

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: P322241

Luminaire Tested: **GAN-SA7B-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29456 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

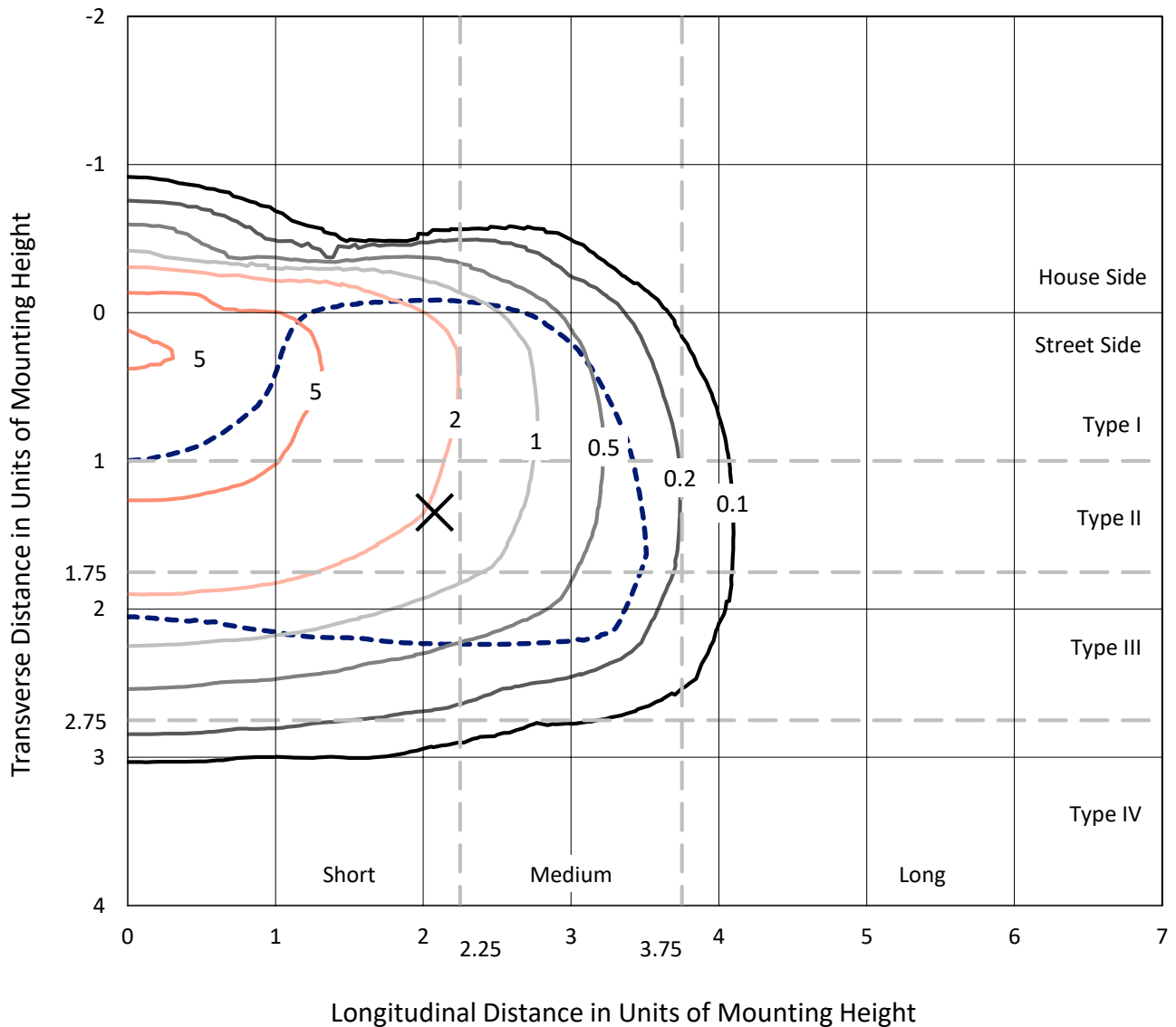
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

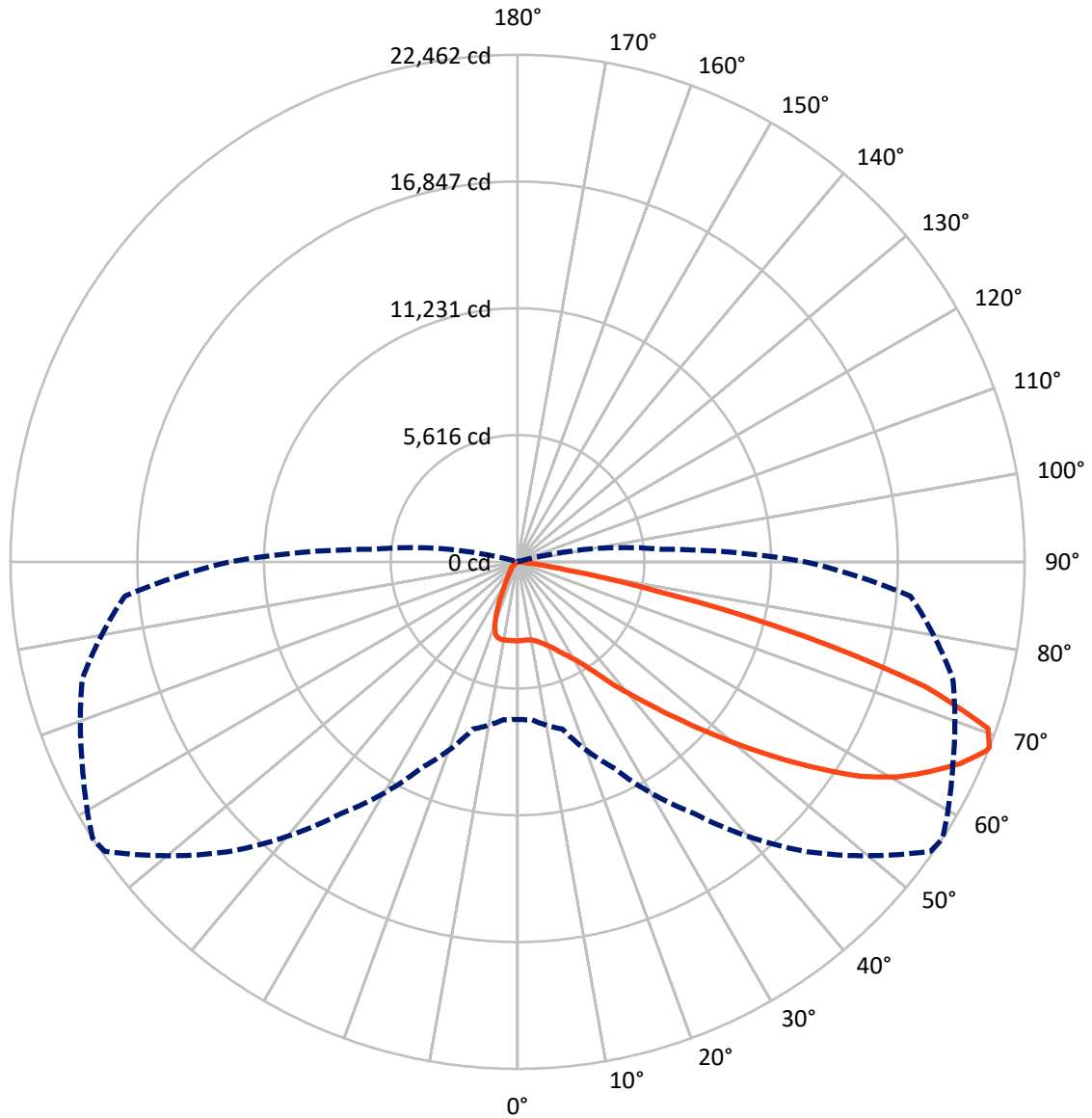
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3230.0	0.0	3230.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	26226.0	0.0	26226.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	29456.0	0.0	29456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	1.1
10°-20°	907.7	3.1
20°-30°	1565.9	5.3
30°-40°	2702.6	9.2
40°-50°	4622.9	15.7
50°-60°	7396.2	25.1
60°-70°	8545.5	29.0
70°-80°	3265.3	11.1
80°-90°	122.4	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°	29456.0	100.0
0°-180°	29456.0	100.0

Coefficient of Utilization

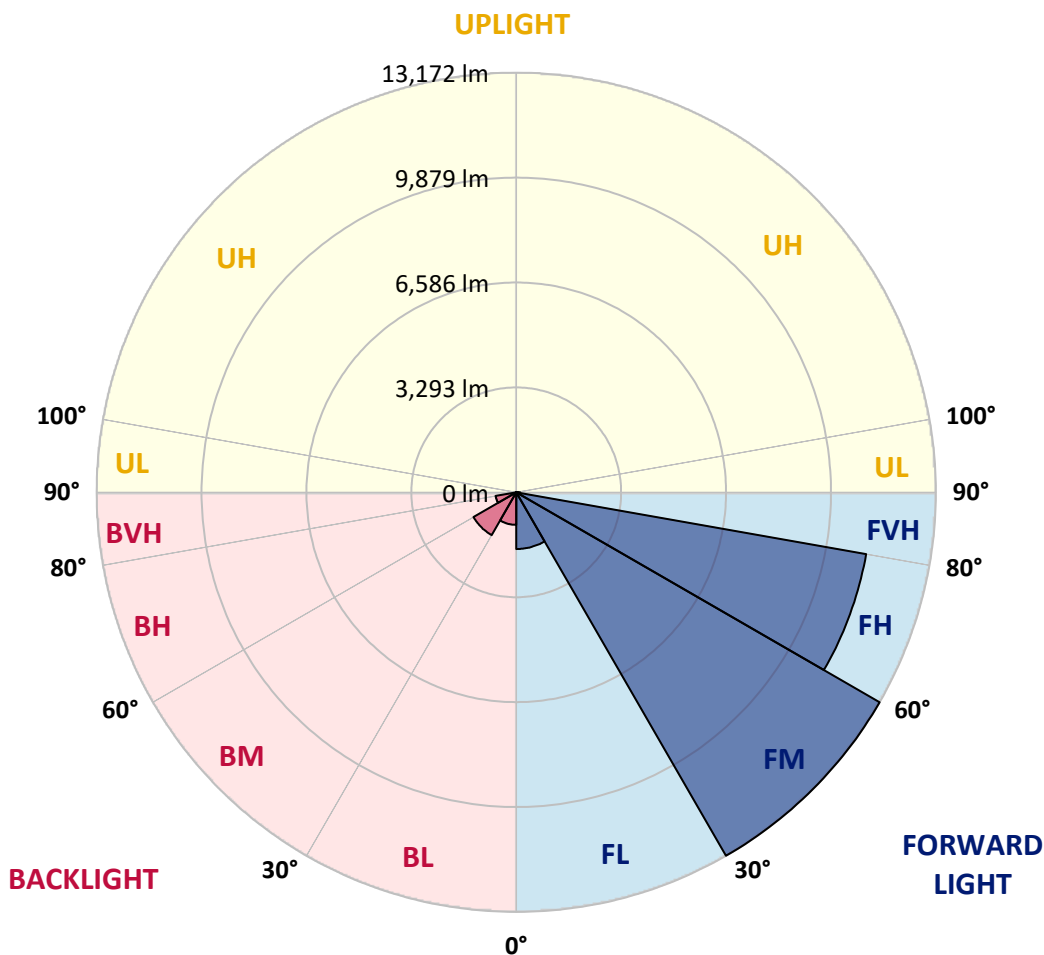


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.3	6.0			
FM (30°-60°)	13172.5	44.7			
FH (60°-80°)	11153.0	37.9			G4/12000
FVH (80°-90°)	120.2	0.4			G2/225
BL (0°-30°)	1020.8	3.5	B3/2500		
BM (30°-60°)	1549.2	5.3	B2/2500		
BH (60°-80°)	657.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.2	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1
2.5°	3418.0	3433.3	3444.4	3451.4	3459.8	3477.9	3483.4	3491.8	3496.0	3496.0	3505.7
5°	3282.9	3299.6	3323.3	3342.8	3381.8	3431.9	3468.1	3482.0	3507.1	3529.4	3541.9
7.5°	3157.5	3177.0	3204.9	3250.8	3317.7	3398.5	3473.7	3493.2	3541.9	3589.3	3613.0
10°	3076.7	3092.1	3128.3	3193.7	3281.5	3394.3	3500.1	3523.8	3607.4	3686.8	3731.4
12.5°	3048.9	3062.8	3100.4	3174.2	3282.9	3415.2	3561.4	3596.3	3718.8	3834.4	3897.1
15°	3089.3	3092.1	3132.4	3202.1	3309.3	3466.7	3663.1	3704.9	3859.5	4009.9	4087.9
17.5°	3245.3	3232.7	3253.6	3284.3	3369.2	3535.0	3770.4	3833.0	4039.2	4216.1	4289.9
20°	3635.3	3635.3	3587.9	3504.3	3505.7	3640.8	3915.2	3986.2	4238.3	4443.1	4509.9
22.5°	4302.4	4289.9	4195.2	3990.4	3802.4	3823.3	4092.1	4184.0	4477.9	4696.6	4718.9
25°	5104.7	5089.4	4943.1	4654.8	4328.9	4118.6	4331.7	4437.5	4763.4	4957.0	4911.1
27.5°	5954.3	5941.8	5796.9	5439.0	4975.1	4589.3	4617.2	4717.5	5054.5	5245.3	5099.1
30°	6777.4	6781.6	6638.2	6270.5	5745.4	5189.6	4979.3	5037.8	5337.3	5530.9	5322.0
32.5°	7560.2	7565.8	7441.8	7030.9	6540.7	5887.4	5480.7	5465.4	5666.0	5856.8	5617.2
35°	8258.0	8271.9	8187.0	7868.0	7348.5	6664.6	6131.2	6095.0	6132.6	6348.5	6069.9
37.5°	8930.7	8939.1	8875.0	8606.2	8171.7	7518.4	6952.9	6901.4	6820.6	6986.4	6667.4
40°	9667.5	9646.7	9572.8	9329.1	8955.8	8461.4	7836.0	7746.8	7606.2	7753.8	7453.0
42.5°	10352.8	10329.1	10341.7	10065.9	9751.1	9430.8	8865.3	8712.1	8629.9	8799.8	8416.8
45°	11209.4	11196.9	11238.6	10999.1	10744.2	10511.6	10045.0	9877.9	9841.6	10040.8	9582.6
47.5°	12054.8	12085.5	12215.0	12113.3	12010.3	11805.5	11294.4	11219.1	11241.4	11482.4	10812.4
50°	12759.6	12795.8	13151.0	13268.0	13417.0	13297.2	12784.7	12738.7	12826.5	13043.7	12135.6
52.5°	13269.4	13343.2	13784.7	14323.7	14866.9	14947.7	14436.5	14394.8	14513.2	14546.6	13157.9
55°	13623.1	13688.6	14188.6	15174.7	16280.6	16628.8	16311.3	16149.7	16127.4	15797.3	14233.2
57.5°	13685.8	13678.9	14397.6	15724.9	17389.3	18287.7	18087.1	17928.3	17471.5	16953.4	15465.8
60°	13332.0	13372.4	14206.7	15915.7	18085.7	19542.6	19557.9	19351.8	18640.1	18077.4	16660.9
62.5°	12242.9	12407.2	13249.9	15415.7	18077.4	20048.2	20636.0	20478.6	19627.6	18998.0	17872.6
65°	10476.8	10535.3	11338.9	13702.5	16855.9	19836.5	21606.8	21548.3	20517.6	19892.2	18495.2
67.5°	7650.7	7524.0	8368.0	10790.2	14270.8	18602.5	22303.2	22377.0	21204.2	20076.1	17832.2
68°	6982.2	7019.8	7677.2	10070.1	13593.9	18166.5	22349.1	22462.0	21272.5	19956.3	17470.1
70°	4161.7	4234.2	4820.5	6933.4	10341.7	15699.8	21853.3	22111.0	20865.8	18720.9	15110.7
72.5°	1062.7	1149.1	1703.4	3103.2	5906.9	11061.8	18447.9	18883.8	18116.4	15187.3	10201.0
75°	437.3	459.6	608.7	1022.3	2200.7	4983.5	12159.3	13092.5	12559.0	9092.3	4610.2
77.5°	302.2	317.6	391.4	566.9	952.7	1689.5	5961.3	6635.4	5978.0	3103.2	1005.6
80°	217.3	229.8	280.0	377.5	547.4	603.1	1943.0	2246.6	1784.2	681.1	249.3
82.5°	129.5	139.3	208.9	268.8	332.9	288.3	483.3	548.8	516.7	338.5	111.4
85°	64.1	75.2	140.7	192.2	179.7	121.2	147.6	164.4	203.4	206.1	59.9
87.5°	4.2	8.4	82.2	115.6	50.1	27.9	43.2	52.9	72.4	101.7	25.1
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°	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1	3500.1
2.5°	3509.9	3511.3	3501.5	3497.4	3500.1	3483.4	3476.5	3479.3	3479.3	3483.4	3476.5
5°	3544.7	3544.7	3528.0	3505.7	3493.2	3461.2	3440.3	3434.7	3430.5	3427.7	3422.2
7.5°	3619.9	3611.6	3582.3	3533.6	3491.8	3422.2	3369.2	3341.4	3327.4	3321.9	3317.7
10°	3741.1	3725.8	3677.0	3586.5	3490.4	3366.4	3250.8	3168.7	3100.4	3072.6	3055.8
12.5°	3904.1	3881.8	3799.6	3649.2	3480.6	3252.2	3001.5	2760.6	2536.3	2444.4	2398.4
15°	4092.1	4060.1	3930.5	3702.1	3423.5	2994.6	2450.0	2027.9	1717.3	1600.3	1550.2
17.5°	4282.9	4241.1	4044.7	3735.5	3252.2	2461.1	1718.7	1298.1	1090.6	1034.9	1015.4
20°	4475.1	4413.8	4143.6	3710.5	2865.0	1774.4	1133.8	948.5	888.6	871.9	866.3
22.5°	4657.6	4562.9	4232.8	3613.0	2268.9	1190.9	897.0	838.5	819.0	809.2	806.4
25°	4816.4	4684.0	4310.8	3312.1	1605.9	899.8	807.8	788.3	763.3	745.2	746.5
27.5°	4965.4	4805.2	4358.1	2816.3	1071.1	768.8	747.9	721.5	675.5	649.1	649.1
30°	5145.1	4966.8	4392.9	2167.2	788.3	679.7	663.0	622.6	559.9	525.1	525.1
32.5°	5415.3	5211.9	4370.7	1521.0	653.2	597.5	558.5	502.8	434.6	401.1	399.7
35°	5828.9	5590.8	4211.9	997.3	576.6	519.5	456.8	388.6	328.7	300.8	299.5
37.5°	6386.1	6097.8	3855.3	713.1	516.7	447.1	371.9	296.7	252.1	234.0	232.6
40°	7108.9	6686.9	3345.5	578.0	461.0	377.5	286.9	229.8	199.2	185.2	186.6
42.5°	7976.7	7317.9	2734.1	498.6	406.7	310.6	224.2	181.1	161.6	151.8	149.0
45°	8940.5	7940.5	2093.4	444.3	352.4	250.7	175.5	143.5	128.1	122.6	122.6
47.5°	10000.4	8546.3	1532.1	397.0	293.9	193.6	140.7	117.0	104.5	100.3	98.9
50°	10962.9	8967.0	1104.5	346.8	241.0	153.2	114.2	97.5	89.1	83.6	83.6
52.5°	11765.1	9099.3	813.4	292.5	195.0	122.6	94.7	83.6	75.2	71.0	71.0
55°	12471.3	9045.0	604.5	241.0	157.4	100.3	80.8	71.0	64.1	59.9	59.9
57.5°	13148.2	8869.5	451.3	196.4	126.7	80.8	68.2	59.9	52.9	50.1	50.1
60°	13701.1	8577.0	335.7	158.8	101.7	65.5	57.1	48.7	43.2	39.0	39.0
62.5°	14149.6	8253.8	246.5	130.9	80.8	51.5	44.6	40.4	32.0	27.9	27.9
65°	14152.4	7717.6	185.2	108.6	62.7	40.4	33.4	32.0	20.9	16.7	15.3
67.5°	13128.7	6653.5	142.1	93.3	48.7	30.6	25.1	26.5	11.1	7.0	5.6
68°	12756.8	6383.3	133.7	91.9	46.0	29.2	23.7	26.5	9.7	5.6	4.2
70°	10755.3	5078.2	107.2	89.1	40.4	22.3	19.5	26.5	8.4	4.2	2.8
72.5°	6879.1	2947.2	79.4	71.0	30.6	16.7	12.5	23.7	8.4	2.8	1.4
75°	2927.7	913.7	54.3	50.1	18.1	12.5	8.4	15.3	5.6	1.4	0.0
77.5°	617.0	206.1	32.0	30.6	12.5	8.4	5.6	4.2	1.4	0.0	0.0
80°	158.8	59.9	16.7	15.3	7.0	4.2	2.8	0.0	0.0	0.0	0.0
82.5°	50.1	23.7	9.7	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	13.9	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	4.2	1.4	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)