

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: P322282

Luminaire Tested: **GAN-SA8B-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322282
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-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 33374 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

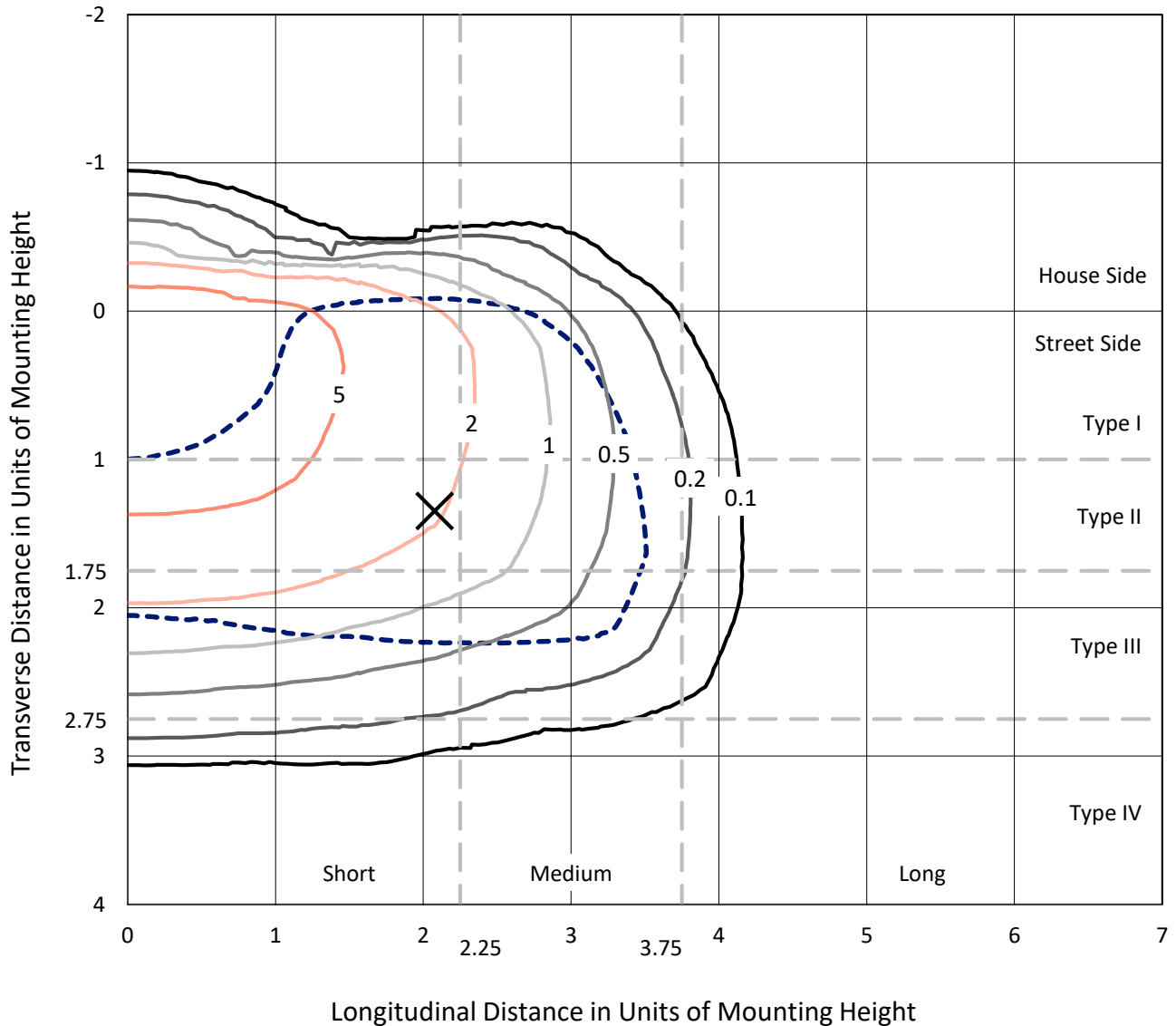
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

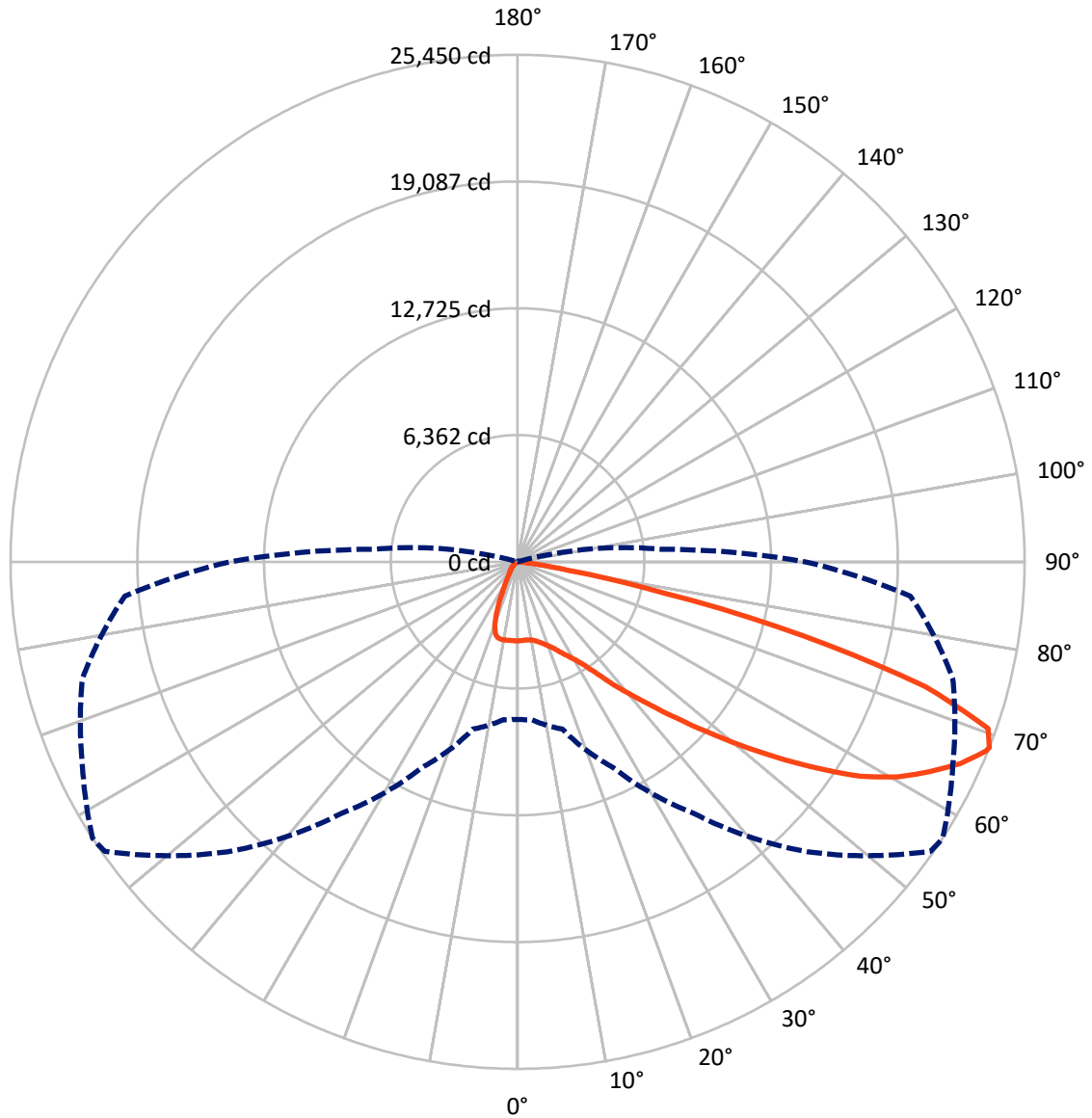
✕ Max cd
 - - - 1/2 Max cd



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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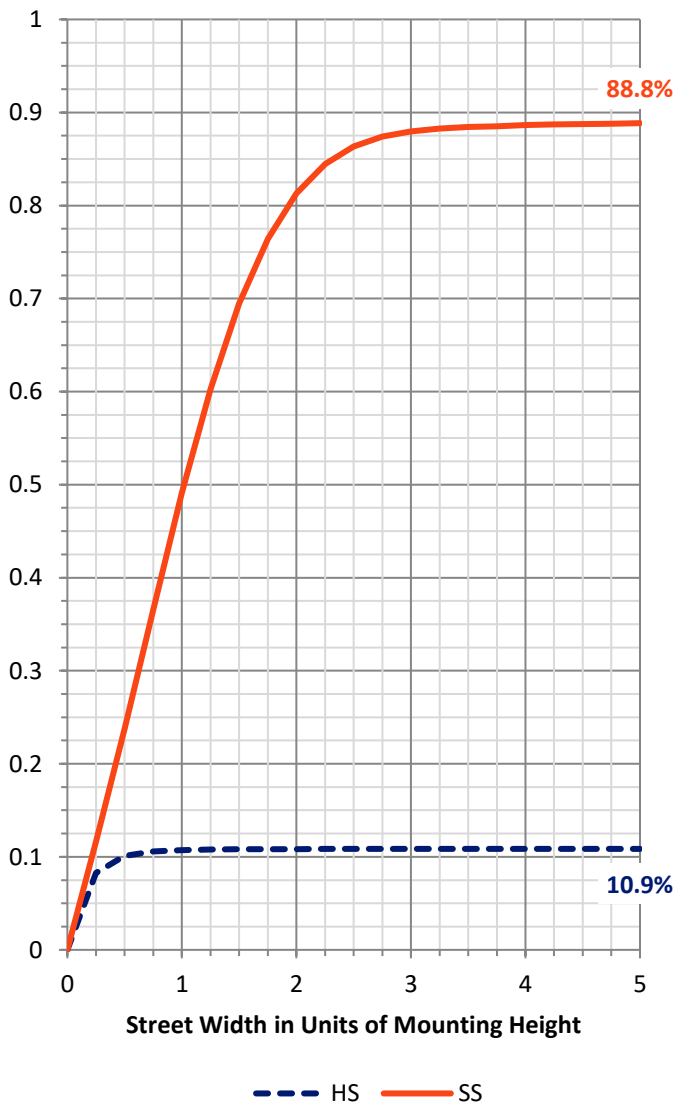
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3659.7	0.0	3659.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29714.4	0.0	29714.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	33374.0	0.0	33374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.1	1.1
10°-20°	1028.4	3.1
20°-30°	1774.2	5.3
30°-40°	3062.1	9.2
40°-50°	5237.8	15.7
50°-60°	8379.9	25.1
60°-70°	9682.1	29.0
70°-80°	3699.7	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°	33374.0	100.0
0°-180°	33374.0	100.0

Coefficient of Utilization



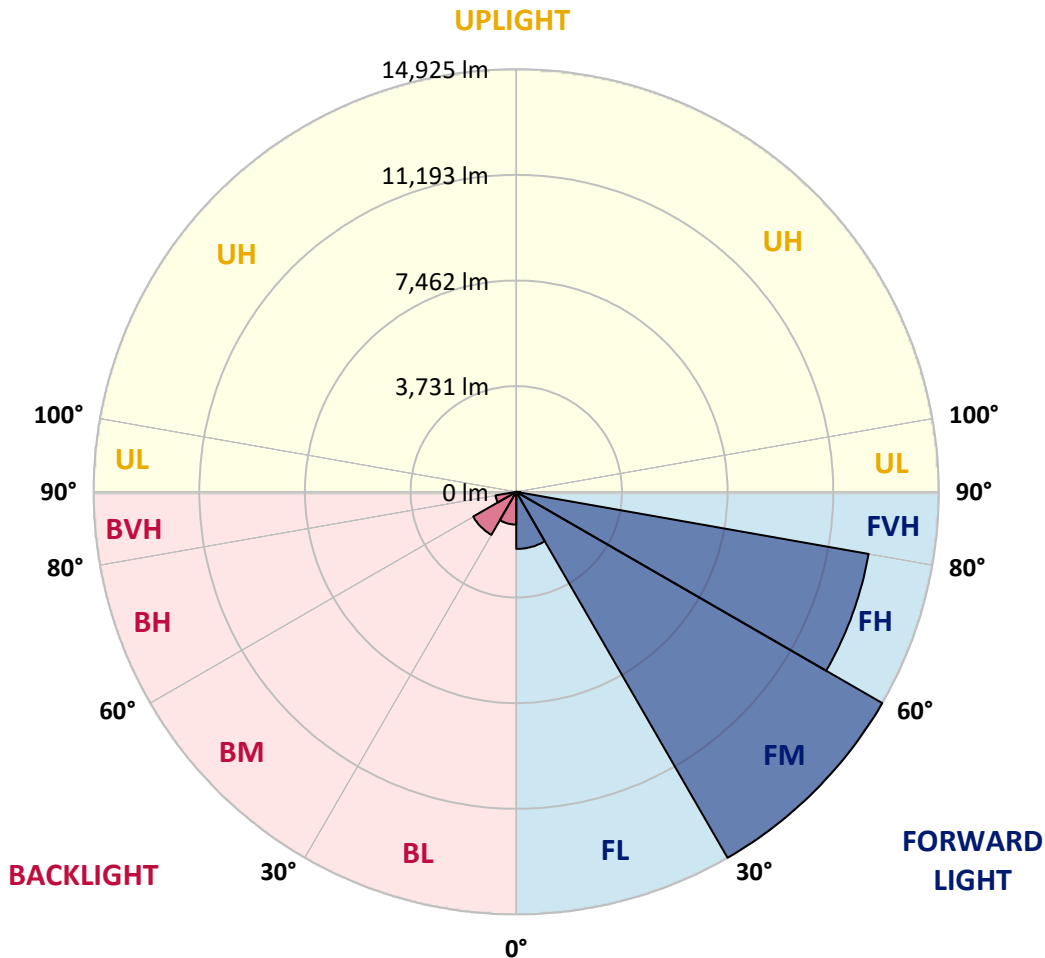
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.1	6.0			
FM (30°-60°)	14924.6	44.7			
FH (60°-80°)	12636.5	37.9			G5
FVH (80°-90°)	136.2	0.4			G2/225
BL (0°-30°)	1156.6	3.5	B3/2500		
BM (30°-60°)	1755.2	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°	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7
2.5°	3872.6	3890.0	3902.6	3910.5	3919.9	3940.5	3946.8	3956.2	3961.0	3961.0	3972.0
5°	3719.5	3738.5	3765.3	3787.4	3831.6	3888.4	3929.4	3945.2	3973.6	3998.9	4013.1
7.5°	3577.5	3599.6	3631.2	3683.2	3759.0	3850.5	3935.7	3957.8	4013.1	4066.7	4093.5
10°	3486.0	3503.3	3544.4	3618.5	3718.0	3845.8	3965.7	3992.5	4087.2	4177.2	4227.7
12.5°	3454.4	3470.2	3512.8	3596.4	3719.5	3869.4	4035.1	4074.6	4213.5	4344.4	4415.5
15°	3500.2	3503.3	3549.1	3628.0	3749.5	3927.8	4150.3	4197.7	4372.9	4543.3	4631.7
17.5°	3676.9	3662.7	3686.4	3721.1	3817.4	4005.2	4271.9	4342.9	4576.4	4776.8	4860.5
20°	4118.8	4118.8	4065.1	3970.4	3972.0	4125.1	4436.0	4516.5	4802.1	5034.1	5109.8
22.5°	4874.7	4860.5	4753.2	4521.2	4308.2	4331.8	4636.4	4740.5	5073.5	5321.3	5346.5
25°	5783.7	5766.3	5600.6	5273.9	4904.7	4666.4	4907.8	5027.8	5397.0	5616.4	5564.3
27.5°	6746.3	6732.1	6568.0	6162.4	5636.9	5199.8	5231.3	5345.0	5726.8	5943.0	5777.3
30°	7678.9	7683.7	7521.1	7104.5	6509.6	5879.9	5641.6	5707.9	6047.2	6266.5	6029.8
32.5°	8565.8	8572.1	8431.7	7966.1	7410.7	6670.5	6209.7	6192.4	6419.6	6635.8	6364.4
35°	9356.4	9372.2	9275.9	8914.6	8325.9	7551.1	6946.7	6905.7	6948.3	7192.9	6877.3
37.5°	10118.6	10128.1	10055.5	9750.9	9258.6	8518.5	7877.8	7819.4	7727.9	7915.6	7554.3
40°	10953.4	10929.8	10846.1	10570.0	10147.0	9586.8	8878.3	8777.3	8617.9	8785.2	8444.3
42.5°	11729.9	11703.0	11717.2	11404.8	11048.1	10685.2	10044.5	9870.9	9777.8	9970.3	9536.3
45°	12700.4	12686.2	12733.5	12462.1	12173.3	11909.8	11381.1	11191.7	11150.7	11376.4	10857.2
47.5°	13658.3	13693.0	13839.7	13724.5	13607.8	13375.8	12796.6	12711.4	12736.7	13009.7	12250.6
50°	14456.8	14497.8	14900.2	15032.8	15201.6	15065.9	14485.2	14433.1	14532.5	14778.7	13749.8
52.5°	15034.4	15118.0	15618.2	16229.0	16844.4	16935.9	16356.8	16309.4	16443.6	16481.5	14908.1
55°	15435.2	15509.4	16075.9	17193.2	18446.2	18840.7	18480.9	18297.8	18272.6	17898.6	16126.4
57.5°	15506.2	15498.3	16312.6	17816.5	19702.3	20720.2	20492.9	20313.0	19795.4	19208.4	17523.0
60°	15105.4	15151.1	16096.4	18032.7	20491.3	22142.0	22159.4	21925.8	21119.4	20481.9	18877.0
62.5°	13871.3	14057.5	15012.3	17466.2	20481.9	22714.9	23380.8	23202.5	22238.3	21525.0	20249.9
65°	11870.3	11936.6	12847.1	15525.1	19097.9	22475.0	24480.7	24414.5	23246.7	22538.1	20955.3
67.5°	8668.4	8524.8	9481.1	12225.4	16169.0	21076.8	25269.8	25353.4	24024.7	22746.4	20204.1
68°	7910.9	7953.5	8698.4	11409.5	15402.0	20582.9	25321.8	25449.7	24102.0	22610.7	19793.8
70°	4715.3	4797.4	5461.7	7855.7	11717.2	17788.1	24760.1	25052.0	23641.2	21211.0	17120.6
72.5°	1204.1	1301.9	1930.0	3516.0	6692.6	12533.1	20901.6	21395.6	20526.1	17207.4	11557.8
75°	495.5	520.8	689.6	1158.3	2493.4	5646.4	13776.6	14833.9	14229.5	10301.7	5223.4
77.5°	342.4	359.8	443.4	642.3	1079.4	1914.2	6754.2	7518.0	6773.1	3516.0	1139.4
80°	246.2	260.4	317.2	427.7	620.2	683.3	2201.4	2545.4	2021.5	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	126.2
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°	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7	3965.7
2.5°	3976.8	3978.3	3967.3	3962.6	3965.7	3946.8	3938.9	3942.0	3942.0	3946.8	3938.9
5°	4016.2	4016.2	3997.3	3972.0	3957.8	3921.5	3897.9	3891.5	3886.8	3883.7	3877.3
7.5°	4101.4	4092.0	4058.8	4003.6	3956.2	3877.3	3817.4	3785.8	3770.0	3763.7	3759.0
10°	4238.7	4221.4	4166.1	4063.6	3954.7	3814.2	3683.2	3590.1	3512.8	3481.2	3462.3
12.5°	4423.4	4398.1	4305.0	4134.6	3943.6	3684.8	3400.8	3127.8	2873.7	2769.5	2717.5
15°	4636.4	4600.1	4453.3	4194.5	3878.9	3392.9	2775.8	2297.7	1945.8	1813.2	1756.4
17.5°	4852.6	4805.2	4582.7	4232.4	3684.8	2788.5	1947.3	1470.8	1235.6	1172.5	1150.4
20°	5070.4	5000.9	4694.8	4204.0	3246.1	2010.5	1284.6	1074.7	1006.8	987.9	981.6
22.5°	5277.1	5169.8	4795.8	4093.5	2570.7	1349.3	1016.3	950.0	927.9	916.9	913.7
25°	5457.0	5307.1	4884.2	3752.7	1819.5	1019.4	915.3	893.2	864.8	844.3	845.9
27.5°	5625.8	5444.4	4937.8	3190.9	1213.5	871.1	847.4	817.4	765.4	735.4	735.4
30°	5829.4	5627.4	4977.3	2455.5	893.2	770.1	751.2	705.4	634.4	594.9	594.9
32.5°	6135.6	5905.2	4952.0	1723.3	740.1	677.0	632.8	569.7	492.4	454.5	452.9
35°	6604.3	6334.4	4772.1	1129.9	653.3	588.6	517.6	440.3	372.4	340.9	339.3
37.5°	7235.5	6908.8	4368.1	808.0	585.5	506.6	421.3	336.1	285.6	265.1	263.5
40°	8054.5	7576.4	3790.5	654.9	522.3	427.7	325.1	260.4	225.7	209.9	211.5
42.5°	9037.7	8291.2	3097.8	565.0	460.8	351.9	254.1	205.2	183.1	172.0	168.9
45°	10129.7	8996.6	2371.9	503.4	399.3	284.1	198.8	162.5	145.2	138.9	138.9
47.5°	11330.6	9683.1	1735.9	449.8	333.0	219.4	159.4	132.6	118.4	113.6	112.0
50°	12421.1	10159.7	1251.4	392.9	273.0	173.6	129.4	110.5	101.0	94.7	94.7
52.5°	13330.0	10309.6	921.6	331.4	220.9	138.9	107.3	94.7	85.2	80.5	80.5
55°	14130.1	10248.0	684.9	273.0	178.3	113.6	91.5	80.5	72.6	67.9	67.9
57.5°	14897.1	10049.2	511.3	222.5	143.6	91.5	77.3	67.9	60.0	56.8	56.8
60°	15523.6	9717.8	380.3	179.9	115.2	74.2	64.7	55.2	48.9	44.2	44.2
62.5°	16031.7	9351.7	279.3	148.3	91.5	58.4	50.5	45.8	36.3	31.6	31.6
65°	16034.9	8744.1	209.9	123.1	71.0	45.8	37.9	36.3	23.7	18.9	17.4
67.5°	14875.0	7538.5	161.0	105.7	55.2	34.7	28.4	30.0	12.6	7.9	6.3
68°	14453.6	7232.3	151.5	104.2	52.1	33.1	26.8	30.0	11.0	6.3	4.7
70°	12185.9	5753.7	121.5	101.0	45.8	25.2	22.1	30.0	9.5	4.7	3.2
72.5°	7794.1	3339.2	90.0	80.5	34.7	18.9	14.2	26.8	9.5	3.2	1.6
75°	3317.1	1035.2	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)