

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: P383658

Luminaire Tested: **GAN-SA9B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383658
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-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 33797.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

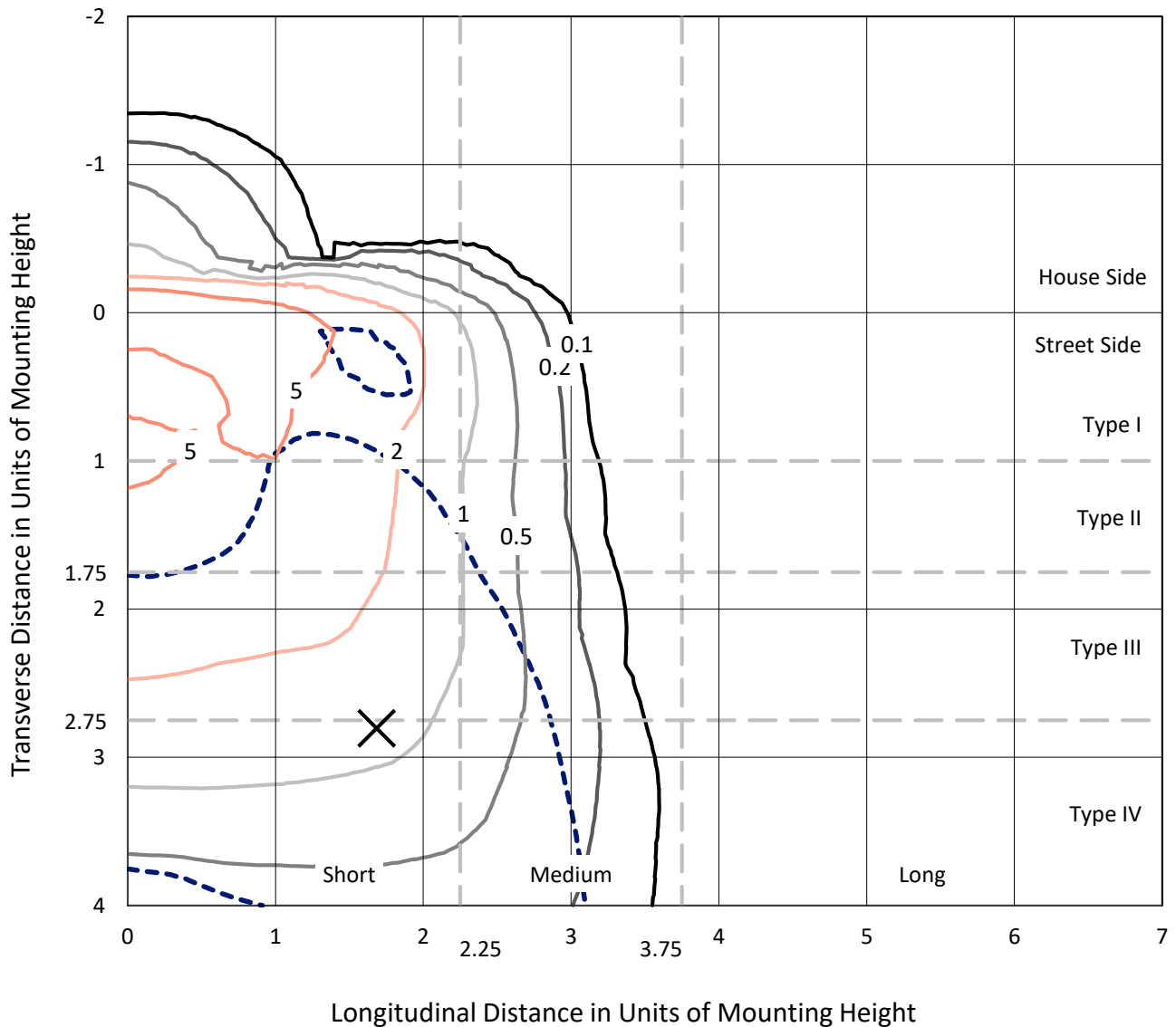
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

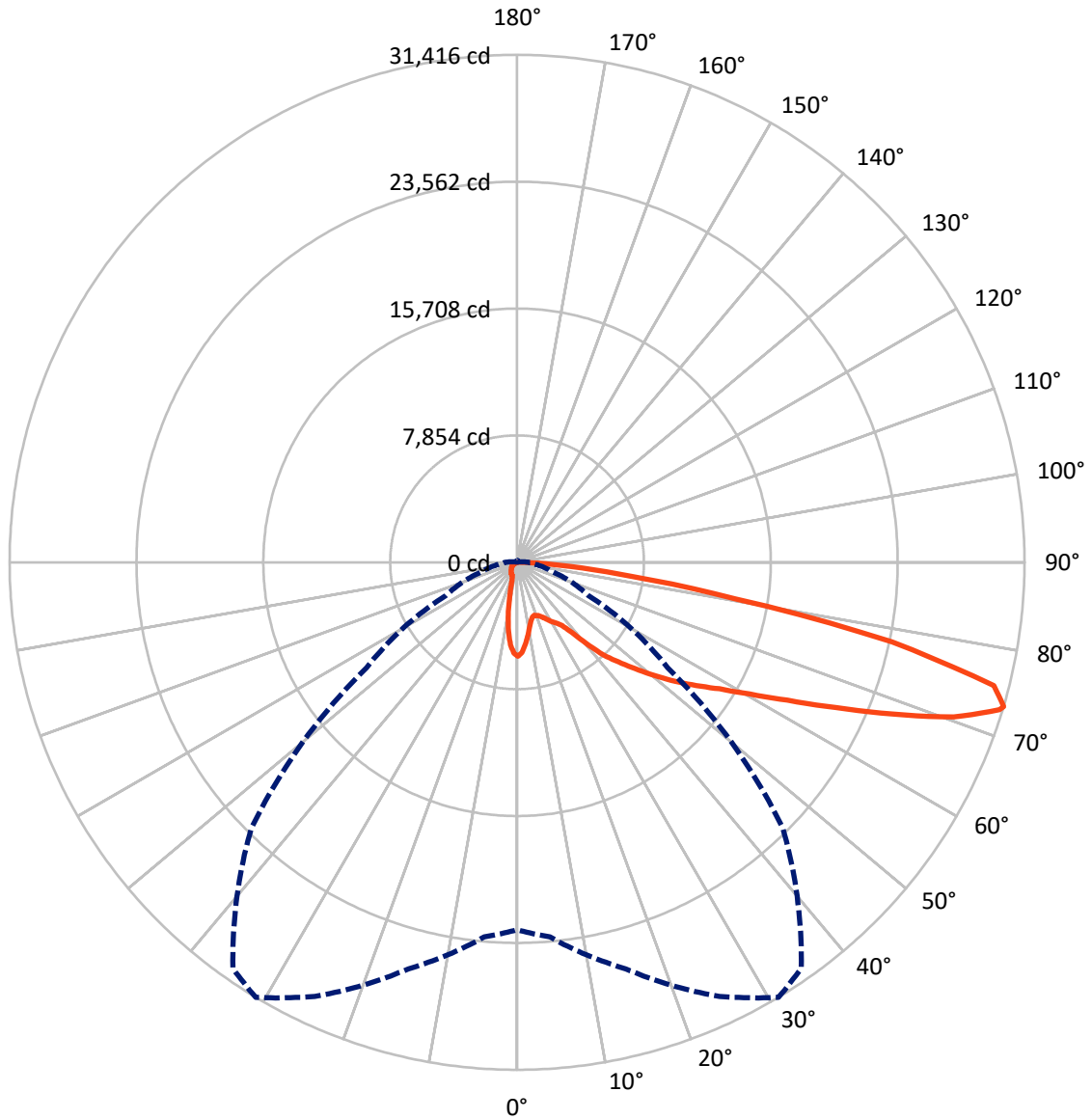
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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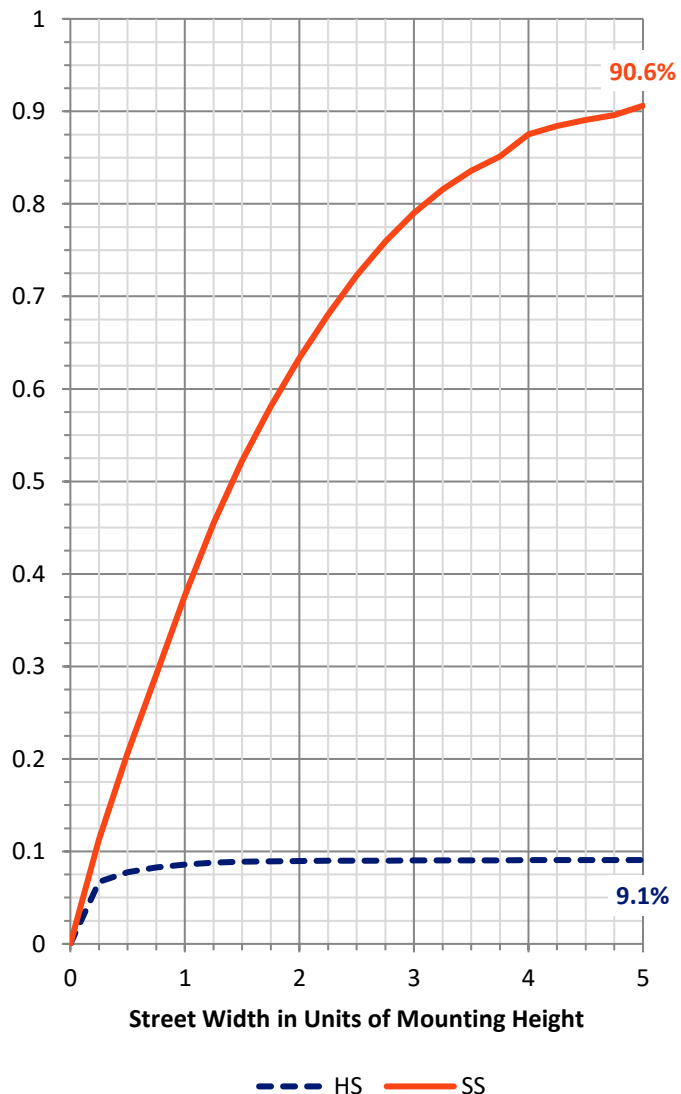
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3080.8	0.0	3080.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	30716.7	0.0	30716.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	33797.5	0.0	33797.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.1	1.4
10°-20°	1046.9	3.1
20°-30°	1568.5	4.6
30°-40°	2495.5	7.4
40°-50°	4456.3	13.2
50°-60°	6914.8	20.5
60°-70°	9192.3	27.2
70°-80°	6914.5	20.5
80°-90°	726.6	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°	33797.5	100.0
0°-180°	33797.5	100.0

Coefficient of Utilization



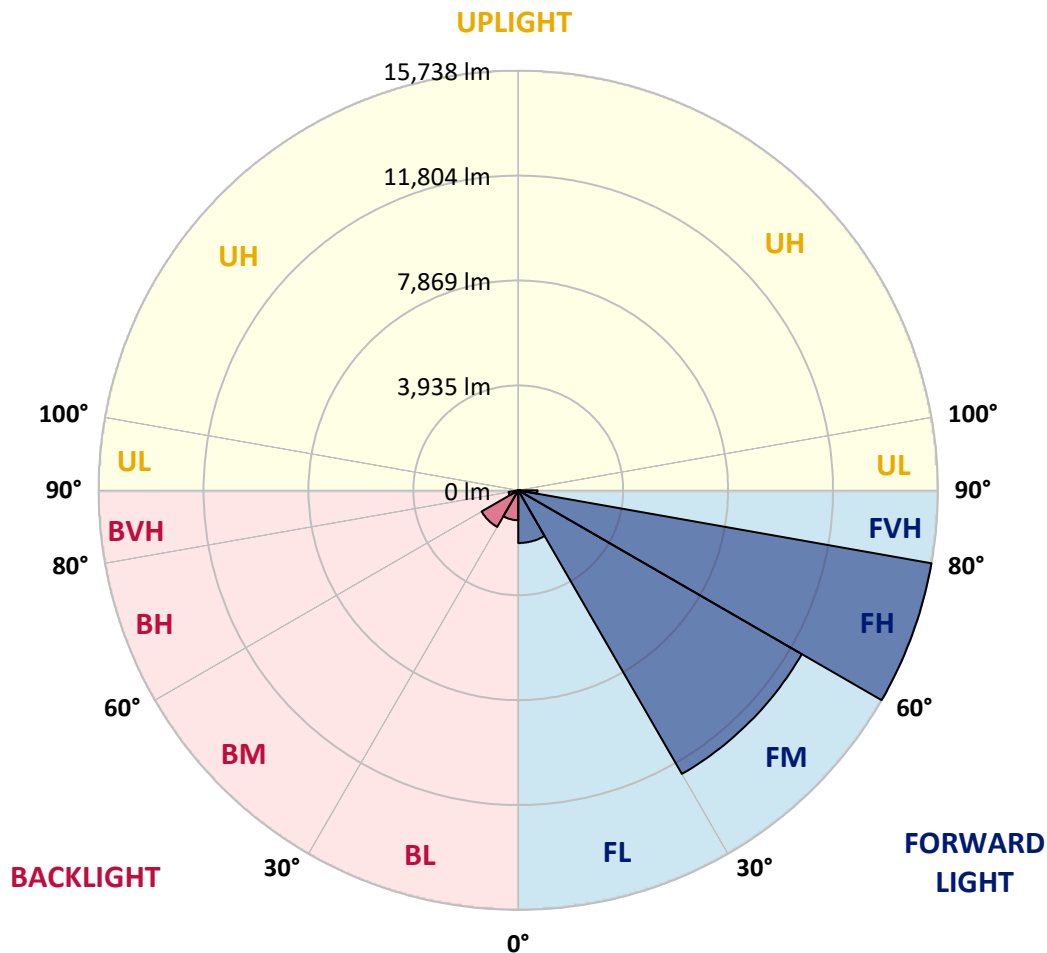
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.2	5.9			
FM (30°-60°)	12280.8	36.3			
FH (60°-80°)	15738.2	46.6			G5
FVH (80°-90°)	720.5	2.1			G4/750
BL (0°-30°)	1120.3	3.3	B3/2500		
BM (30°-60°)	1585.8	4.7	B2/2500		
BH (60°-80°)	368.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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°	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9
2.5°	5510.7	5533.8	5558.5	5563.6	5604.8	5606.5	5666.0	5710.8	5755.4	5798.4	5813.2
5°	4945.0	4983.0	5027.7	5072.4	5160.0	5194.8	5340.3	5489.1	5631.4	5766.9	5833.1
7.5°	4341.4	4384.3	4447.2	4558.0	4655.6	4723.4	4953.2	5217.9	5482.5	5732.3	5876.1
10°	3790.7	3830.3	3896.5	4013.9	4164.4	4257.0	4566.3	4933.4	5322.1	5700.8	5940.6
12.5°	3440.0	3461.5	3497.9	3623.5	3759.2	3863.4	4227.3	4682.1	5189.7	5699.1	6044.8
15°	3375.5	3382.1	3352.4	3408.5	3514.4	3615.3	3984.1	4478.6	5088.9	5725.7	6180.4
17.5°	3478.0	3474.8	3375.5	3368.8	3453.2	3536.0	3865.1	4338.0	5017.8	5786.8	6355.8
20°	3633.5	3622.0	3449.9	3418.5	3507.8	3585.5	3856.8	4285.1	4991.3	5889.3	6569.1
22.5°	3840.2	3820.4	3550.8	3517.7	3613.7	3694.7	3959.3	4336.4	5014.4	6026.6	6817.2
25°	4096.6	4066.8	3724.4	3688.1	3785.6	3866.7	4142.9	4483.5	5083.9	6193.7	7131.4
27.5°	4386.0	4343.0	4002.3	3908.0	4018.9	4103.2	4387.7	4708.5	5193.1	6370.6	7516.8
30°	4658.9	4602.7	4295.1	4139.6	4275.2	4369.4	4652.2	4976.4	5368.4	6643.5	8044.3
32.5°	4933.4	4870.6	4556.4	4371.1	4493.5	4596.1	4925.2	5345.2	5697.5	7060.3	8745.6
35°	5565.2	5499.0	5113.7	4807.7	4806.0	4864.0	5307.2	5849.7	6132.5	7640.7	9582.4
37.5°	6628.6	6590.6	6223.4	5642.9	5487.5	5423.0	5828.1	6451.6	6757.6	8439.5	10526.8
40°	7793.0	7759.9	7348.0	6822.1	6585.6	6426.8	6575.7	7290.2	7640.7	9415.3	11490.9
42.5°	9107.7	8950.6	8216.3	8059.2	7847.5	7726.8	7592.8	8323.8	8725.7	10477.1	12446.9
45°	10301.8	10037.2	9084.5	8846.4	8798.5	8828.3	8902.6	9713.1	9946.2	11739.0	13399.5
47.5°	11012.9	10804.6	10073.6	9845.3	9832.1	10028.9	10591.2	11282.5	11161.8	12838.8	14238.0
50°	11689.4	11500.9	10893.9	10950.2	11011.4	11279.3	12508.1	12896.7	12271.6	13836.1	15007.0
52.5°	12236.8	11949.1	11631.5	11947.4	12248.4	12680.0	14486.0	14345.5	13058.8	14630.0	15665.3
55°	12552.7	12422.0	12575.9	12893.4	13459.0	14160.3	16353.2	15551.2	13634.3	15354.3	16103.5
57.5°	13710.4	13454.1	13760.0	14034.5	14772.2	15752.9	17952.5	16449.2	14049.4	15802.5	16204.4
60°	15111.2	14904.5	15084.7	15541.2	16536.8	17689.5	19447.5	17181.8	14266.1	16090.2	15943.1
62.5°	17340.6	17067.7	16955.3	17466.2	18786.1	20044.7	20582.1	17689.5	14218.1	15962.9	15046.7
65°	20327.4	20044.7	19541.8	20004.9	21683.5	22571.7	21850.7	17797.0	13887.3	14932.6	12780.9
67.5°	23387.1	23181.9	22751.9	23532.6	25047.5	25333.6	23191.9	17535.7	12822.3	12107.8	9030.0
70°	25408.1	25320.4	25599.9	27326.5	28677.7	28595.0	24422.4	16131.6	9994.2	7445.6	4467.1
72.5°	23951.0	24371.1	26435.1	29565.8	31216.3	30541.6	23790.6	12387.3	5712.3	2864.5	1291.7
73°	22743.7	23281.2	26059.7	29650.1	31416.4	30677.2	23259.7	11370.2	4868.9	2260.8	979.1
75°	15822.3	16482.2	21574.5	27614.2	30480.4	29228.4	19388.0	6959.4	2255.8	1002.3	395.3
77.5°	7682.1	8170.0	11879.6	19952.0	23704.6	22836.3	12069.8	2593.2	1018.7	626.8	181.9
80°	2867.8	3188.6	5156.7	10154.6	13698.8	14057.7	5308.9	980.7	678.1	504.4	92.6
82.5°	750.8	836.8	1901.9	4528.3	7020.6	7348.0	1673.7	494.5	496.1	415.1	56.3
85°	239.8	274.5	593.8	2032.5	3307.7	2904.2	436.6	239.8	360.5	309.3	31.4
87.5°	29.8	38.0	188.5	478.0	729.3	405.2	67.8	71.1	153.8	172.0	18.2
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°	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9	5814.9
2.5°	5828.1	5819.8	5821.5	5778.6	5750.4	5694.2	5636.3	5609.9	5581.7	5570.2	5581.7
5°	5857.9	5843.0	5800.0	5667.7	5527.2	5345.2	5174.9	5045.9	4883.8	4839.1	4885.5
7.5°	5904.2	5874.4	5748.8	5479.2	5166.6	4819.3	4429.0	4144.5	3911.4	3760.8	3815.4
10°	5972.1	5915.8	5662.8	5204.6	4645.6	4030.4	3476.3	3044.8	2738.7	2613.1	2608.1
12.5°	6086.2	5980.3	5557.0	4847.4	4008.9	3188.6	2462.5	1994.5	1746.5	1586.1	1582.7
15°	6211.8	6056.4	5423.0	4419.1	3268.0	2284.0	1586.1	1230.5	1070.1	1018.7	1012.1
17.5°	6365.6	6144.0	5249.3	3891.5	2492.4	1513.3	1035.3	932.8	926.1	921.2	921.2
20°	6559.1	6248.3	5026.1	3287.8	1768.0	1010.5	879.8	886.5	889.8	883.2	884.8
22.5°	6784.1	6354.1	4759.7	2639.5	1195.7	845.1	841.8	850.0	853.4	850.0	851.7
25°	7045.4	6476.5	4435.7	1959.8	863.3	802.2	810.4	822.0	830.2	830.2	830.2
27.5°	7369.6	6625.4	4045.3	1367.7	745.9	757.4	780.6	802.2	813.7	817.0	817.0
30°	7791.3	6810.5	3577.2	937.7	678.1	697.9	741.0	782.3	803.7	807.1	808.8
32.5°	8323.8	7018.9	3034.8	693.0	620.2	635.0	681.4	750.8	792.2	798.8	798.8
35°	8934.1	7260.4	2451.0	603.6	578.9	583.8	620.2	699.6	772.3	790.5	792.2
37.5°	9602.2	7498.6	1863.8	564.0	544.1	544.1	570.6	638.4	724.4	780.6	787.3
40°	10225.7	7642.4	1306.5	532.6	512.7	512.7	535.8	585.5	666.5	750.8	769.0
42.5°	10801.3	7692.1	909.7	502.8	482.9	487.9	507.7	547.4	608.6	693.0	709.5
45°	11393.4	7683.8	663.2	468.0	453.2	468.0	482.9	512.7	557.3	605.3	608.6
47.5°	11839.9	7614.3	526.0	434.9	425.1	444.9	458.1	478.0	502.8	499.5	499.5
50°	12258.3	7445.6	423.4	390.3	396.9	420.0	426.6	433.3	434.9	403.5	400.2
52.5°	12575.9	7182.7	339.1	342.3	368.8	392.0	385.4	375.4	358.9	320.8	314.2
55°	12681.7	6676.6	266.2	282.8	327.4	357.2	332.5	311.0	279.5	248.1	241.5
57.5°	12489.8	6023.3	216.7	219.9	276.2	301.0	272.9	248.1	213.3	186.9	181.9
60°	12083.0	5297.2	178.6	165.3	213.3	234.8	216.7	191.8	160.4	140.6	138.9
62.5°	11275.9	4523.3	147.2	129.0	162.1	180.3	168.7	150.5	124.1	110.9	109.2
65°	9579.1	3618.6	119.1	104.1	125.7	140.6	130.7	117.5	97.5	87.7	86.0
67.5°	6686.5	2446.1	97.5	86.0	99.2	110.9	102.6	95.9	77.7	76.1	77.7
70°	3225.0	1179.2	81.0	69.5	77.7	86.0	82.7	77.7	74.4	86.0	99.2
72.5°	924.5	395.3	64.5	57.8	62.9	67.8	71.1	69.5	81.0	104.1	120.7
73°	711.1	319.1	61.2	54.6	59.5	66.1	69.5	67.8	82.7	105.8	120.7
75°	304.3	153.8	46.3	44.6	49.7	57.8	61.2	61.2	82.7	107.5	115.8
77.5°	137.3	82.7	29.8	34.7	43.0	46.3	51.2	51.2	66.1	82.7	82.7
80°	77.7	44.6	23.2	26.5	31.4	31.4	31.4	28.1	29.8	33.1	36.4
82.5°	49.7	29.8	18.2	21.5	19.8	16.6	13.2	13.2	11.6	13.2	16.6
85°	28.1	16.6	16.6	13.2	8.3	6.6	8.3	6.6	1.7	0.0	1.7
87.5°	16.6	10.0	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)