

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: P322242

Luminaire Tested: **GAN-SA8B-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322242
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-SA8B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33375 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 - G5

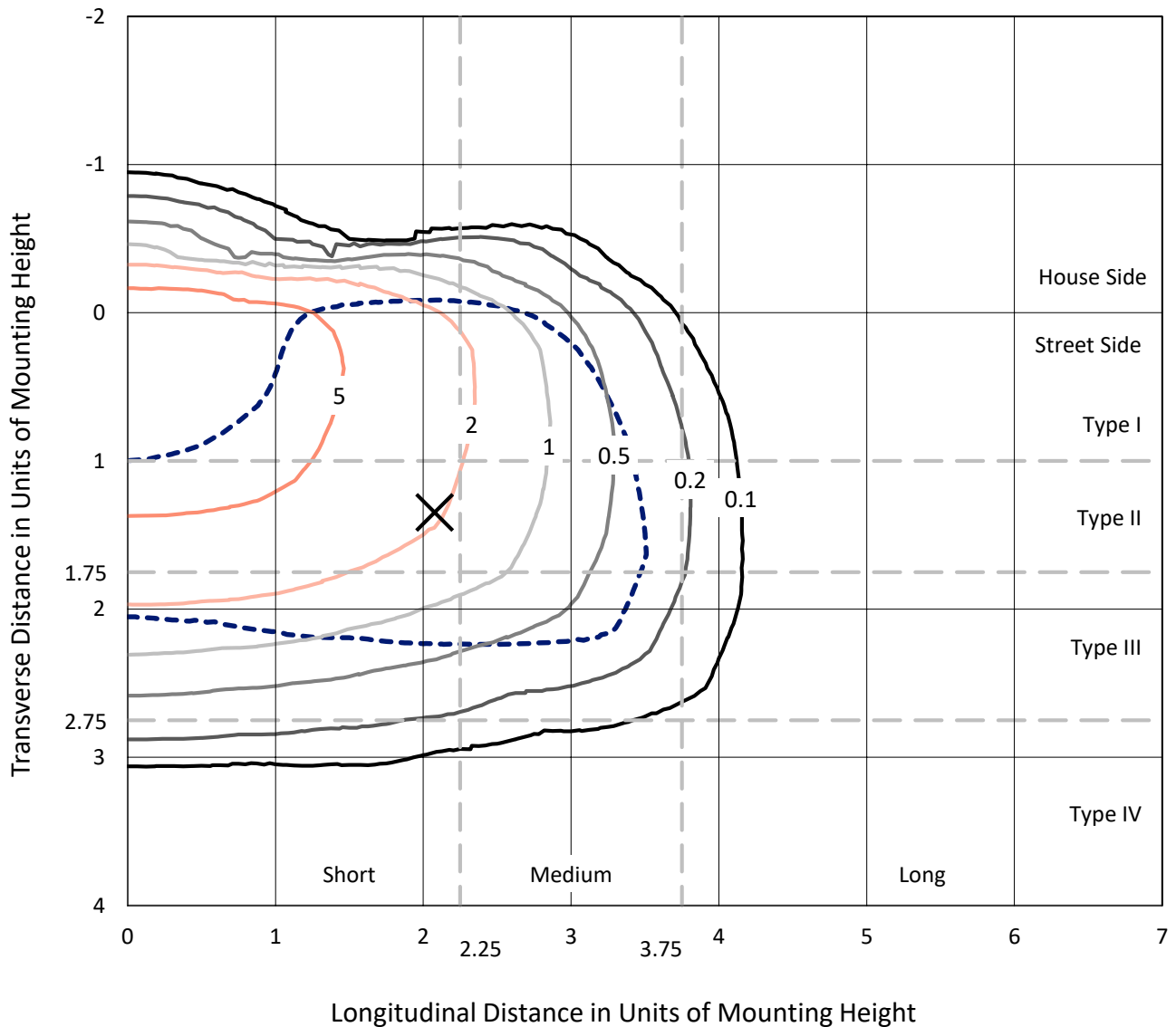
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

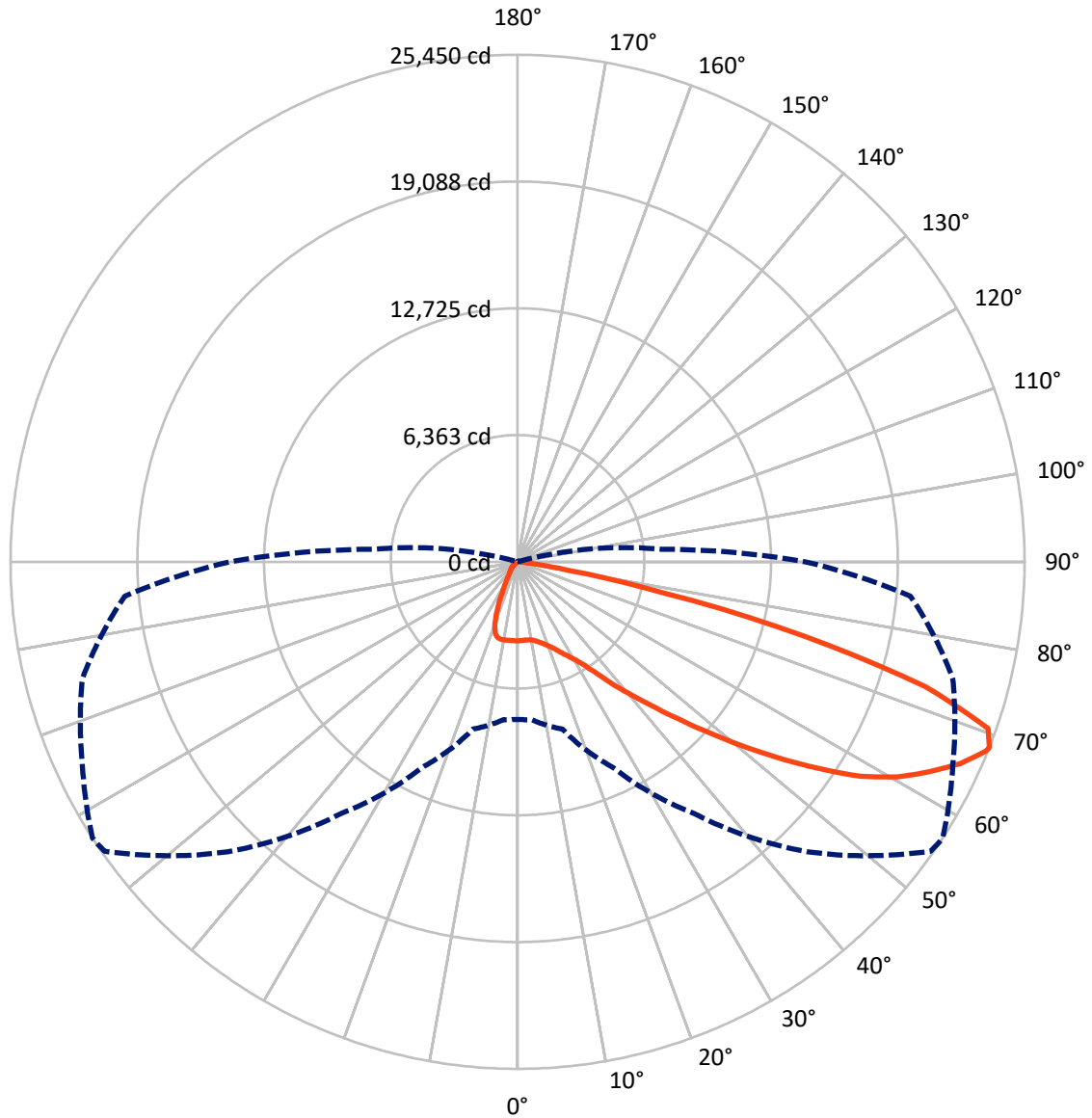
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3659.8	0.0	3659.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29715.2	0.0	29715.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	33375.0	0.0	33375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	1.1
10°-20°	1028.5	3.1
20°-30°	1774.2	5.3
30°-40°	3062.2	9.2
40°-50°	5237.9	15.7
50°-60°	8380.2	25.1
60°-70°	9682.4	29.0
70°-80°	3699.8	11.1
80°-90°	138.7	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°	33375.0	100.0
0°-180°	33375.0	100.0

Coefficient of Utilization



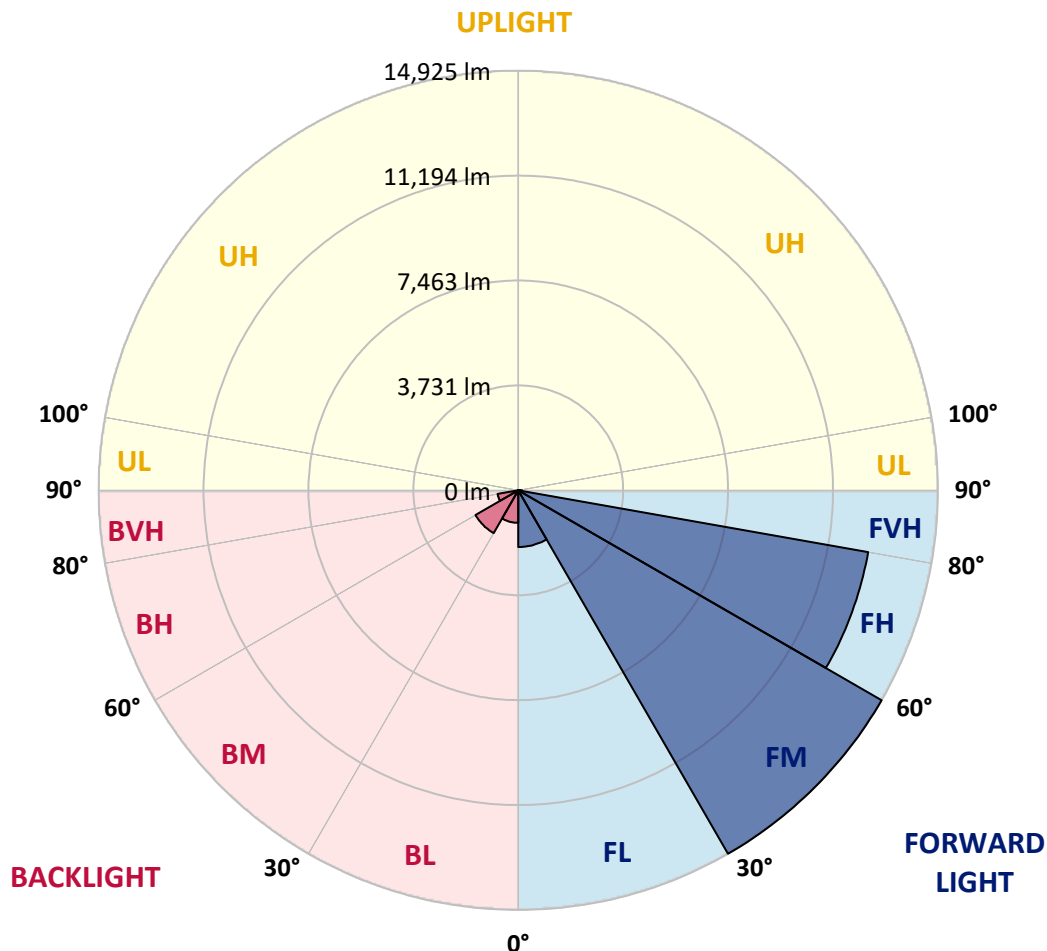
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.2	6.0			
FM (30°-60°)	14925.0	44.7			
FH (60°-80°)	12636.8	37.9			G5
FVH (80°-90°)	136.2	0.4			G2/225
BL (0°-30°)	1156.6	3.5	B3/2500		
BM (30°-60°)	1755.3	5.3	B2/2500		
BH (60°-80°)	745.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8
2.5°	3872.7	3890.1	3902.7	3910.6	3920.1	3940.6	3946.9	3956.4	3961.1	3961.1	3972.1
5°	3719.6	3738.6	3765.4	3787.5	3831.7	3888.5	3929.5	3945.3	3973.7	3999.0	4013.2
7.5°	3577.6	3599.7	3631.3	3683.3	3759.1	3850.6	3935.8	3957.9	4013.2	4066.8	4093.7
10°	3486.1	3503.4	3544.5	3618.6	3718.1	3845.9	3965.8	3992.7	4087.3	4177.3	4227.8
12.5°	3454.5	3470.3	3512.9	3596.5	3719.6	3869.6	4035.3	4074.7	4213.6	4344.6	4415.6
15°	3500.3	3503.4	3549.2	3628.1	3749.6	3928.0	4150.5	4197.8	4373.0	4543.4	4631.8
17.5°	3677.0	3662.8	3686.5	3721.2	3817.5	4005.3	4272.0	4343.0	4576.6	4777.0	4860.6
20°	4118.9	4118.9	4065.3	3970.6	3972.1	4125.2	4436.1	4516.6	4802.2	5034.2	5110.0
22.5°	4874.8	4860.6	4753.3	4521.3	4308.3	4332.0	4636.5	4740.7	5073.7	5321.4	5346.7
25°	5783.8	5766.5	5600.8	5274.1	4904.8	4666.5	4908.0	5027.9	5397.2	5616.5	5564.5
27.5°	6746.5	6732.3	6568.2	6162.6	5637.1	5199.9	5231.5	5345.1	5727.0	5943.2	5777.5
30°	7679.2	7683.9	7521.3	7104.7	6509.8	5880.1	5641.8	5708.1	6047.4	6266.7	6030.0
32.5°	8566.1	8572.4	8431.9	7966.4	7410.9	6670.7	6209.9	6192.6	6419.8	6636.0	6364.6
35°	9356.7	9372.5	9276.2	8914.8	8326.2	7551.3	6946.9	6905.9	6948.5	7193.1	6877.5
37.5°	10118.9	10128.4	10055.8	9751.2	9258.9	8518.7	7878.0	7819.6	7728.1	7915.9	7554.5
40°	10953.8	10930.1	10846.5	10570.3	10147.3	9587.1	8878.5	8777.5	8618.1	8785.4	8444.6
42.5°	11730.2	11703.4	11717.6	11405.1	11048.5	10685.5	10044.8	9871.2	9778.1	9970.6	9536.6
45°	12700.8	12686.6	12733.9	12462.5	12173.7	11910.1	11381.4	11192.1	11151.0	11376.7	10857.5
47.5°	13658.7	13693.4	13840.2	13725.0	13608.2	13376.2	12797.0	12711.8	12737.1	13010.1	12251.0
50°	14457.2	14498.2	14900.7	15033.2	15202.1	15066.4	14485.6	14433.5	14533.0	14779.1	13750.2
52.5°	15034.8	15118.4	15618.7	16229.4	16844.9	16936.4	16357.3	16309.9	16444.1	16481.9	14908.6
55°	15435.6	15509.8	16076.4	17193.7	18446.7	18841.2	18481.4	18298.4	18273.1	17899.1	16126.9
57.5°	15506.7	15498.8	16313.1	17817.0	19702.9	20720.8	20493.5	20313.6	19796.0	19208.9	17523.5
60°	15105.8	15151.6	16096.9	18033.2	20492.0	22142.7	22160.0	21926.5	21120.1	20482.5	18877.5
62.5°	13871.7	14057.9	15012.7	17466.7	20482.5	22715.5	23381.5	23203.2	22238.9	21525.6	20250.5
65°	11870.7	11936.9	12847.5	15525.6	19098.5	22475.7	24481.5	24415.2	23247.4	22538.8	20955.9
67.5°	8668.6	8525.0	9481.4	12225.7	16169.5	21077.4	25270.5	25354.2	24025.4	22747.1	20204.7
68°	7911.1	7953.8	8698.6	11409.8	15402.5	20583.5	25322.6	25450.4	24102.7	22611.4	19794.4
70°	4715.4	4797.5	5461.9	7855.9	11717.6	17788.6	24760.8	25052.7	23641.9	21211.6	17121.1
72.5°	1204.1	1302.0	1930.0	3516.1	6692.8	12533.5	20902.3	21396.2	20526.7	17207.9	11558.2
75°	495.5	520.8	689.6	1158.3	2493.4	5646.5	13777.0	14834.4	14230.0	10302.0	5223.6
77.5°	342.5	359.8	443.5	642.3	1079.4	1914.3	6754.4	7518.2	6773.3	3516.1	1139.4
80°	246.2	260.4	317.2	427.7	620.2	683.3	2201.5	2545.5	2021.6	771.7	282.5
82.5°	146.8	157.8	236.7	304.6	377.2	326.7	547.6	621.8	585.5	383.5	126.3
85°	72.6	85.2	159.4	217.8	203.6	137.3	167.3	186.2	230.4	233.6	67.9
87.5°	4.7	9.5	93.1	131.0	56.8	31.6	48.9	60.0	82.1	115.2	28.4
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°	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8	3965.8
2.5°	3976.9	3978.5	3967.4	3962.7	3965.8	3946.9	3939.0	3942.2	3942.2	3946.9	3939.0
5°	4016.3	4016.3	3997.4	3972.1	3957.9	3921.6	3898.0	3891.7	3886.9	3883.8	3877.5
7.5°	4101.5	4092.1	4058.9	4003.7	3956.4	3877.5	3817.5	3785.9	3770.1	3763.8	3759.1
10°	4238.8	4221.5	4166.3	4063.7	3954.8	3814.3	3683.3	3590.2	3512.9	3481.3	3462.4
12.5°	4423.5	4398.2	4305.1	4134.7	3943.7	3684.9	3400.9	3127.8	2873.8	2769.6	2717.5
15°	4636.5	4600.2	4453.5	4194.7	3879.0	3393.0	2775.9	2297.8	1945.8	1813.3	1756.5
17.5°	4852.7	4805.4	4582.9	4232.5	3684.9	2788.5	1947.4	1470.8	1235.7	1172.5	1150.5
20°	5070.5	5001.1	4694.9	4204.1	3246.2	2010.5	1284.6	1074.7	1006.8	987.9	981.6
22.5°	5277.3	5169.9	4795.9	4093.7	2570.8	1349.3	1016.3	950.0	927.9	916.9	913.7
25°	5457.2	5307.2	4884.3	3752.8	1819.6	1019.5	915.3	893.2	864.8	844.3	845.9
27.5°	5626.0	5444.5	4938.0	3191.0	1213.6	871.1	847.5	817.5	765.4	735.4	735.4
30°	5829.6	5627.6	4977.4	2455.6	893.2	770.1	751.2	705.4	634.4	595.0	595.0
32.5°	6135.8	5905.3	4952.2	1723.3	740.1	677.0	632.8	569.7	492.4	454.5	452.9
35°	6604.5	6334.6	4772.3	1129.9	653.3	588.6	517.6	440.3	372.4	340.9	339.3
37.5°	7235.7	6909.0	4368.3	808.0	585.5	506.6	421.4	336.1	285.6	265.1	263.5
40°	8054.8	7576.6	3790.7	654.9	522.4	427.7	325.1	260.4	225.7	209.9	211.5
42.5°	9037.9	8291.5	3097.9	565.0	460.8	351.9	254.1	205.2	183.1	172.0	168.9
45°	10130.0	8996.9	2371.9	503.4	399.3	284.1	198.8	162.5	145.2	138.9	138.9
47.5°	11330.9	9683.4	1735.9	449.8	333.0	219.4	159.4	132.6	118.4	113.6	112.0
50°	12421.4	10160.0	1251.5	393.0	273.0	173.6	129.4	110.5	101.0	94.7	94.7
52.5°	13330.4	10309.9	921.6	331.4	220.9	138.9	107.3	94.7	85.2	80.5	80.5
55°	14130.5	10248.3	684.9	273.0	178.3	113.6	91.5	80.5	72.6	67.9	67.9
57.5°	14897.5	10049.5	511.3	222.5	143.6	91.5	77.3	67.9	60.0	56.8	56.8
60°	15524.0	9718.1	380.3	179.9	115.2	74.2	64.7	55.2	48.9	44.2	44.2
62.5°	16032.2	9352.0	279.3	148.3	91.5	58.4	50.5	45.8	36.3	31.6	31.6
65°	16035.3	8744.4	209.9	123.1	71.0	45.8	37.9	36.3	23.7	18.9	17.4
67.5°	14875.4	7538.7	161.0	105.7	55.2	34.7	28.4	30.0	12.6	7.9	6.3
68°	14454.1	7232.6	151.5	104.2	52.1	33.1	26.8	30.0	11.0	6.3	4.7
70°	12186.3	5753.8	121.5	101.0	45.8	25.3	22.1	30.0	9.5	4.7	3.2
72.5°	7794.4	3339.3	90.0	80.5	34.7	18.9	14.2	26.8	9.5	3.2	1.6
75°	3317.2	1035.3	61.5	56.8	20.5	14.2	9.5	17.4	6.3	1.6	0.0
77.5°	699.1	233.6	36.3	34.7	14.2	9.5	6.3	4.7	1.6	0.0	0.0
80°	179.9	67.9	18.9	17.4	7.9	4.7	3.2	0.0	0.0	0.0	0.0
82.5°	56.8	26.8	11.0	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.4	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	4.7	1.6	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)