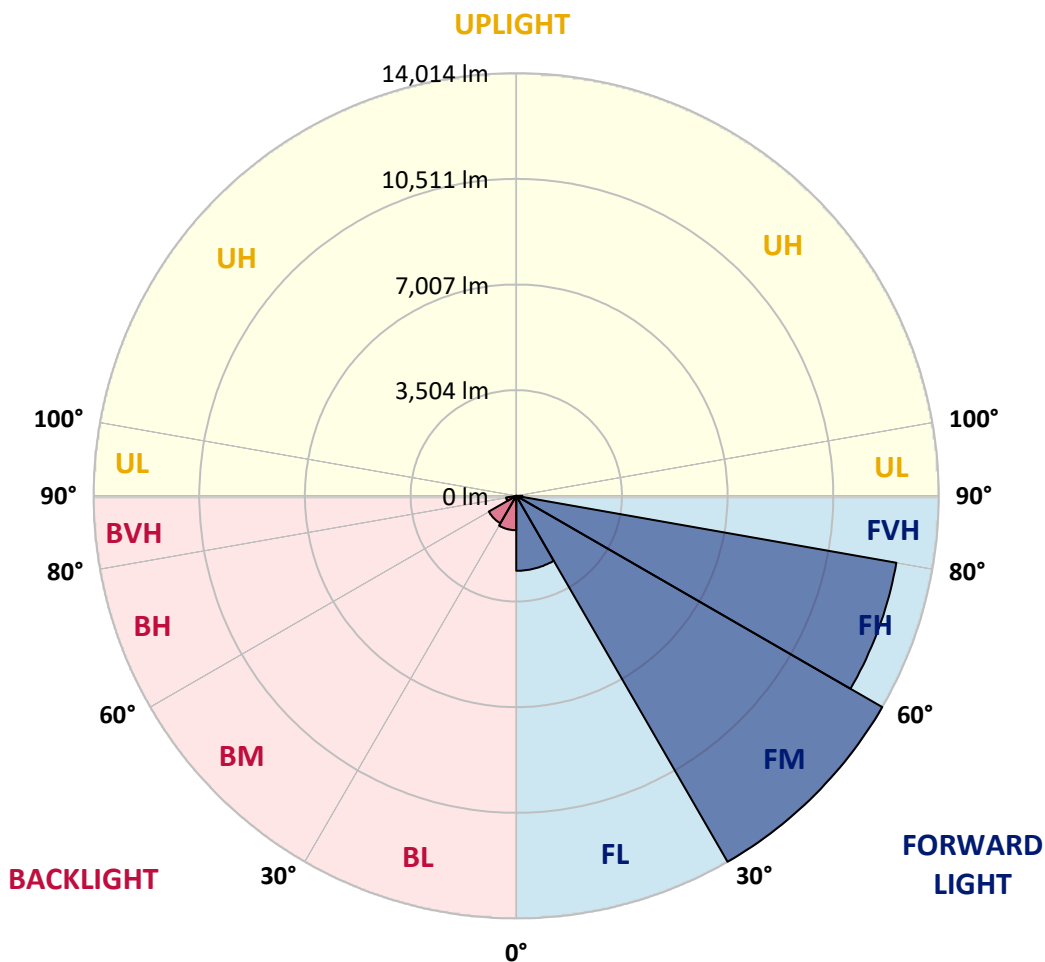


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.0	7.8			
FM (30°-60°)	14014.2	43.7			
FH (60°-80°)	12798.7	39.9			G5
FVH (80°-90°)	206.2	0.6			G2/225
BL (0°-30°)	1141.8	3.6	B3/2500		
BM (30°-60°)	1051.8	3.3	B2/2500		
BH (60°-80°)	339.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4
2.5°	5998.1	6005.3	6031.2	6042.7	6070.1	6116.1	6139.1	6140.6	6178.0	6192.4	6203.9
5°	5573.7	5616.9	5660.0	5706.1	5789.5	5900.3	6009.6	6019.7	6140.6	6229.8	6277.2
7.5°	5208.3	5247.1	5298.9	5372.3	5490.3	5664.3	5847.1	5868.6	6097.4	6300.3	6406.7
10°	4832.7	4864.4	4939.2	5047.1	5209.7	5442.8	5688.8	5724.8	6058.6	6395.2	6582.3
12.5°	4431.3	4450.0	4540.7	4696.1	4934.9	5231.3	5555.0	5602.5	6034.1	6504.6	6789.4
15°	4126.3	4135.0	4221.3	4382.4	4655.8	5041.4	5451.4	5509.0	6039.9	6635.5	7015.3
17.5°	4048.6	4052.9	4099.0	4209.8	4451.5	4871.6	5369.4	5439.9	6057.1	6763.5	7242.6
20°	4363.7	4333.5	4286.0	4268.8	4372.3	4769.4	5320.5	5399.6	6080.1	6877.2	7447.0
22.5°	5228.4	5139.2	4942.1	4678.8	4519.1	4776.6	5333.4	5412.6	6153.5	7016.8	7682.9
25°	6511.8	6388.0	6052.8	5534.9	5037.1	4983.8	5441.3	5521.9	6296.0	7183.7	7908.8
27.5°	7972.1	7849.8	7439.8	6700.2	5851.4	5393.9	5688.8	5763.6	6507.4	7331.9	8081.4
30°	9370.6	9336.0	8852.6	8012.4	6875.8	6058.6	6008.2	6071.5	6664.3	7421.1	8218.1
32.5°	10556.1	10501.4	10112.9	9295.7	8048.3	6857.1	6383.7	6402.4	6782.2	7536.2	8396.5
35°	11655.3	11587.7	11246.7	10474.1	9251.1	7832.5	6962.1	6934.8	7039.8	7767.8	8655.5
37.5°	12614.9	12676.8	12298.4	11563.2	10330.2	8846.8	7741.9	7659.9	7442.6	8144.7	9031.0
40°	13417.7	13417.7	13220.6	12607.7	11495.6	9895.7	8623.8	8515.9	8048.3	8726.0	9507.2
42.5°	13706.9	13768.8	13842.2	13495.4	12538.7	10986.3	9606.5	9494.3	8901.5	9550.4	10108.6
45°	13724.2	13822.0	14197.5	14196.1	13481.1	12069.6	10714.3	10661.1	9995.0	10609.3	10853.9
47.5°	13481.1	13603.3	14222.0	14573.1	14227.8	13078.2	11925.8	11859.6	11279.8	11907.1	11633.7
50°	13105.5	13240.8	13960.2	14721.3	14735.6	13955.8	13201.9	13102.7	12694.1	13390.4	12439.4
52.5°	12433.6	12695.5	13725.6	14755.8	15069.4	14714.1	14416.2	14373.1	14276.7	14819.1	13081.1
55°	10996.3	11287.0	13137.2	14767.3	15378.8	15386.0	15554.3	15565.8	15760.0	16154.2	13558.7
57.5°	10317.2	10481.3	12109.9	14822.0	15837.7	16148.5	16713.9	16803.1	17103.8	17421.8	14104.0
60°	9889.9	10084.2	11603.5	14747.1	16558.5	17148.4	17788.7	17818.9	18141.2	18729.6	14842.1
62.5°	9549.0	9740.3	11284.1	14459.4	17368.5	18351.2	18838.9	18841.8	19083.5	20287.8	15680.9
65°	8707.3	8868.4	10638.1	14135.7	17903.8	19541.1	20059.0	20040.3	20237.4	21930.8	16654.9
67.5°	7490.1	7613.8	9318.8	12908.4	17702.3	20623.0	21900.6	21838.7	21599.9	23350.8	17037.6
70°	5791.0	5835.6	7344.8	10757.5	15814.7	21038.8	23680.3	23648.7	22435.8	23096.2	15634.9
71°	4786.7	4933.5	6472.9	9494.3	14550.0	20654.6	23853.0	23871.7	22225.8	22402.7	14669.5
72.5°	2779.7	2904.8	4691.8	7291.6	12353.1	19051.9	22958.1	23093.3	21244.5	20377.0	12530.0
75°	595.6	637.4	1739.4	3529.2	6795.2	13353.0	18121.0	18603.0	17315.3	13862.3	7552.0
77.5°	414.4	447.5	745.3	1601.3	2245.9	6598.1	11256.7	11800.6	10344.6	5209.7	2417.1
80°	328.0	365.4	581.3	791.3	607.2	2127.9	5273.0	5605.4	3450.1	1162.5	407.2
82.5°	182.7	217.3	453.2	427.3	233.1	404.3	1476.2	1668.9	690.6	234.5	96.4
85°	53.2	64.7	292.1	310.8	99.3	77.7	251.8	312.2	130.9	61.9	43.2
87.5°	0.0	0.0	141.0	119.4	28.8	11.5	23.0	25.9	25.9	25.9	28.8
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°	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4	6179.4
2.5°	6203.9	6213.9	6178.0	6130.5	6080.1	6018.3	5953.5	5903.2	5901.7	5877.3	5852.8
5°	6280.1	6274.4	6175.1	6024.0	5845.6	5660.0	5483.1	5283.1	5216.9	5134.9	5107.5
7.5°	6421.1	6380.8	6170.8	5839.9	5448.5	5060.1	4658.7	4254.4	4081.7	3926.3	3899.0
10°	6598.1	6521.8	6143.4	5563.6	4845.7	4129.2	3523.5	2973.9	2732.2	2546.6	2537.9
12.5°	6782.2	6665.7	6067.2	5146.4	4055.8	3048.7	2350.9	1809.9	1608.5	1479.0	1490.5
15°	6975.0	6801.0	5903.2	4583.8	3156.6	2068.9	1444.5	1126.5	1046.0	1012.9	1021.5
17.5°	7172.1	6894.5	5674.4	3906.2	2268.9	1335.2	999.9	910.7	910.7	917.9	920.8
20°	7343.4	6944.8	5337.7	3146.5	1538.0	972.6	874.8	861.8	869.0	880.5	882.0
22.5°	7513.1	6947.7	4898.9	2376.8	1076.2	851.7	833.0	827.3	831.6	844.5	846.0
25°	7651.3	6913.2	4349.3	1690.5	858.9	802.8	794.2	791.3	794.2	810.0	810.0
27.5°	7707.4	6788.0	3678.9	1188.4	769.7	748.1	745.3	748.1	752.5	764.0	765.4
30°	7713.1	6569.3	2948.0	860.4	697.8	674.8	680.5	690.6	686.3	683.4	686.3
32.5°	7727.5	6316.1	2235.8	707.9	637.4	601.4	594.2	594.2	576.9	566.9	561.1
35°	7775.0	6018.3	1621.5	635.9	575.5	533.8	506.4	474.8	441.7	424.4	420.1
37.5°	7849.8	5706.1	1161.1	588.4	520.8	473.3	421.6	365.4	318.0	305.0	305.0
40°	7986.5	5383.8	858.9	551.0	477.7	418.7	341.0	267.6	224.4	217.3	217.3
42.5°	8202.3	5044.2	684.8	517.9	440.3	362.6	260.4	194.2	162.6	158.3	156.8
45°	8426.7	4670.2	598.5	486.3	400.0	297.8	192.8	143.9	125.2	120.9	120.9
47.5°	8651.2	4271.6	556.8	456.1	361.1	231.6	143.9	113.7	105.0	105.0	106.5
50°	8841.1	3855.8	526.6	423.0	310.8	175.5	113.7	96.4	93.5	99.3	100.7
52.5°	8888.6	3447.2	489.2	381.3	248.9	133.8	93.5	84.9	84.9	84.9	84.9
55°	8859.8	3130.7	440.3	329.5	184.2	106.5	80.6	74.8	73.4	73.4	73.4
57.5°	8957.6	2943.7	352.5	256.1	132.4	86.3	70.5	66.2	63.3	61.9	61.9
60°	9154.7	2821.4	251.8	184.2	99.3	71.9	60.4	56.1	51.8	48.9	48.9
62.5°	9416.6	2714.9	187.0	136.7	76.3	57.5	50.4	46.0	40.3	37.4	37.4
65°	9618.0	2525.0	142.4	102.2	57.5	46.0	38.8	37.4	28.8	25.9	24.5
67.5°	9310.1	2107.8	115.1	74.8	43.2	36.0	30.2	28.8	17.3	14.4	14.4
70°	7985.0	1467.5	92.1	54.7	31.7	28.8	24.5	18.7	12.9	11.5	11.5
71°	7241.2	1225.8	83.4	46.0	27.3	27.3	23.0	15.8	11.5	10.1	10.1
72.5°	6015.4	870.4	70.5	36.0	24.5	28.8	24.5	14.4	11.5	10.1	8.6
75°	3491.8	364.0	48.9	24.5	18.7	34.5	31.7	12.9	8.6	7.2	7.2
77.5°	1050.3	133.8	27.3	15.8	14.4	30.2	36.0	11.5	4.3	1.4	1.4
80°	191.4	57.5	17.3	10.1	10.1	18.7	27.3	5.8	0.0	0.0	0.0
82.5°	67.6	28.8	10.1	5.8	4.3	8.6	12.9	0.0	0.0	0.0	0.0
85°	38.8	20.1	5.8	2.9	0.0	1.4	2.9	0.0	0.0	0.0	0.0
87.5°	25.9	5.8	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)