

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: P322523

Luminaire Tested: **GAN-SA9B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33041 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

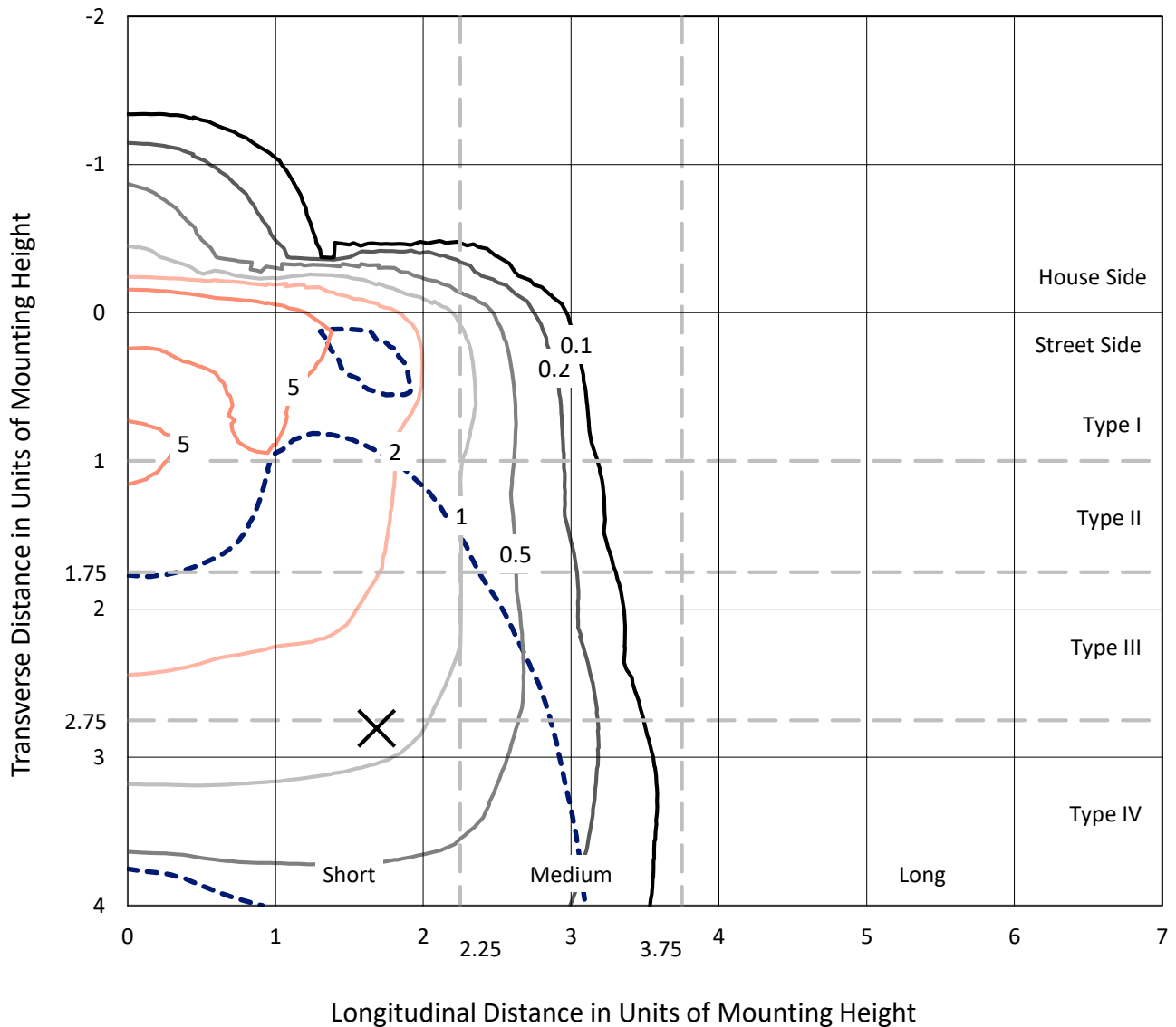
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

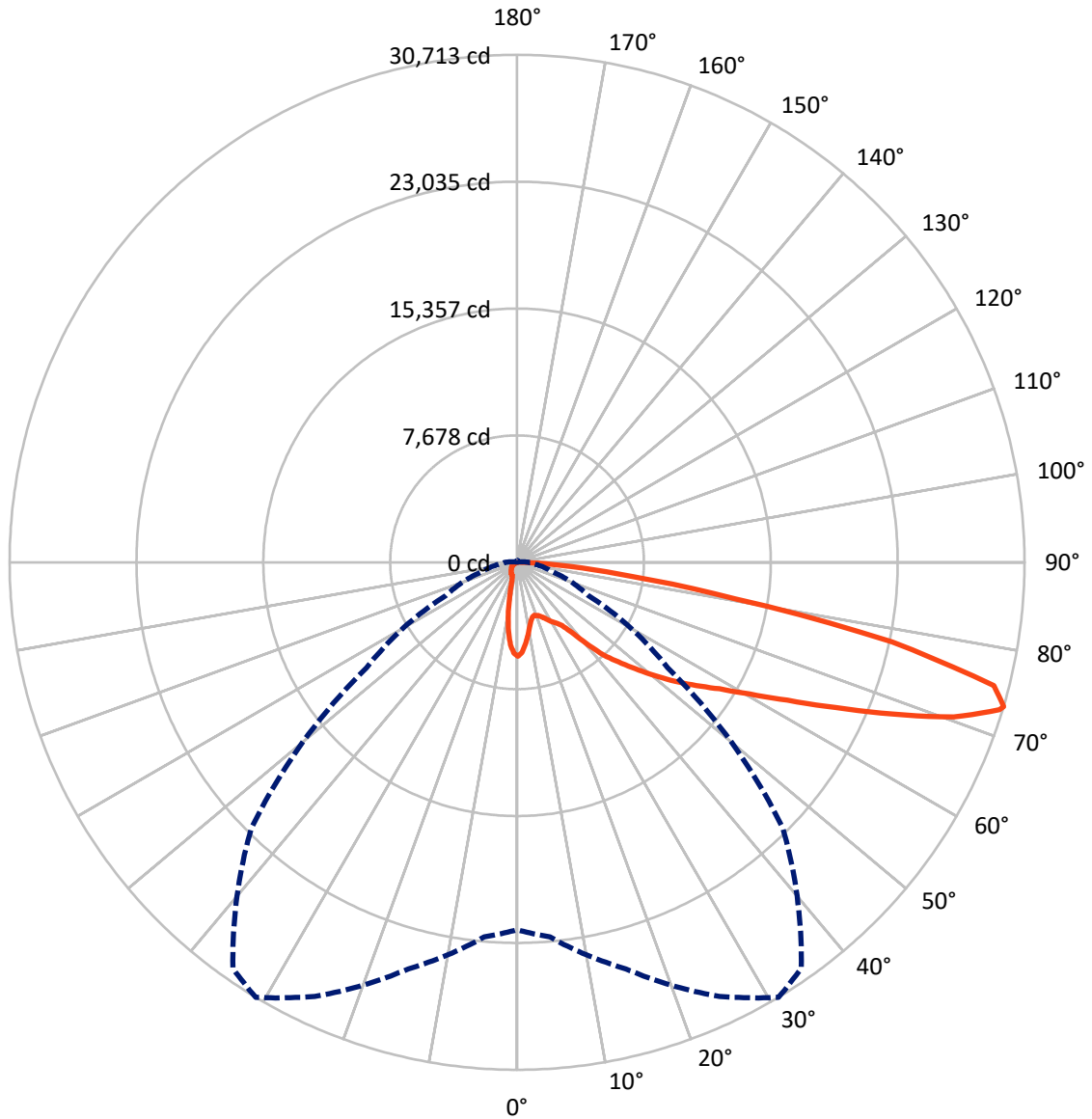
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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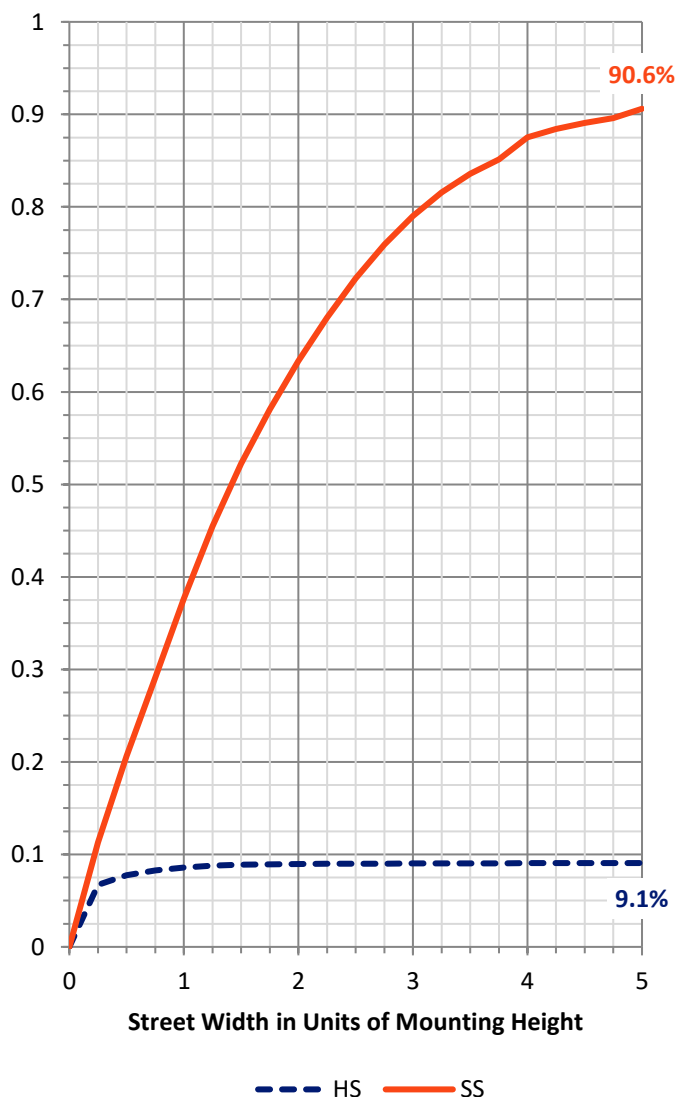
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3011.8	0.0	3011.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	30029.2	0.0	30029.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	33041.0	0.0	33041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.3	1.4
10°-20°	1023.4	3.1
20°-30°	1533.4	4.6
30°-40°	2439.6	7.4
40°-50°	4356.5	13.2
50°-60°	6760.1	20.5
60°-70°	8986.6	27.2
70°-80°	6759.7	20.5
80°-90°	710.3	2.1
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°	33041.0	100.0
0°-180°	33041.0	100.0

Coefficient of Utilization



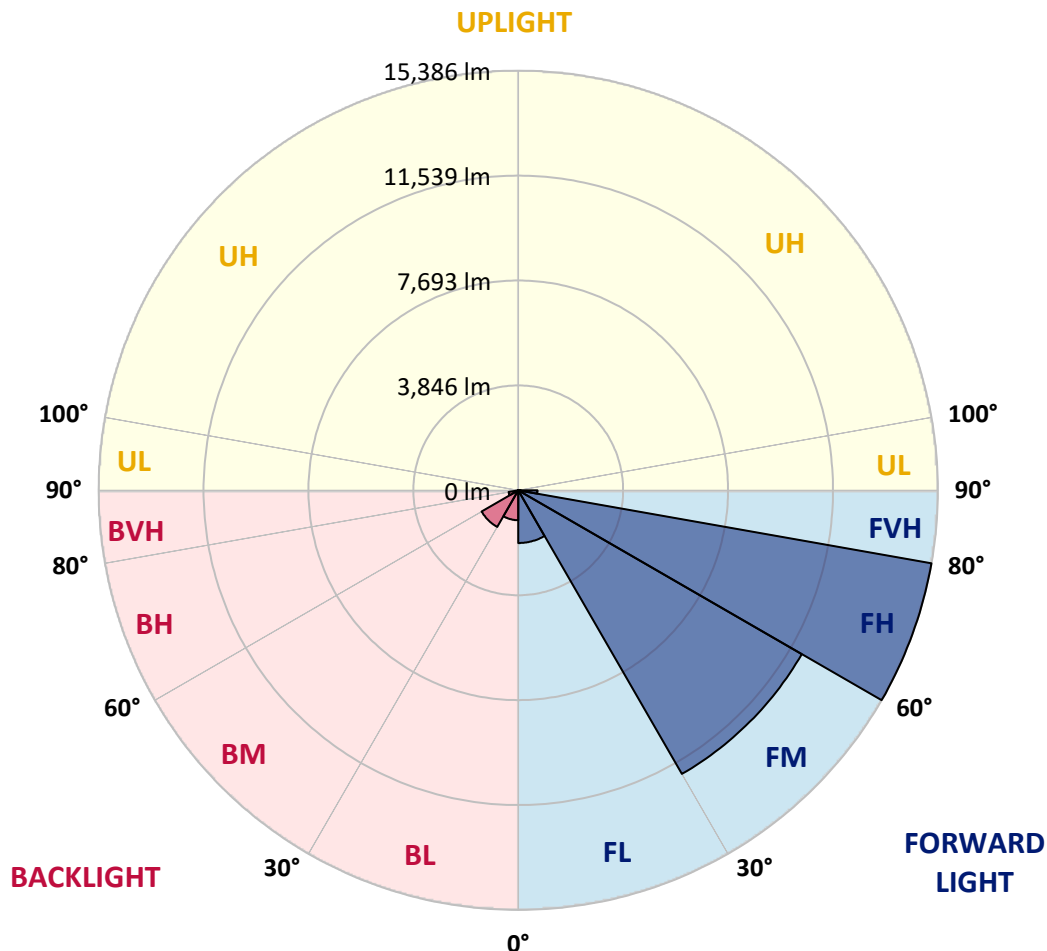
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.9	5.9			
FM (30°-60°)	12006.0	36.3			
FH (60°-80°)	15386.0	46.6			G5
FVH (80°-90°)	704.3	2.1			G4/750
BL (0°-30°)	1095.2	3.3	B3/2500		
BM (30°-60°)	1550.3	4.7	B2/2500		
BH (60°-80°)	360.3	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8
2.5°	5387.3	5409.9	5434.2	5439.0	5479.4	5481.1	5539.3	5582.9	5626.6	5668.6	5683.2
5°	4834.3	4871.5	4915.2	4958.8	5044.5	5078.5	5220.7	5366.3	5505.3	5637.9	5702.6
7.5°	4244.2	4286.2	4347.7	4456.0	4551.4	4617.7	4842.4	5101.1	5359.8	5603.9	5744.6
10°	3705.8	3744.6	3809.2	3924.0	4071.2	4161.7	4464.1	4823.0	5203.0	5573.2	5807.7
12.5°	3363.0	3384.0	3419.6	3542.5	3675.1	3776.9	4132.6	4577.2	5073.6	5571.6	5909.5
15°	3299.9	3306.4	3277.3	3332.3	3435.8	3534.4	3894.9	4378.4	4975.0	5597.5	6042.1
17.5°	3400.2	3397.0	3299.9	3293.5	3375.9	3456.8	3778.5	4240.9	4905.5	5657.3	6213.5
20°	3552.2	3540.9	3372.7	3342.0	3429.3	3505.3	3770.4	4189.2	4879.6	5757.5	6422.0
22.5°	3754.3	3734.9	3471.3	3439.0	3532.8	3612.0	3870.7	4239.3	4902.2	5891.7	6664.6
25°	4004.9	3975.8	3641.1	3605.5	3700.9	3780.1	4050.2	4383.2	4970.1	6055.0	6971.8
27.5°	4287.8	4245.8	3912.7	3820.6	3928.9	4011.4	4289.4	4603.1	5076.8	6228.0	7348.5
30°	4554.6	4499.6	4198.9	4046.9	4179.5	4271.7	4548.1	4865.0	5248.2	6494.8	7864.3
32.5°	4823.0	4761.6	4454.4	4273.3	4392.9	4493.2	4814.9	5225.6	5570.0	6902.2	8549.8
35°	5440.6	5376.0	4999.2	4700.1	4698.5	4755.1	5188.4	5718.7	5995.2	7469.8	9367.9
37.5°	6480.3	6443.1	6084.1	5516.6	5364.6	5301.6	5697.7	6307.3	6606.4	8250.7	10291.1
40°	7618.5	7586.2	7183.6	6669.4	6438.2	6283.0	6428.5	7127.0	7469.8	9204.6	11233.7
42.5°	8903.9	8750.3	8032.4	7878.8	7671.9	7553.8	7422.9	8137.5	8530.4	10242.6	12168.3
45°	10071.2	9812.5	8881.2	8648.4	8601.5	8630.6	8703.4	9495.6	9723.6	11476.3	13099.6
47.5°	10766.5	10562.7	9848.1	9625.0	9612.1	9804.5	10354.2	11030.0	10912.0	12551.4	13919.3
50°	11427.7	11243.4	10650.1	10705.0	10764.8	11026.8	12228.1	12608.0	11996.9	13526.4	14671.1
52.5°	11962.9	11681.6	11371.2	11680.0	11974.2	12396.2	14161.8	14024.4	12766.5	14302.5	15314.6
55°	12271.7	12144.0	12294.4	12604.8	13157.8	13843.3	15987.2	15203.0	13329.1	15010.6	15743.1
57.5°	13403.5	13152.9	13452.0	13720.4	14441.5	15400.3	17550.7	16081.0	13735.0	15448.8	15841.7
60°	14773.0	14570.9	14747.1	15193.3	16166.7	17293.6	19012.3	16797.2	13946.8	15730.1	15586.2
62.5°	16952.5	16685.7	16575.7	17075.3	18365.6	19596.0	20121.4	17293.6	13899.9	15605.6	14709.9
65°	19872.4	19596.0	19104.5	19557.2	21198.2	22066.5	21361.5	17398.7	13576.5	14598.4	12494.9
67.5°	22863.6	22663.1	22242.7	23005.9	24486.9	24766.6	22672.8	17143.2	12535.3	11836.8	8827.9
70°	24839.3	24753.7	25026.9	26714.9	28035.8	27955.0	23875.7	15770.6	9770.5	7279.0	4367.1
72.5°	23414.9	23825.6	25843.4	28904.1	30517.7	29858.0	23258.1	12110.1	5584.5	2800.3	1262.7
73°	22234.6	22760.1	25476.4	28986.5	30713.3	29990.6	22739.1	11115.7	4759.9	2210.2	957.2
75°	15468.2	16113.3	21091.5	26996.2	29798.2	28574.2	18954.1	6803.6	2205.4	979.8	386.4
77.5°	7510.2	7987.1	11613.7	19505.4	23174.0	22325.2	11799.6	2535.2	996.0	612.8	177.9
80°	2803.6	3117.2	5041.3	9927.3	13392.2	13743.0	5190.0	958.8	662.9	493.1	90.5
82.5°	734.0	818.1	1859.4	4426.9	6863.4	7183.6	1636.2	483.4	485.0	405.8	55.0
85°	234.4	268.4	580.4	1987.1	3233.7	2839.2	426.8	234.4	352.5	302.3	30.7
87.5°	29.1	37.2	184.3	467.3	713.0	396.1	66.3	69.5	150.4	168.2	17.8
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°	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8	5684.8
2.5°	5697.7	5689.6	5691.2	5649.2	5621.7	5566.7	5510.2	5484.3	5456.8	5445.5	5456.8
5°	5726.8	5712.3	5670.2	5540.9	5403.4	5225.6	5059.1	4932.9	4774.5	4730.8	4776.1
7.5°	5772.1	5743.0	5620.1	5356.6	5051.0	4711.4	4329.9	4051.8	3823.8	3676.7	3730.0
10°	5838.4	5783.4	5536.0	5088.2	4541.7	3940.2	3398.6	2976.6	2677.5	2554.6	2549.7
12.5°	5949.9	5846.5	5432.5	4738.9	3919.2	3117.2	2407.5	1949.9	1707.4	1550.5	1547.3
15°	6072.8	5920.8	5301.6	4320.2	3194.9	2232.8	1550.5	1202.9	1046.1	996.0	989.5
17.5°	6223.2	6006.5	5131.8	3804.4	2436.6	1479.4	1012.1	911.9	905.4	900.6	900.6
20°	6412.3	6108.4	4913.5	3214.3	1728.4	987.9	860.2	866.6	869.9	863.4	865.0
22.5°	6632.2	6211.9	4653.2	2580.5	1169.0	826.2	823.0	831.1	834.3	831.1	832.7
25°	6887.7	6331.5	4336.3	1915.9	844.0	784.2	792.2	803.6	811.6	811.6	811.6
27.5°	7204.6	6477.0	3954.8	1337.1	729.2	740.5	763.1	784.2	795.5	798.7	798.7
30°	7616.9	6658.1	3497.2	916.7	662.9	682.3	724.3	764.8	785.8	789.0	790.6
32.5°	8137.5	6861.8	2966.9	677.5	606.3	620.9	666.1	734.0	774.5	780.9	780.9
35°	8734.1	7097.9	2396.1	590.1	565.9	570.7	606.3	683.9	755.1	772.8	774.5
37.5°	9387.3	7330.7	1822.2	551.3	531.9	531.9	557.8	624.1	708.2	763.1	769.6
40°	9996.9	7471.4	1277.3	520.6	501.2	501.2	523.9	572.4	651.6	734.0	751.8
42.5°	10559.5	7519.9	889.3	491.5	472.1	477.0	496.4	535.2	595.0	677.5	693.6
45°	11138.3	7511.8	648.3	457.6	443.0	457.6	472.1	501.2	544.9	591.8	595.0
47.5°	11574.9	7443.9	514.2	425.2	415.5	434.9	447.9	467.3	491.5	488.3	488.3
50°	11983.9	7279.0	413.9	381.6	388.0	410.7	417.1	423.6	425.2	394.5	391.3
52.5°	12294.4	7021.9	331.5	334.7	360.6	383.2	376.7	367.0	350.9	313.7	307.2
55°	12397.8	6527.1	260.3	276.5	320.1	349.2	325.0	304.0	273.2	242.5	236.1
57.5°	12210.3	5888.5	211.8	215.0	270.0	294.3	266.8	242.5	208.6	182.7	177.9
60°	11812.6	5178.7	174.6	161.7	208.6	229.6	211.8	187.6	156.8	137.4	135.8
62.5°	11023.5	4422.0	143.9	126.1	158.4	176.2	164.9	147.1	121.3	108.3	106.7
65°	9364.7	3537.6	116.4	101.9	122.9	137.4	127.7	114.8	95.4	85.7	84.1
67.5°	6536.8	2391.3	95.4	84.1	97.0	108.3	100.2	93.8	76.0	74.4	76.0
70°	3152.8	1152.8	79.2	67.9	76.0	84.1	80.8	76.0	72.8	84.1	97.0
72.5°	903.8	386.4	63.1	56.6	61.4	66.3	69.5	67.9	79.2	101.9	118.0
73°	695.2	312.0	59.8	53.4	58.2	64.7	67.9	66.3	80.8	103.5	118.0
75°	297.5	150.4	45.3	43.7	48.5	56.6	59.8	59.8	80.8	105.1	113.2
77.5°	134.2	80.8	29.1	34.0	42.0	45.3	50.1	50.1	64.7	80.8	80.8
80°	76.0	43.7	22.6	25.9	30.7	30.7	30.7	27.5	29.1	32.3	35.6
82.5°	48.5	29.1	17.8	21.0	19.4	16.2	12.9	12.9	11.3	12.9	16.2
85°	27.5	16.2	16.2	12.9	8.1	6.5	8.1	6.5	1.6	0.0	1.6
87.5°	16.2	9.7	4.9	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)