

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: P455781

Luminaire Tested: **GLAN-SA7A-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455781
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: STREETWORKS
Catalog Number: GLAN-SA7A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 20856 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

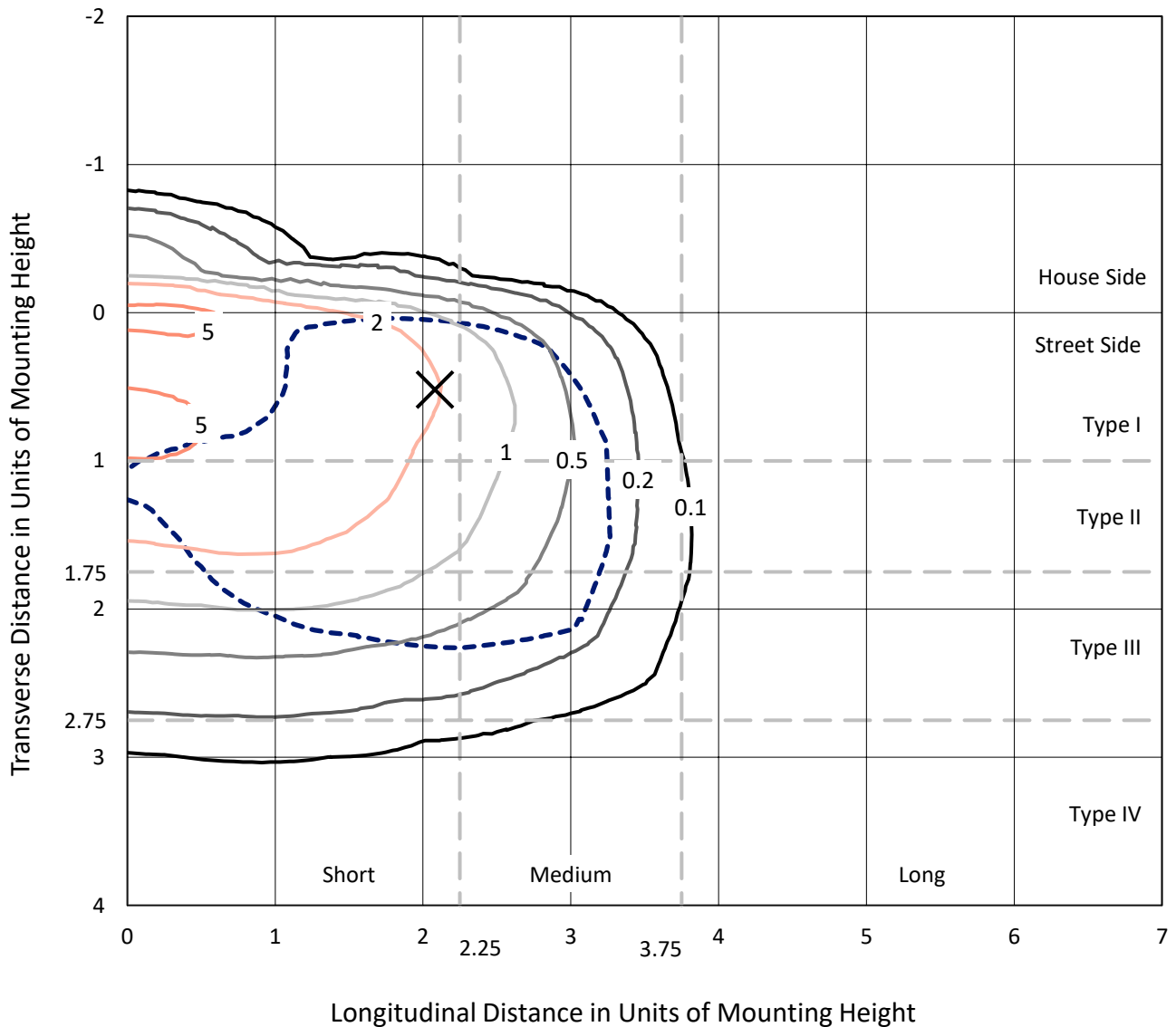
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

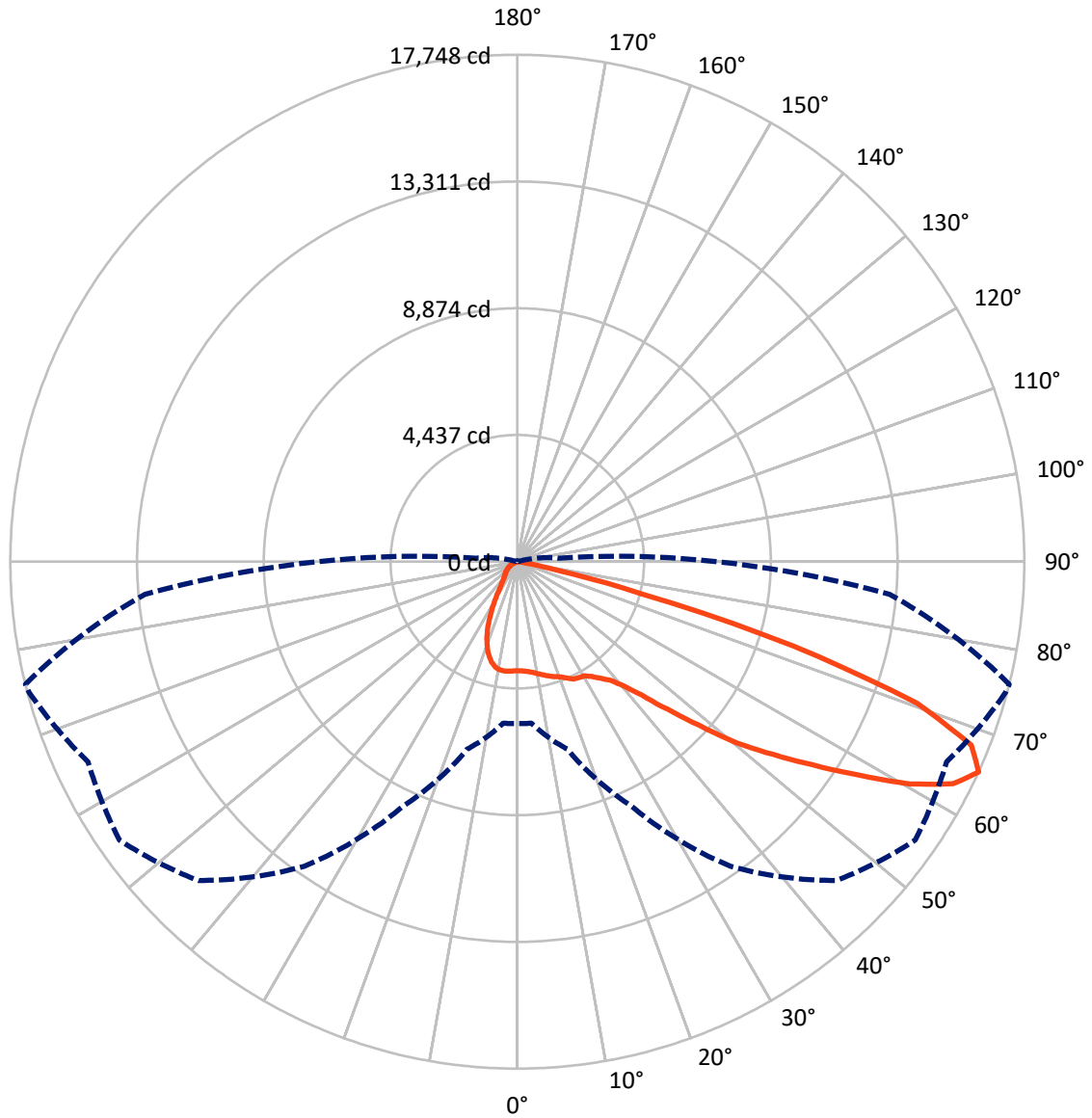
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1506.2	0.0	1506.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19349.8	0.0	19349.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	20856.0	0.0	20856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.5
10°-20°	699.8	3.4
20°-30°	1127.6	5.4
30°-40°	1960.7	9.4
40°-50°	3239.9	15.5
50°-60°	5005.0	24.0
60°-70°	6111.8	29.3
70°-80°	2319.6	11.1
80°-90°	77.4	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°	20856.0	100.0
0°-180°	20856.0	100.0

Coefficient of Utilization



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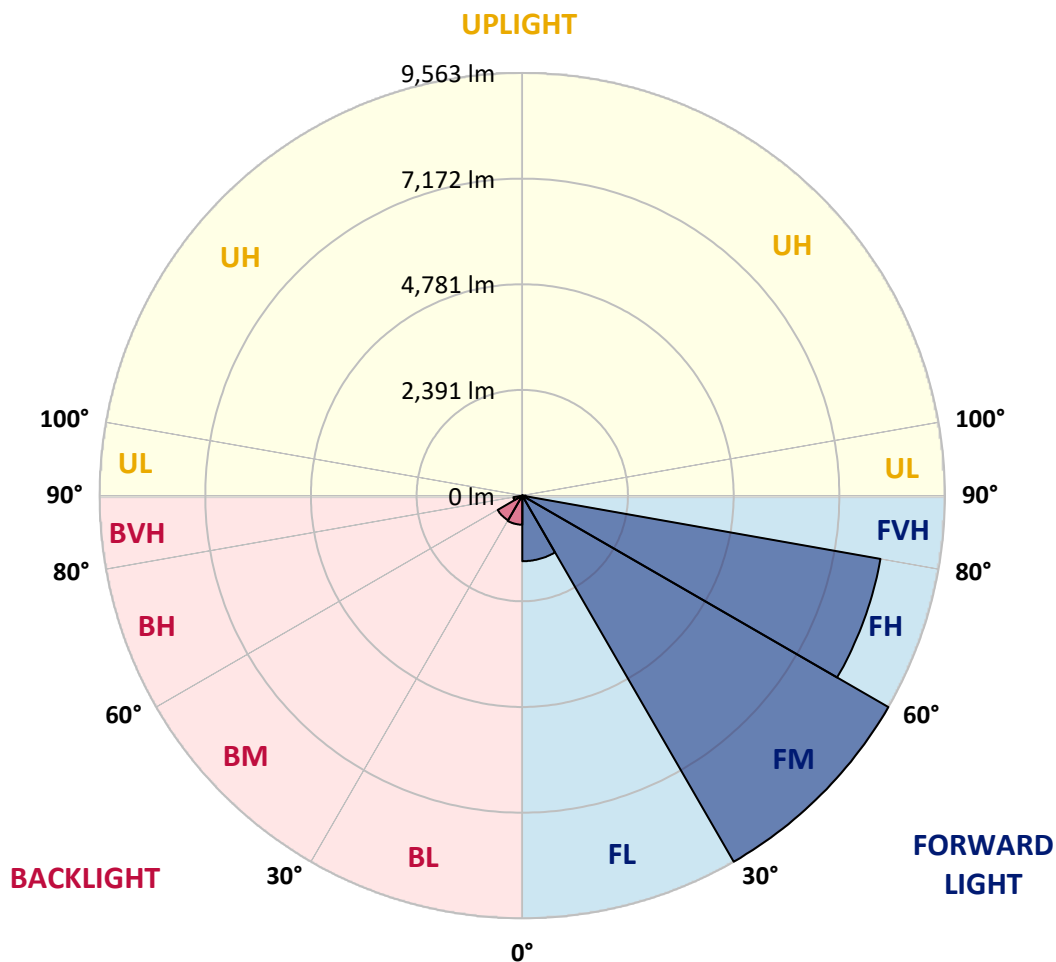
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1483.7	7.1			
FM	(30°-60°)	9562.8	45.9			
FH	(60°-80°)	8227.0	39.4			G4/12000
FVH	(80°-90°)	76.3	0.4			G1/100
BL	(0°-30°)	658.0	3.2	B2/1000		
BM	(30°-60°)	642.7	3.1	B1/1000		
BH	(60°-80°)	204.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2
2.5°	3645.9	3647.4	3656.2	3678.3	3712.2	3740.1	3763.7	3802.0	3828.5	3831.4	3840.3
5°	3394.1	3376.4	3394.1	3451.5	3503.1	3581.1	3676.8	3772.5	3857.9	3863.8	3905.1
7.5°	3111.4	3126.1	3154.1	3213.0	3310.2	3429.4	3567.8	3738.7	3900.6	3915.4	3996.3
10°	2824.2	2856.6	2902.3	2992.1	3127.6	3282.2	3470.7	3715.1	3968.4	3989.0	4128.9
12.5°	2559.2	2573.9	2629.9	2750.6	2918.5	3136.4	3397.0	3701.8	4043.5	4068.5	4270.2
15°	2356.0	2375.1	2423.7	2532.7	2719.7	2999.5	3336.7	3697.4	4117.1	4152.4	4411.6
17.5°	2317.7	2329.5	2350.1	2423.7	2587.2	2890.5	3282.2	3696.0	4187.8	4230.5	4542.6
20°	2475.3	2465.0	2444.3	2437.0	2526.8	2806.6	3242.4	3707.7	4255.5	4304.1	4681.1
22.5°	2869.9	2883.1	2762.4	2619.6	2590.1	2793.3	3236.5	3763.7	4363.0	4420.4	4835.7
25°	3707.7	3606.1	3417.7	3076.0	2818.4	2874.3	3302.8	3896.2	4488.2	4551.5	4975.6
27.5°	4633.9	4603.0	4310.0	3747.5	3267.5	3045.1	3420.6	3997.8	4529.4	4594.2	5055.1
30°	5543.9	5580.7	5245.0	4623.6	3919.8	3361.7	3531.0	4036.1	4566.2	4633.9	5156.7
32.5°	6387.7	6431.8	6137.3	5521.8	4688.4	3909.5	3721.0	4184.8	4720.8	4790.0	5326.0
35°	7051.8	7057.7	6835.3	6345.0	5527.7	4575.0	4131.8	4445.5	4929.9	5010.9	5505.6
37.5°	7661.4	7652.5	7391.9	6969.3	6227.2	5236.2	4648.7	4745.8	5168.4	5252.4	5764.8
40°	8113.4	8119.3	8035.4	7637.8	6879.5	5847.3	5058.0	5027.1	5569.0	5700.0	6141.8
42.5°	8415.3	8469.8	8511.0	8309.3	7699.7	6599.7	5686.8	5629.3	6264.0	6372.9	6674.8
45°	8659.7	8756.9	8963.1	8952.8	8487.4	7523.0	6549.6	6431.8	7249.1	7365.4	7353.6
47.5°	8837.9	8936.6	9278.2	9484.3	9228.1	8418.2	7634.9	7533.3	8425.6	8552.2	8103.1
50°	8929.2	9047.0	9482.9	9881.9	9806.8	9281.1	8871.8	8877.7	9846.6	9968.8	8971.9
52.5°	8715.7	8868.8	9591.8	10310.4	10456.2	10107.2	10030.6	10225.0	11111.4	11216.0	9756.7
55°	8033.9	8226.8	9443.1	10675.6	11208.6	11082.0	11347.0	11643.0	12494.1	12561.8	10562.2
57.5°	7602.5	7807.2	9004.3	10986.3	12112.7	12307.1	12726.8	12943.2	13920.9	14093.2	11486.9
60°	7238.8	7399.3	8643.5	11052.5	13031.6	13806.1	14214.0	14437.8	15682.0	15794.0	12504.4
62.5°	6633.6	6817.6	8033.9	10590.2	13493.9	15006.2	15851.4	15751.3	17044.1	17122.1	13128.7
65°	5660.3	5676.5	6797.0	9428.4	13016.8	15785.1	17001.4	16581.7	17694.9	17748.0	13080.2
67.5°	4224.6	4380.7	5228.8	7411.1	10995.1	15119.6	17373.9	16603.8	17284.1	17136.9	12042.0
70°	2721.2	2840.4	3544.3	5139.0	7927.9	12617.8	16138.5	15465.6	15169.6	14842.7	9856.9
72.5°	1256.0	1409.2	2105.7	2936.2	4701.7	8988.1	13100.8	12564.8	10918.5	10111.6	6265.5
75°	547.8	586.1	1039.6	1549.1	2204.3	4753.2	8637.6	7799.8	4931.4	4504.4	2507.7
77.5°	334.3	359.3	544.8	830.5	865.8	1811.2	4653.1	3402.9	1524.0	1344.4	680.3
80°	226.8	254.7	396.1	434.4	296.0	505.1	1746.4	908.5	307.8	294.5	145.8
82.5°	110.4	139.9	293.0	243.0	128.1	162.0	508.0	194.4	89.8	83.9	51.5
85°	16.2	28.0	164.9	159.0	57.4	38.3	89.8	48.6	30.9	29.4	23.6
87.5°	0.0	0.0	56.0	25.0	5.9	5.9	10.3	10.3	11.8	10.3	11.8
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°	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2	3815.2
2.5°	3844.7	3852.0	3824.1	3784.3	3741.6	3698.9	3638.5	3584.0	3551.7	3570.8	3523.7
5°	3913.9	3908.0	3834.4	3713.6	3553.1	3360.2	3168.8	3005.4	2952.3	2872.8	2864.0
7.5°	4009.6	3993.4	3837.3	3560.5	3198.3	2836.0	2482.6	2248.5	2114.5	2001.1	2004.1
10°	4143.6	4096.5	3803.4	3291.0	2694.7	2148.4	1697.8	1388.6	1254.6	1211.9	1178.0
12.5°	4282.0	4190.7	3709.2	2927.3	2098.3	1468.1	1032.2	843.7	761.3	734.8	731.8
15°	4405.7	4261.4	3544.3	2490.0	1525.5	938.0	703.9	642.0	631.7	633.2	631.7
17.5°	4527.9	4317.3	3316.1	2026.1	1036.6	672.9	605.2	590.5	594.9	600.8	599.3
20°	4629.5	4329.1	3024.5	1546.1	733.3	590.5	568.4	565.4	569.9	574.3	574.3
22.5°	4740.0	4338.0	2678.5	1070.5	599.3	549.2	537.5	537.5	543.3	549.2	550.7
25°	4822.4	4289.4	2264.7	768.6	528.6	509.5	503.6	505.1	511.0	513.9	512.4
27.5°	4835.7	4152.4	1825.9	589.0	480.0	460.9	455.0	460.9	453.5	457.9	455.0
30°	4847.4	3978.7	1381.2	496.2	435.9	406.4	397.6	388.7	382.8	375.5	374.0
32.5°	4884.3	3774.0	1008.7	446.2	394.6	362.2	341.6	316.6	297.4	291.6	290.1
35°	4900.5	3528.1	740.7	406.4	357.8	322.5	285.7	250.3	222.3	212.0	219.4
37.5°	4962.3	3289.5	574.3	377.0	325.4	281.2	234.1	190.0	163.4	157.6	160.5
40°	5088.9	3030.4	481.5	351.9	297.4	243.0	185.5	142.8	125.2	119.3	117.8
42.5°	5292.1	2772.7	428.5	328.4	269.5	204.7	145.8	111.9	97.2	92.8	92.8
45°	5539.5	2525.3	391.7	303.3	240.0	164.9	114.9	89.8	81.0	78.0	78.0
47.5°	5864.9	2308.9	360.8	278.3	207.6	131.1	92.8	78.0	72.2	73.6	75.1
50°	6194.8	2148.4	326.9	250.3	170.8	107.5	79.5	69.2	67.7	69.2	69.2
52.5°	6443.6	2054.1	281.2	212.0	134.0	89.8	70.7	64.8	63.3	60.4	60.4
55°	6779.4	2033.5	223.8	172.3	106.0	75.1	63.3	58.9	54.5	51.5	50.1
57.5°	7210.8	2057.1	172.3	134.0	82.5	61.8	56.0	48.6	42.7	36.8	36.8
60°	7478.8	2004.1	134.0	103.1	60.4	50.1	42.7	35.3	28.0	23.6	22.1
62.5°	7393.4	1780.2	106.0	76.6	42.7	36.8	28.0	23.6	16.2	11.8	10.3
65°	6953.1	1437.2	85.4	53.0	30.9	22.1	14.7	14.7	7.4	1.5	0.0
67.5°	6085.8	1064.6	67.7	35.3	17.7	10.3	7.4	4.4	0.0	0.0	0.0
70°	4953.5	768.6	53.0	22.1	10.3	7.4	2.9	1.5	0.0	0.0	0.0
72.5°	3145.2	440.3	41.2	13.3	7.4	2.9	0.0	0.0	0.0	0.0	0.0
75°	1216.3	172.3	28.0	8.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	344.6	81.0	16.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.8	35.3	8.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.7	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	1.5	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)