

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: P654121

Luminaire Tested: **GLAN-SA9A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654121
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-SA9A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 27298 lumens
Efficiency: N/A
Efficacy: 99.6 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

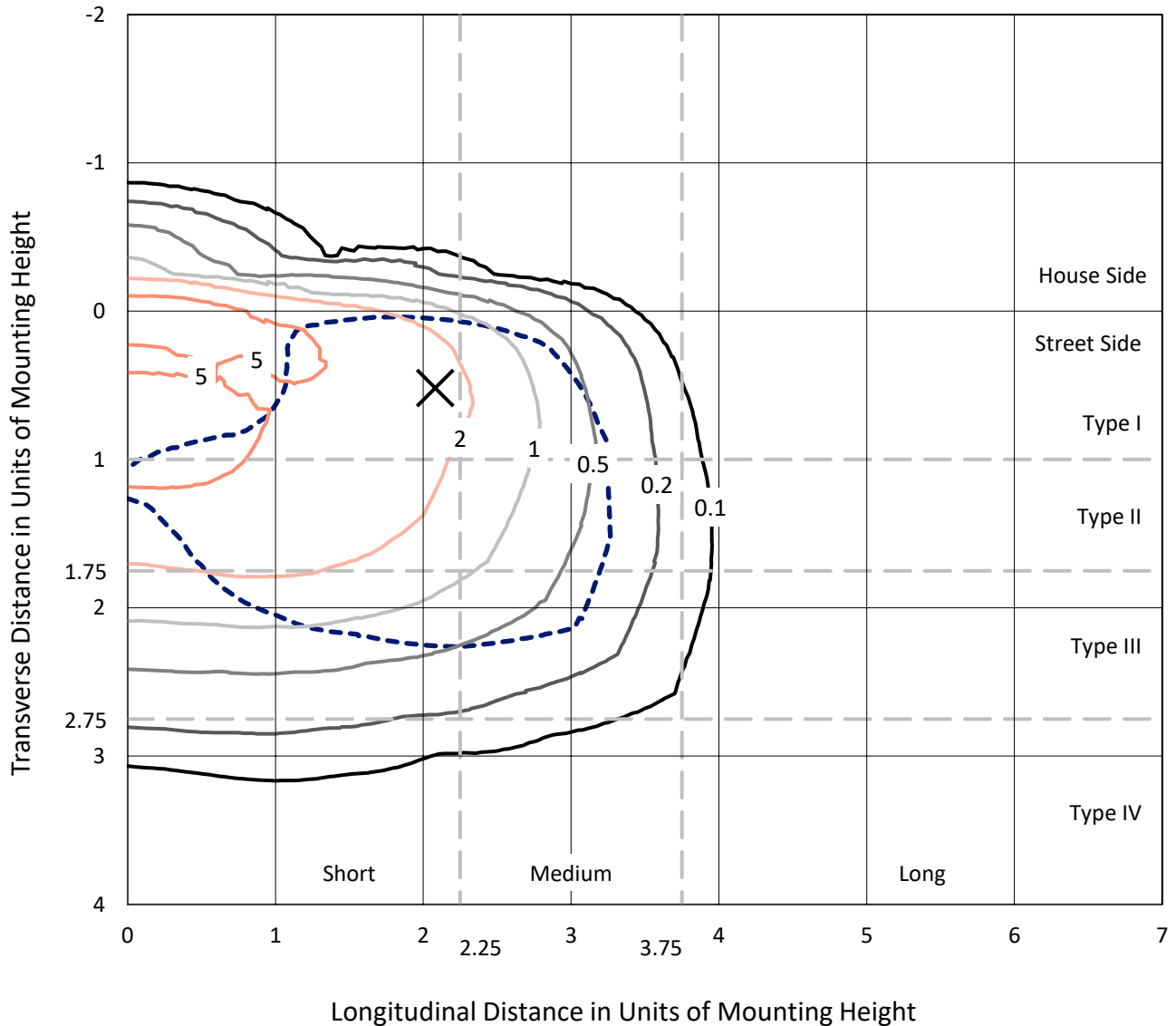
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

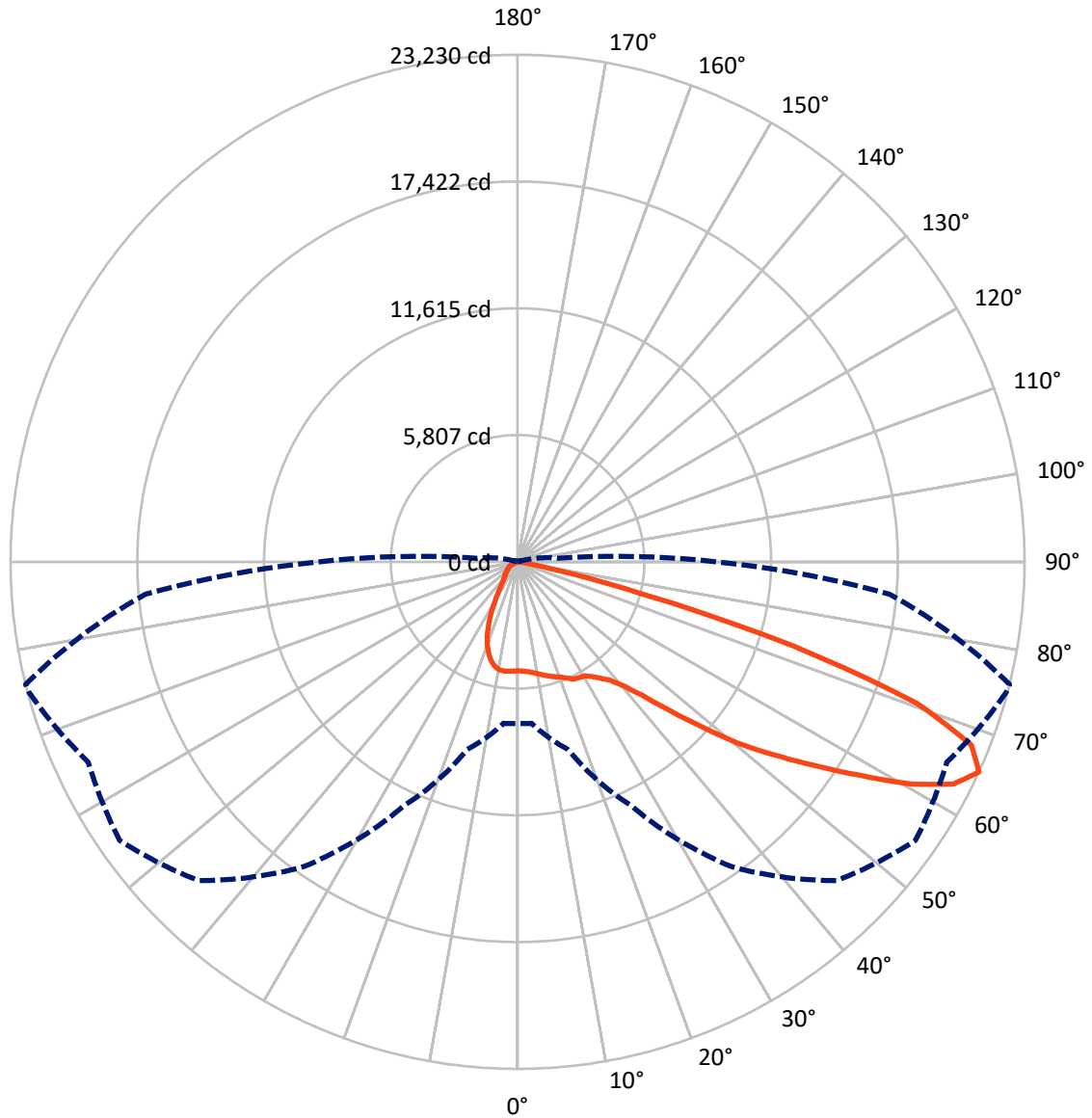
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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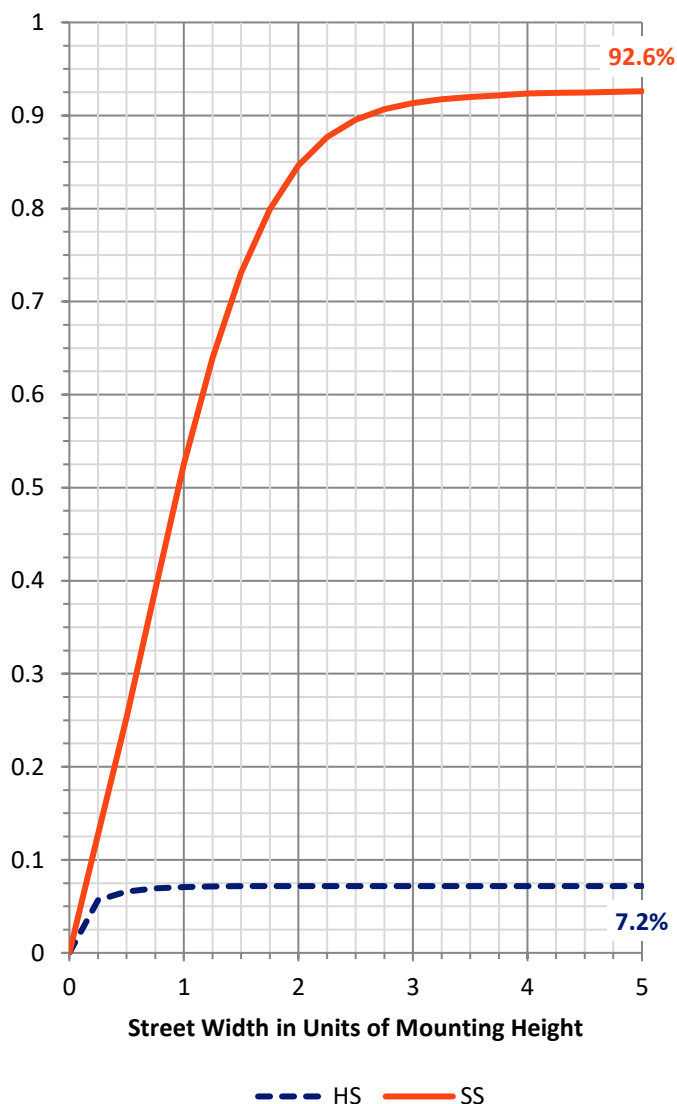
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1971.5	0.0	1971.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25326.6	0.0	25326.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	27298.0	0.0	27298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.4	1.5
10°-20°	915.9	3.4
20°-30°	1475.9	5.4
30°-40°	2566.3	9.4
40°-50°	4240.6	15.5
50°-60°	6550.9	24.0
60°-70°	7999.6	29.3
70°-80°	3036.1	11.1
80°-90°	101.3	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°	27298.0	100.0
0°-180°	27298.0	100.0

Coefficient of Utilization

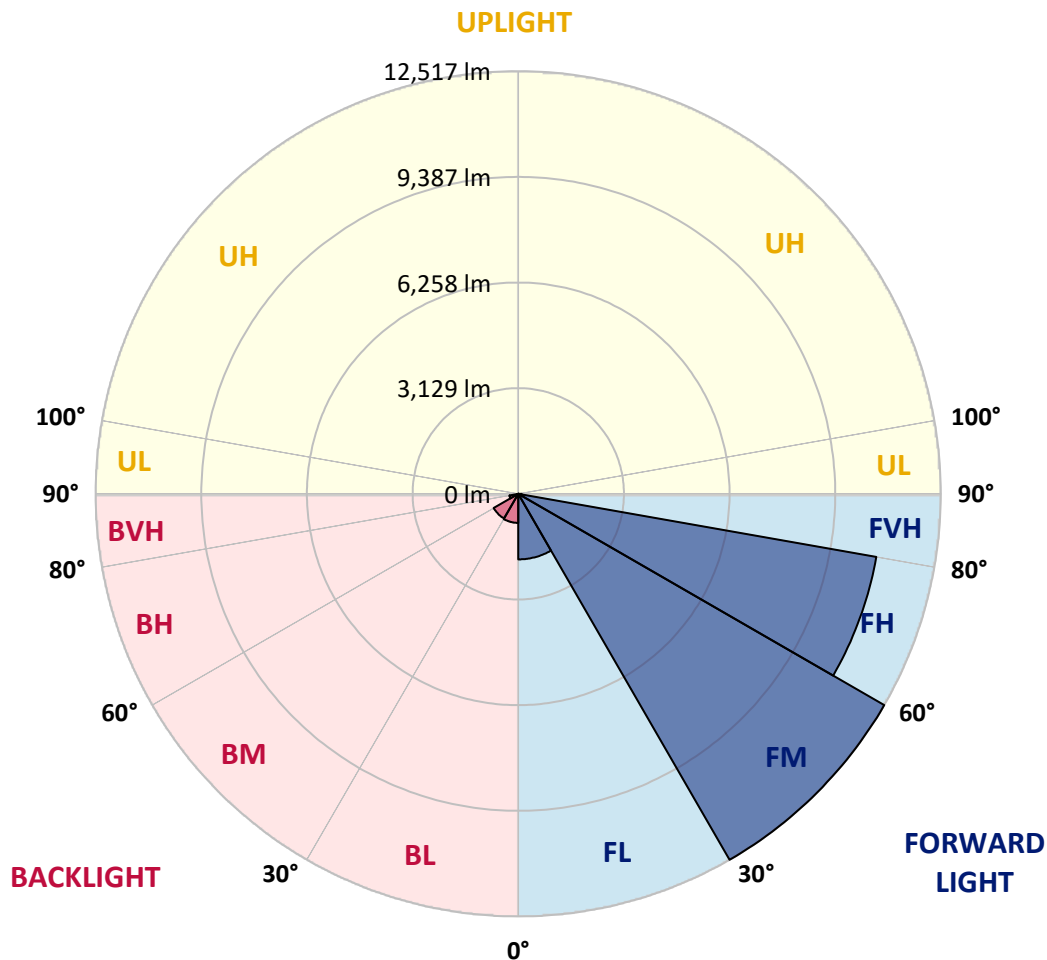


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.9	7.1			
FM (30°-60°)	12516.6	45.9			
FH (60°-80°)	10768.1	39.4			G4/12000
FVH (80°-90°)	99.9	0.4			G1/100
BL (0°-30°)	861.3	3.2	B2/1000		
BM (30°-60°)	841.3	3.1	B1/1000		
BH (60°-80°)	267.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.4	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°	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7
2.5°	4772.0	4773.9	4785.5	4814.5	4858.8	4895.4	4926.2	4976.4	5011.0	5014.9	5026.4
5°	4442.5	4419.4	4442.5	4517.6	4585.0	4687.2	4812.5	4937.8	5049.5	5057.3	5111.3
7.5°	4072.5	4091.7	4128.3	4205.4	4332.6	4488.8	4669.9	4893.4	5105.5	5124.7	5230.8
10°	3696.6	3739.0	3798.7	3916.3	4093.7	4296.0	4542.7	4862.7	5194.1	5221.1	5404.2
12.5°	3349.7	3369.0	3442.2	3600.2	3819.9	4105.2	4446.3	4845.3	5292.4	5325.2	5589.2
15°	3083.7	3108.8	3172.3	3315.0	3559.8	3926.0	4367.3	4839.5	5388.8	5435.0	5774.2
17.5°	3033.6	3049.0	3076.0	3172.3	3386.3	3783.3	4296.0	4837.6	5481.3	5537.1	5945.8
20°	3239.8	3226.3	3199.3	3189.7	3307.3	3673.5	4243.9	4853.0	5569.9	5633.5	6126.9
22.5°	3756.3	3773.7	3615.6	3428.7	3390.2	3656.1	4236.3	4926.2	5710.6	5785.8	6329.3
25°	4853.0	4720.0	4473.3	4026.2	3688.9	3762.1	4323.0	5099.7	5874.5	5957.3	6512.4
27.5°	6065.3	6024.8	5641.3	4905.0	4276.7	3985.7	4477.1	5232.7	5928.5	6013.2	6616.5
30°	7256.3	7304.5	6865.1	6051.8	5130.5	4400.0	4621.7	5282.7	5976.7	6065.3	6749.4
32.5°	8360.7	8418.5	8033.1	7227.5	6136.6	5117.1	4870.3	5477.4	6179.0	6269.6	6971.1
35°	9229.9	9237.6	8946.6	8304.8	7235.1	5988.2	5408.1	5818.5	6452.7	6558.6	7206.3
37.5°	10027.8	10016.2	9675.1	9122.0	8150.6	6853.6	6084.6	6211.7	6764.9	6874.8	7545.5
40°	10619.6	10627.2	10517.4	9997.0	9004.4	7653.4	6620.4	6579.9	7289.1	7460.7	8038.9
42.5°	11014.6	11085.9	11139.9	10875.8	10078.0	8638.2	7443.3	7368.2	8198.8	8341.5	8736.6
45°	11334.6	11461.7	11731.6	11718.1	11109.0	9846.7	8572.7	8418.5	9488.2	9640.5	9625.0
47.5°	11567.8	11696.9	12144.0	12413.8	12078.5	11018.4	9993.1	9860.1	11028.1	11193.9	10606.0
50°	11687.3	11841.4	12411.9	12934.2	12835.9	12147.9	11612.1	11619.8	12888.0	13047.9	11743.1
52.5°	11407.8	11608.2	12554.5	13495.1	13685.8	13229.1	13128.9	13383.3	14543.5	14680.4	12770.4
55°	10515.4	10767.9	12359.9	13973.0	14670.7	14505.0	14851.9	15239.3	16353.2	16442.0	13824.6
57.5°	9950.7	10218.7	11785.5	14379.8	15854.1	16108.5	16657.8	16941.1	18220.9	18446.3	15035.0
60°	9474.7	9684.8	11313.4	14466.5	17056.7	18070.6	18604.4	18897.4	20526.0	20672.4	16366.8
62.5°	8682.6	8923.5	10515.4	13861.3	17661.9	19641.3	20747.6	20616.5	22308.7	22410.9	17184.0
65°	7408.6	7429.8	8896.5	12340.6	17037.5	20660.8	22252.8	21703.5	23160.6	23229.9	17120.3
67.5°	5529.5	5733.8	6843.9	9700.2	14391.3	19789.7	22740.4	21732.4	22622.8	22430.1	15761.6
70°	3561.7	3717.8	4639.0	6726.3	10376.7	16515.2	21123.4	20242.6	19855.3	19427.4	12901.4
72.5°	1644.0	1844.5	2756.0	3843.0	6153.9	11764.3	17147.3	16445.8	14291.0	13234.9	8200.8
75°	717.0	767.1	1360.7	2027.6	2885.2	6221.4	11305.6	10209.0	6454.6	5895.7	3282.3
77.5°	437.5	470.3	713.1	1087.0	1133.2	2370.6	6090.4	4454.0	1994.8	1759.6	890.5
80°	296.8	333.5	518.5	568.6	387.4	661.1	2285.8	1189.2	402.8	385.4	190.8
82.5°	144.6	183.1	383.5	318.0	167.7	212.0	664.9	254.4	117.6	109.8	67.4
85°	21.2	36.6	215.9	208.1	75.2	50.1	117.6	63.6	40.5	38.5	30.9
87.5°	0.0	0.0	73.3	32.8	7.7	7.7	13.5	13.5	15.4	13.5	15.4
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°	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7
2.5°	5032.2	5041.9	5005.2	4953.2	4897.3	4841.4	4762.4	4691.1	4648.7	4673.8	4612.0
5°	5122.8	5115.1	5018.8	4860.7	4650.6	4398.2	4147.6	3933.7	3864.3	3760.2	3748.7
7.5°	5248.1	5226.9	5022.6	4660.2	4186.2	3712.0	3249.5	2943.0	2767.6	2619.2	2623.1
10°	5423.4	5361.8	4978.3	4307.5	3527.0	2812.0	2222.2	1817.5	1642.1	1586.2	1541.9
12.5°	5604.7	5485.2	4854.9	3831.5	2746.5	1921.5	1351.1	1104.3	996.4	961.8	957.9
15°	5766.6	5577.7	4639.0	3259.1	1996.7	1227.7	921.2	840.3	826.8	828.7	826.8
17.5°	5926.5	5650.9	4340.3	2652.0	1356.9	880.8	792.1	772.9	778.6	786.3	784.4
20°	6059.5	5666.3	3958.7	2023.7	959.8	772.9	743.9	740.1	745.9	751.7	751.7
22.5°	6204.1	5677.8	3505.8	1401.2	784.4	718.9	703.5	703.5	711.1	718.9	720.8
25°	6312.0	5614.3	2964.2	1006.1	691.9	666.8	659.2	661.1	668.8	672.6	670.7
27.5°	6329.3	5435.0	2389.9	770.9	628.3	603.2	595.5	603.2	593.6	599.4	595.5
30°	6344.8	5207.6	1807.8	649.5	570.5	531.9	520.4	508.8	501.1	491.5	489.5
32.5°	6392.9	4939.7	1320.2	584.0	516.5	474.2	447.2	414.4	389.3	381.6	379.7
35°	6414.1	4617.8	969.4	531.9	468.4	422.1	373.9	327.7	291.0	277.5	287.2
37.5°	6495.0	4305.7	751.7	493.4	426.0	368.1	306.5	248.6	214.0	206.2	210.1
40°	6660.8	3966.4	630.2	460.6	389.3	318.0	242.9	187.0	163.8	156.1	154.2
42.5°	6926.8	3629.2	560.9	429.8	352.7	267.9	190.8	146.5	127.2	121.4	121.4
45°	7250.6	3305.4	512.7	397.0	314.1	215.9	150.4	117.6	106.0	102.2	102.2
47.5°	7676.5	3022.0	472.2	364.2	271.7	171.6	121.4	102.2	94.4	96.4	98.3
50°	8108.2	2812.0	427.9	327.7	223.5	140.7	104.1	90.6	88.6	90.6	90.6
52.5°	8434.0	2688.6	368.1	277.5	175.3	117.6	92.5	84.8	82.8	79.1	79.1
55°	8873.4	2661.6	292.9	225.5	138.8	98.3	82.8	77.1	71.3	67.4	65.5
57.5°	9438.0	2692.5	225.5	175.3	107.9	81.0	73.3	63.6	55.9	48.2	48.2
60°	9788.8	2623.1	175.3	134.9	79.1	65.5	55.9	46.3	36.6	30.9	28.9
62.5°	9677.1	2330.2	138.8	100.2	55.9	48.2	36.6	30.9	21.2	15.4	13.5
65°	9100.8	1881.1	111.8	69.4	40.5	28.9	19.3	19.3	9.7	1.9	0.0
67.5°	7965.6	1393.5	88.6	46.3	23.1	13.5	9.7	5.8	0.0	0.0	0.0
70°	6483.5	1006.1	69.4	28.9	13.5	9.7	3.9	1.9	0.0	0.0	0.0
72.5°	4116.8	576.3	54.0	17.3	9.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	1591.9	225.5	36.6	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	451.0	106.0	21.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	117.6	46.3	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.9	19.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.8	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	1.9	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)