

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: P382896

Luminaire Tested: **GAN-SA2C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10881.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

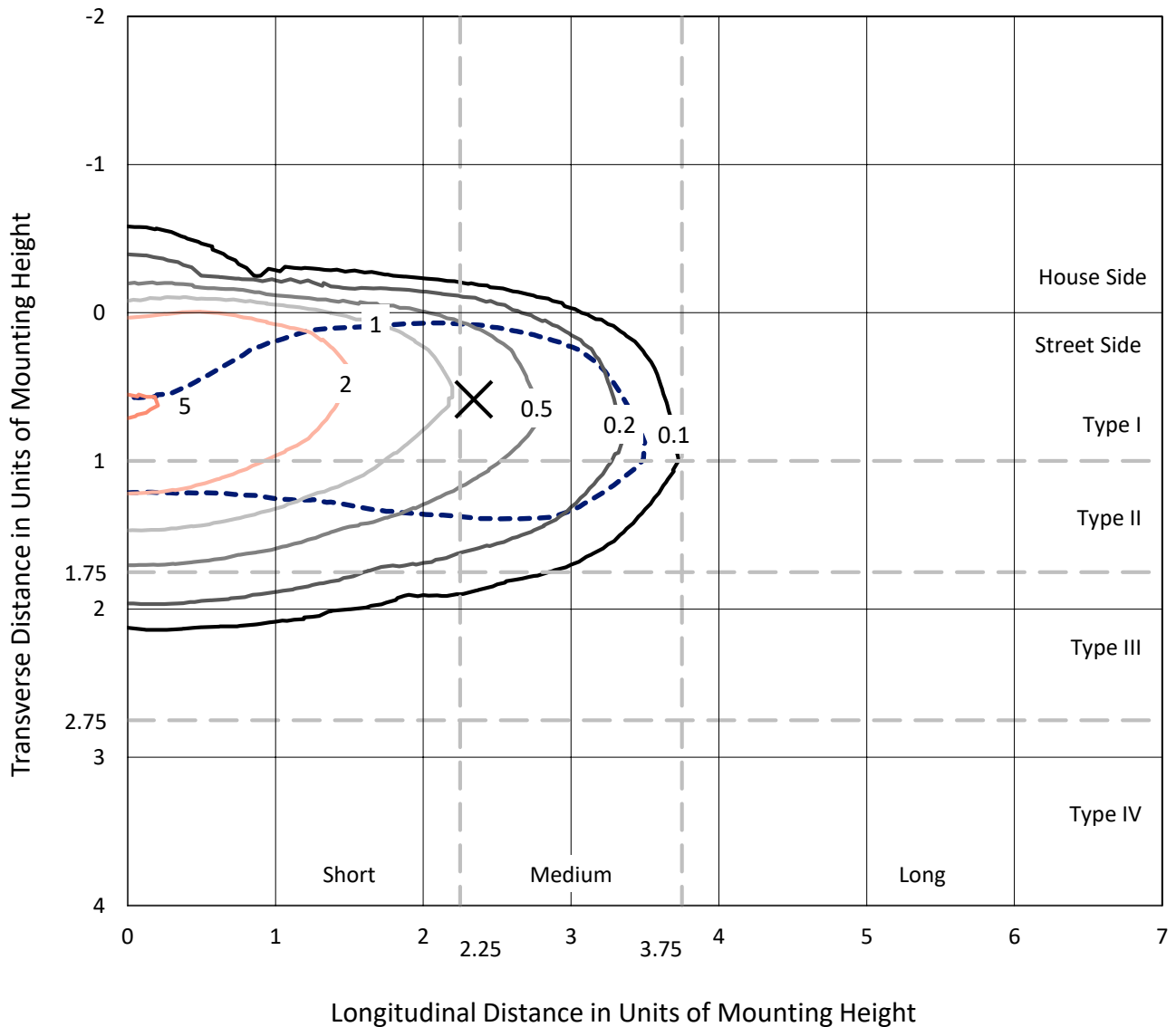
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

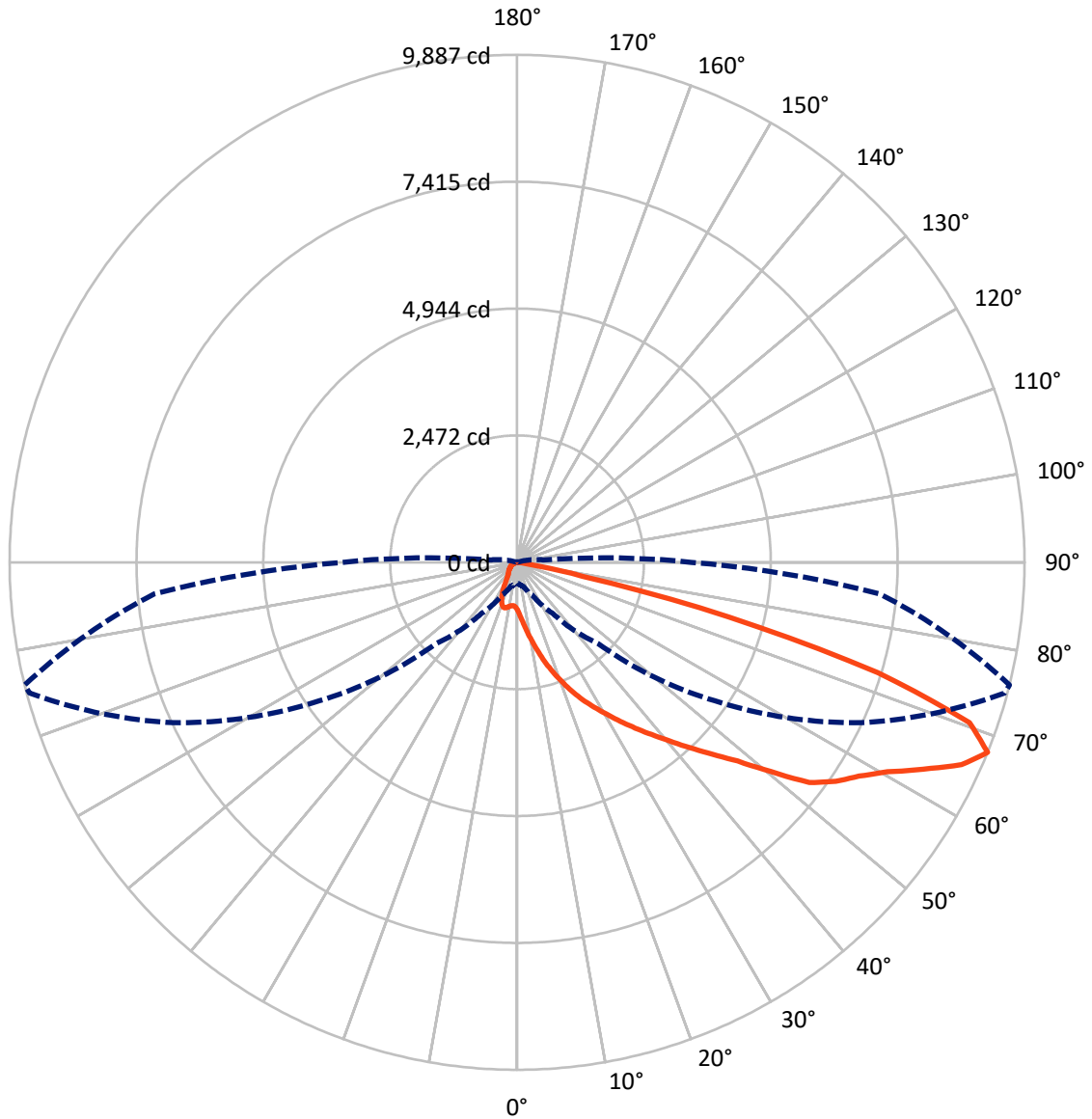
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	540.3	0.0	540.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10341.1	0.0	10341.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	10881.4	0.0	10881.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.1
10°-20°	455.0	4.2
20°-30°	925.8	8.5
30°-40°	1606.9	14.8
40°-50°	2270.3	20.9
50°-60°	2574.6	23.7
60°-70°	2135.4	19.6
70°-80°	773.5	7.1
80°-90°	25.1	0.2
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°	10881.4	100.0
0°-180°	10881.4	100.0

Coefficient of Utilization



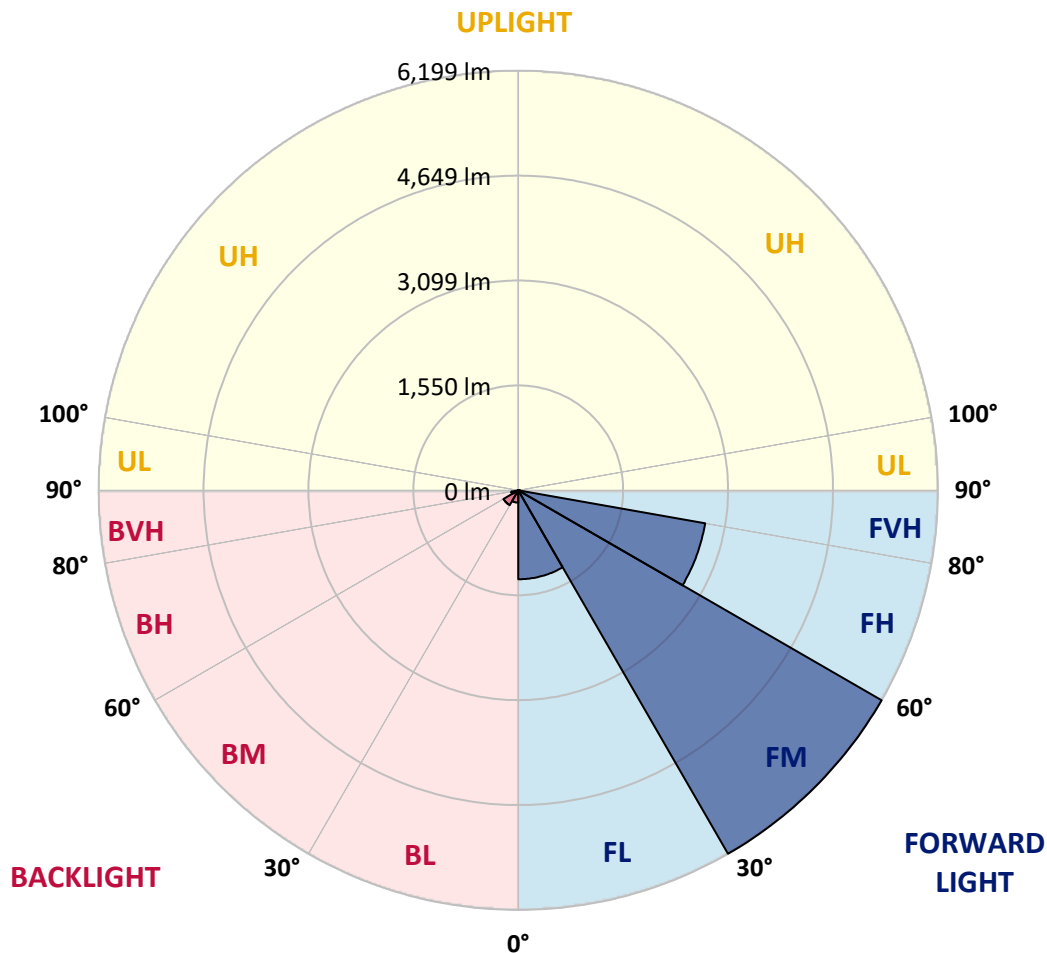
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.4	12.1			
FM (30°-60°)	6198.9	57.0			
FH (60°-80°)	2804.5	25.8			G2/5000
FVH (80°-90°)	24.3	0.2			G1/100
BL (0°-30°)	182.2	1.7	B1/500		
BM (30°-60°)	252.9	2.3	B1/1000		
BH (60°-80°)	104.4	1.0	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	1377.9	1346.9	1354.1	1334.1	1297.8	1223.4	1160.1	1100.0	1029.8	1027.5	969.7
5°	1858.1	1831.8	1828.4	1787.9	1722.2	1595.8	1472.8	1332.6	1176.3	1164.8	1042.2
7.5°	2293.8	2272.9	2265.2	2217.1	2094.5	1971.5	1811.3	1605.3	1360.7	1339.8	1140.0
10°	2628.5	2618.5	2620.4	2586.1	2481.2	2366.8	2156.5	1893.8	1570.0	1537.6	1257.3
12.5°	2882.2	2884.5	2901.7	2880.7	2822.1	2737.3	2512.7	2201.3	1801.8	1757.5	1391.3
15°	3068.6	3080.5	3112.0	3138.2	3133.9	3060.5	2854.5	2513.6	2047.8	1998.7	1540.5
17.5°	3189.2	3202.6	3248.3	3306.5	3359.9	3342.8	3184.5	2815.0	2296.6	2239.9	1700.3
20°	3295.1	3310.8	3359.9	3436.7	3536.3	3557.8	3453.8	3107.2	2545.1	2476.0	1865.1
22.5°	3524.4	3524.0	3553.9	3598.8	3693.7	3749.0	3683.2	3378.5	2790.6	2718.6	2033.5
25°	3939.2	3923.5	3913.0	3877.7	3898.7	3933.0	3896.3	3632.2	3037.6	2964.7	2204.2
27.5°	4432.2	4441.7	4356.8	4262.0	4188.6	4153.3	4093.2	3867.2	3275.0	3194.9	2371.1
30°	4952.4	4955.3	4855.1	4734.0	4572.4	4438.4	4334.5	4091.8	3519.2	3431.9	2533.2
32.5°	5421.5	5403.0	5303.8	5138.8	4934.8	4784.1	4568.1	4342.6	3777.6	3693.2	2713.4
35°	5793.4	5771.5	5650.9	5500.7	5289.0	5137.4	4877.5	4592.9	4049.3	3966.9	2894.1
37.5°	6065.2	6039.4	5915.5	5761.0	5578.4	5490.2	5236.5	4865.1	4345.9	4257.3	3084.4
40°	6159.6	6137.2	6059.4	5946.4	5799.6	5779.6	5617.5	5178.4	4668.7	4574.3	3299.8
42.5°	6103.3	6081.4	6053.8	6015.7	5954.5	5973.6	5977.0	5535.5	5027.2	4934.2	3537.7
45°	5880.2	5860.6	5889.2	5945.0	6020.9	6115.2	6305.0	5919.3	5427.8	5328.5	3812.8
47.5°	5551.7	5537.4	5616.6	5755.8	5977.5	6237.8	6605.0	6322.7	5877.3	5785.3	4156.2
50°	5084.5	5082.1	5240.3	5494.5	5835.4	6296.9	6914.9	6781.3	6501.9	6405.1	4633.4
52.5°	4356.8	4361.6	4673.0	5079.7	5586.0	6256.8	7114.1	7370.7	7228.5	7127.9	5046.8
55°	3664.1	3692.7	3913.4	4499.9	5203.6	6108.1	7182.8	7645.8	7629.6	7534.2	5276.6
57.5°	2985.6	3037.6	3250.3	3798.1	4645.3	5765.3	7145.2	7764.9	7928.0	7855.1	5579.9
60°	2250.4	2274.3	2519.4	3031.4	3928.7	5139.7	6871.9	7829.8	8336.1	8285.6	6019.9
62.5°	1431.8	1491.4	1708.8	2202.7	3059.0	4271.1	6411.4	7828.8	8846.8	8874.4	6587.7
65°	754.3	823.9	939.3	1365.0	2102.1	3300.8	5718.6	7755.4	9473.3	9511.8	7031.6
67.5°	406.7	426.7	487.8	708.5	1219.1	2236.1	4700.7	7393.0	9836.1	9887.1	7093.6
70°	297.5	308.4	331.4	391.9	613.6	1298.8	3430.0	6571.5	9368.4	9349.3	6302.7
72.5°	228.4	245.6	262.7	287.0	352.8	693.3	2135.6	5146.0	7475.0	7349.2	4711.1
75°	180.3	183.0	207.4	229.3	264.7	394.8	948.3	2997.1	4562.3	4264.3	2443.1
77.5°	144.0	145.9	160.2	179.2	212.7	259.3	293.7	1179.1	1456.6	1299.7	530.1
80°	85.3	90.1	119.2	138.2	176.4	163.6	107.3	256.0	227.4	206.0	89.1
82.5°	47.7	51.5	67.3	109.2	123.1	78.2	53.4	69.1	53.4	52.0	25.2
85°	0.0	2.4	43.4	67.7	50.0	17.1	22.5	22.9	15.7	14.8	10.0
87.5°	0.0	0.0	13.3	12.9	1.9	2.9	5.2	7.6	6.2	6.2	5.2
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°	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1	923.1
2.5°	941.1	915.4	866.8	819.1	779.1	746.2	716.6	704.7	695.1	693.7	686.1
5°	983.2	931.2	838.2	761.9	710.9	674.6	643.7	624.6	609.8	604.1	598.8
7.5°	1046.5	967.9	834.4	746.6	685.6	624.6	567.4	505.4	466.8	452.0	443.4
10°	1123.8	1016.5	848.6	742.4	635.6	506.9	411.9	333.3	301.4	290.8	287.9
12.5°	1213.9	1077.1	873.5	715.6	528.7	359.9	284.1	257.5	250.3	247.0	247.0
15°	1317.4	1143.3	891.1	638.4	391.0	272.3	246.0	233.6	226.0	221.7	222.2
17.5°	1423.2	1208.2	882.5	526.4	288.5	242.2	222.6	209.3	198.8	194.5	193.6
20°	1530.0	1268.2	834.9	391.9	244.2	219.8	197.9	183.0	172.6	168.3	167.3
22.5°	1640.6	1319.3	750.9	287.5	219.3	195.0	173.5	158.7	148.8	144.9	143.0
25°	1748.4	1360.7	633.6	232.7	196.0	171.7	151.1	137.3	128.3	124.5	124.0
27.5°	1848.9	1387.0	497.7	205.5	175.5	150.6	132.1	119.7	112.1	109.2	108.7
30°	1939.6	1389.3	368.1	185.5	157.3	132.6	115.4	104.4	97.7	94.9	93.9
32.5°	2031.1	1369.4	267.9	167.3	140.7	116.8	100.1	91.6	86.8	84.4	84.4
35°	2117.4	1323.1	208.9	151.7	124.5	101.5	88.2	82.0	79.2	76.8	76.8
37.5°	2201.8	1256.8	177.4	137.8	109.2	88.7	77.7	73.9	71.5	69.1	69.1
40°	2287.6	1173.4	161.2	124.9	96.8	78.7	69.1	65.8	63.4	61.5	61.0
42.5°	2393.0	1077.1	150.6	113.0	85.8	69.6	61.0	57.2	55.3	53.4	52.4
45°	2515.1	994.1	142.1	101.1	76.8	61.9	52.9	49.1	46.2	43.9	43.4
47.5°	2691.0	934.1	130.6	88.2	68.2	53.8	45.7	41.5	37.2	34.8	34.4
50°	2915.6	884.4	115.9	76.8	59.6	45.7	38.1	32.9	29.1	26.7	26.7
52.5°	3027.2	819.6	102.5	66.8	50.0	38.7	31.0	24.8	22.9	20.5	20.5
55°	3072.0	770.0	89.1	56.7	41.5	32.0	24.3	19.1	17.6	16.2	15.7
57.5°	3197.8	755.7	77.7	48.2	34.4	25.2	18.6	14.3	13.3	11.5	11.5
60°	3400.4	762.8	67.3	41.0	27.7	19.6	13.8	11.0	10.0	8.1	8.1
62.5°	3619.2	753.8	56.7	35.3	21.4	14.3	9.5	8.1	8.1	4.8	4.3
65°	3661.3	671.3	48.6	29.1	16.7	10.5	6.2	5.2	7.2	0.9	0.0
67.5°	3398.1	520.6	41.9	22.5	12.4	8.1	4.8	2.4	6.2	0.0	0.0
70°	2717.2	330.9	33.8	16.2	9.5	6.7	3.8	0.9	4.8	0.0	0.0
72.5°	1921.4	192.2	26.7	11.5	8.1	5.2	2.9	0.0	2.9	0.0	0.0
75°	971.7	102.5	16.7	8.6	6.2	3.8	1.9	0.0	0.5	0.0	0.0
77.5°	210.3	47.7	10.5	6.2	4.3	2.4	0.9	0.0	0.0	0.0	0.0
80°	45.7	21.0	6.7	3.8	2.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	11.0	3.4	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	5.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.9	0.5	0.5	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)