

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: P383630

Luminaire Tested: **GAN-SA9A-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383630
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-SA9A-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 27560.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

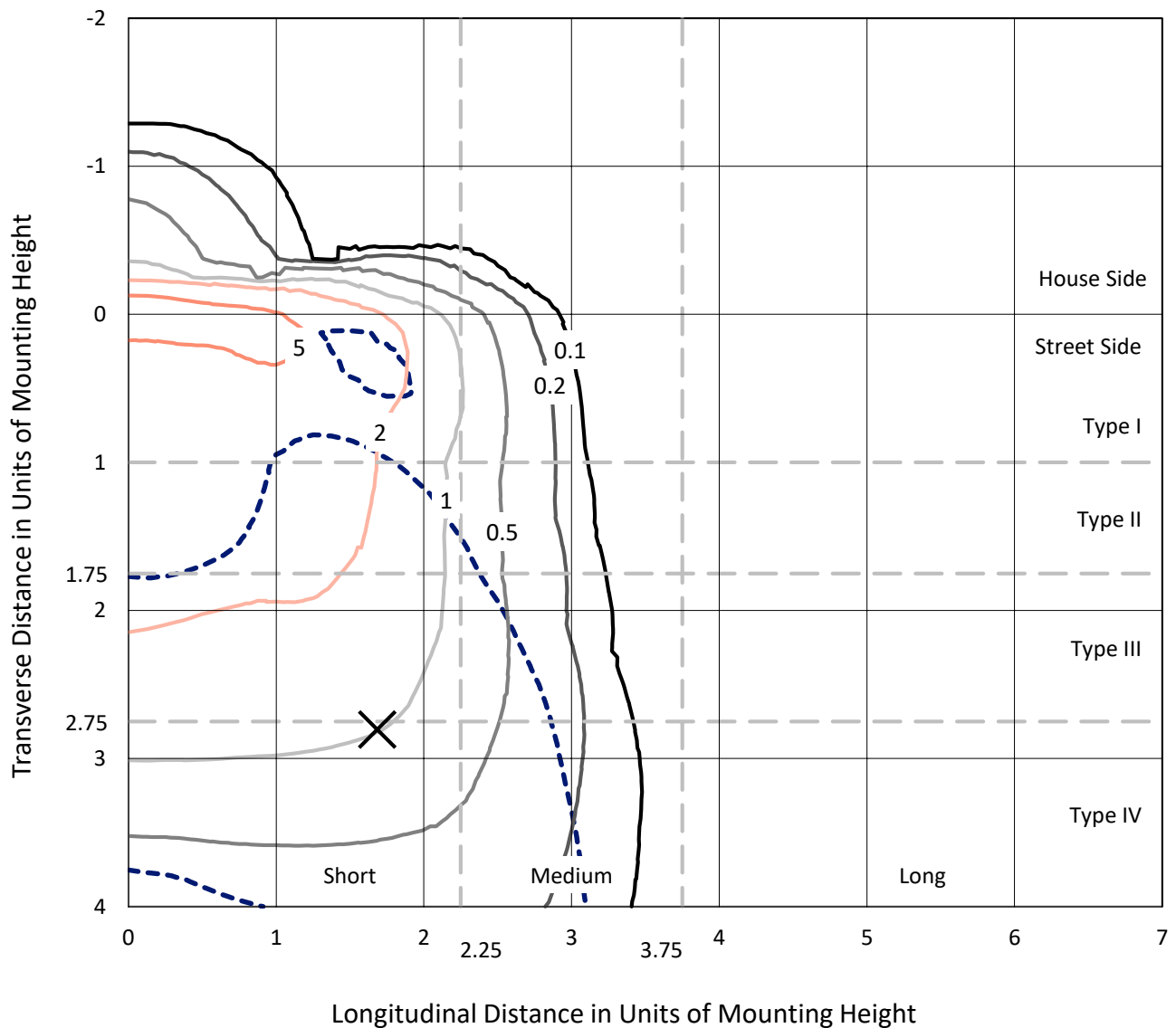
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

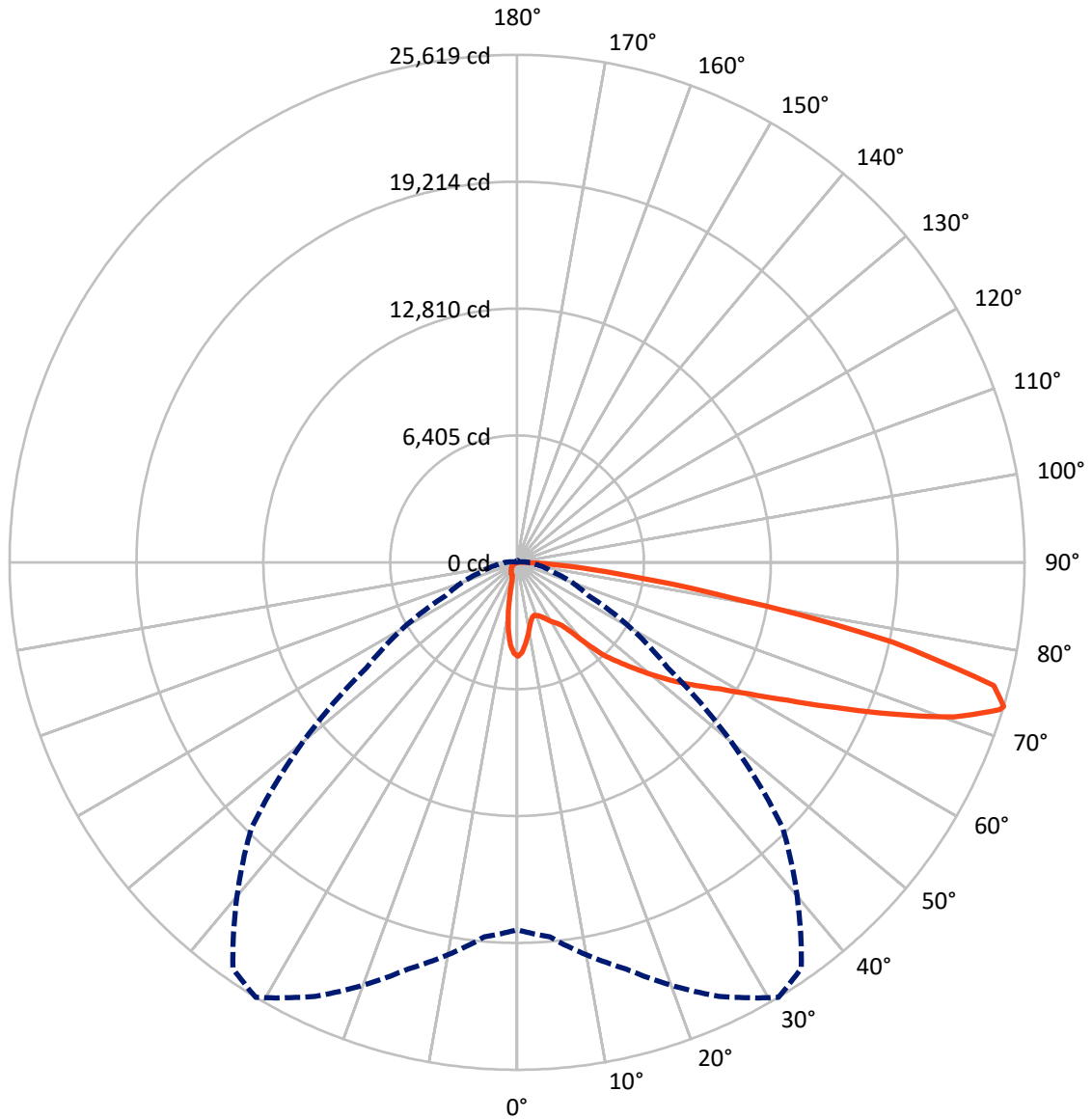
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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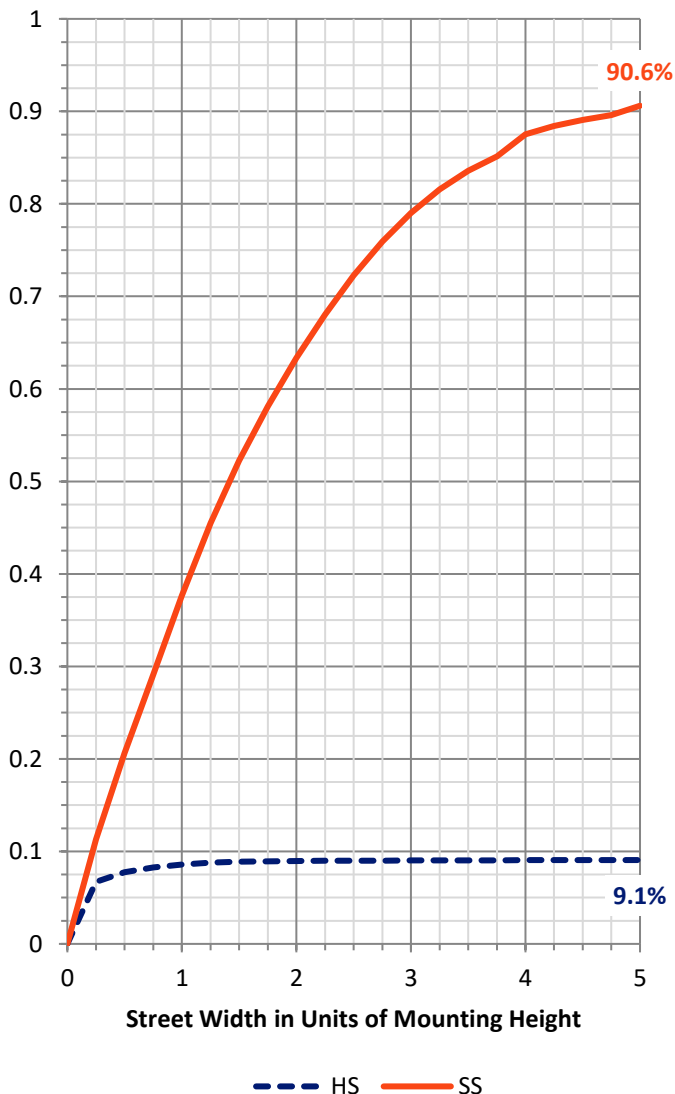
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2512.3	0.0	2512.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	25048.5	0.0	25048.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	27560.7	0.0	27560.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.4
10°-20°	853.7	3.1
20°-30°	1279.1	4.6
30°-40°	2035.0	7.4
40°-50°	3633.9	13.2
50°-60°	5638.8	20.5
60°-70°	7496.1	27.2
70°-80°	5638.5	20.5
80°-90°	592.5	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°	27560.7	100.0
0°-180°	27560.7	100.0

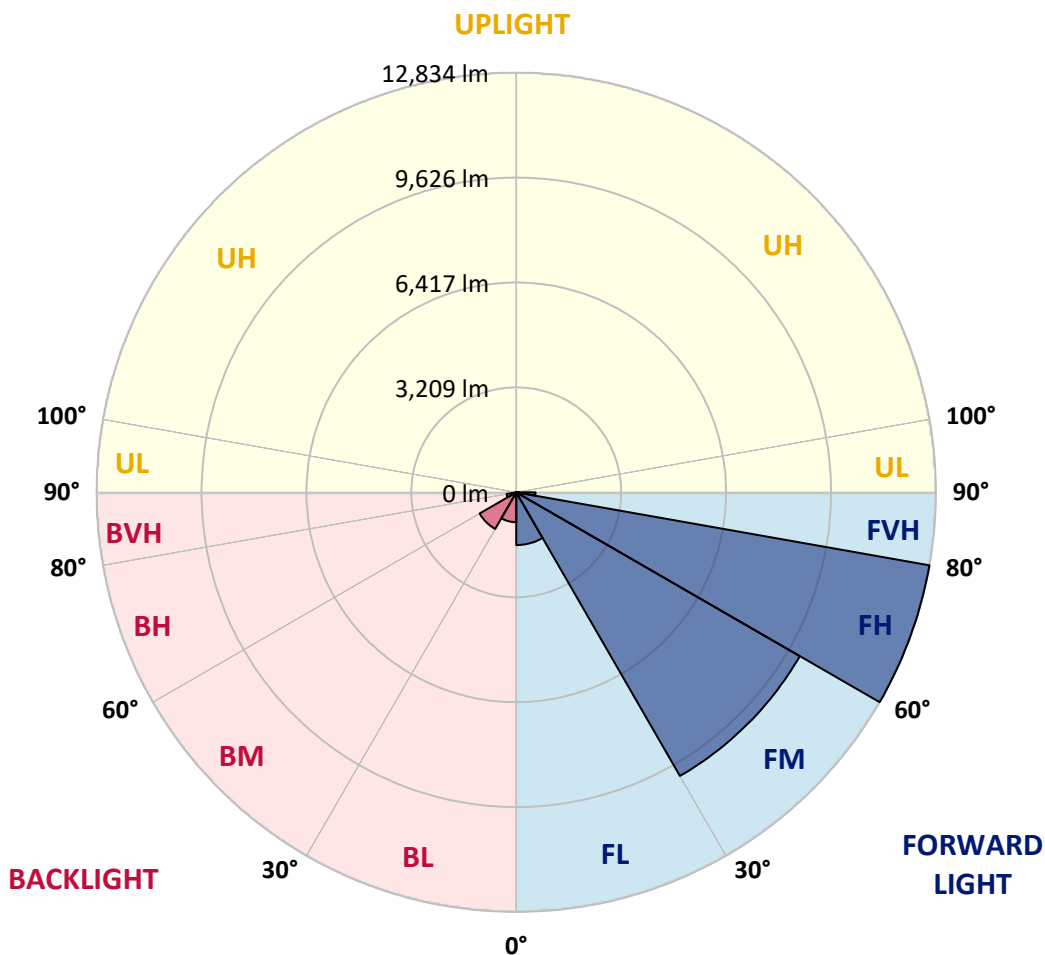


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.3	5.9			
FM (30°-60°)	10014.6	36.3			
FH (60°-80°)	12834.0	46.6			G5
FVH (80°-90°)	587.5	2.1			G4/750
BL (0°-30°)	913.6	3.3	B2/1000		
BM (30°-60°)	1293.1	4.7	B2/2500		
BH (60°-80°)	300.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9
2.5°	4493.7	4512.6	4532.8	4536.9	4570.6	4571.9	4620.5	4656.9	4693.3	4728.4	4740.6
5°	4032.5	4063.5	4099.9	4136.4	4207.8	4236.1	4354.8	4476.2	4592.2	4702.7	4756.8
7.5°	3540.3	3575.3	3626.5	3716.9	3796.5	3851.8	4039.2	4255.0	4470.8	4674.4	4791.8
10°	3091.2	3123.5	3177.4	3273.2	3396.0	3471.4	3723.7	4023.1	4340.0	4648.8	4844.4
12.5°	2805.2	2822.8	2852.4	2954.9	3065.5	3150.5	3447.2	3818.0	4232.1	4647.5	4929.4
15°	2752.6	2758.0	2733.7	2779.6	2865.9	2948.2	3249.0	3652.1	4149.9	4669.1	5040.0
17.5°	2836.2	2833.5	2752.6	2747.2	2816.0	2883.4	3151.8	3537.6	4091.8	4718.9	5182.9
20°	2963.0	2953.6	2813.3	2787.7	2860.5	2923.8	3145.1	3494.4	4070.2	4802.6	5356.9
22.5°	3131.6	3115.4	2895.5	2868.6	2946.9	3012.9	3228.7	3536.2	4089.1	4914.5	5559.2
25°	3340.6	3316.3	3037.2	3007.5	3087.1	3153.2	3378.4	3656.2	4145.8	5050.8	5815.5
27.5°	3576.7	3541.6	3263.8	3186.9	3277.3	3346.0	3578.0	3839.7	4234.8	5195.1	6129.7
30°	3799.1	3753.3	3502.4	3375.6	3486.3	3563.2	3793.8	4058.1	4377.7	5417.6	6559.9
32.5°	4023.1	3971.8	3715.6	3564.5	3664.3	3747.9	4016.3	4358.9	4646.1	5757.4	7131.7
35°	4538.2	4484.3	4170.1	3920.5	3919.2	3966.4	4327.9	4770.2	5000.8	6230.8	7814.1
37.5°	5405.4	5374.4	5075.0	4601.7	4474.9	4422.2	4752.7	5261.1	5510.7	6882.2	8584.2
40°	6354.9	6327.9	5992.1	5563.2	5370.4	5240.9	5362.3	5944.9	6230.8	7677.9	9370.5
42.5°	7427.0	7299.0	6700.2	6572.0	6399.4	6300.9	6191.7	6787.8	7115.5	8543.8	10150.0
45°	8400.8	8185.0	7408.2	7214.0	7174.9	7199.2	7259.8	7920.7	8110.8	9572.8	10926.9
47.5°	8980.7	8810.8	8214.7	8028.5	8017.7	8178.2	8636.8	9200.5	9102.1	10469.7	11610.6
50°	9532.3	9378.5	8883.6	8929.4	8979.4	9197.8	10199.9	10516.8	10007.1	11282.9	12237.7
52.5°	9978.7	9744.1	9485.1	9742.7	9988.1	10340.2	11812.9	11698.3	10649.0	11930.2	12774.5
55°	10236.3	10129.7	10255.2	10514.2	10975.4	11547.2	13335.6	12681.4	11118.4	12520.9	13131.9
57.5°	11180.3	10971.3	11220.9	11444.7	12046.2	12845.9	14639.7	13413.7	11456.8	12886.5	13214.2
60°	12322.7	12154.1	12301.1	12673.3	13485.3	14425.3	15858.9	14011.2	11633.5	13121.1	13001.1
62.5°	14140.7	13918.2	13826.5	14243.2	15319.4	16345.8	16784.1	14425.3	11594.4	13017.3	12270.1
65°	16576.3	16345.8	15935.8	16313.4	17682.3	18406.5	17818.5	14513.0	11324.7	12177.0	10422.4
67.5°	19071.4	18904.2	18553.5	19190.1	20425.5	20658.7	18912.3	14299.8	10456.2	9873.6	7363.7
70°	20719.5	20647.9	20875.9	22283.9	23385.8	23318.3	19915.6	13154.8	8149.9	6071.6	3642.7
72.5°	19531.3	19873.8	21556.9	24109.9	25455.9	24905.7	19400.5	10101.4	4658.3	2335.9	1053.3
73°	18546.7	18985.0	21250.8	24178.8	25619.1	25016.2	18967.5	9272.1	3970.4	1843.6	798.4
75°	12902.6	13440.7	17593.3	22518.6	24855.8	23834.9	15810.3	5675.2	1839.5	817.2	322.3
77.5°	6264.6	6662.3	9687.4	16270.2	19330.4	18622.3	9842.5	2114.7	830.8	511.1	148.4
80°	2338.6	2600.2	4205.1	8280.8	11170.9	11463.6	4329.2	799.7	553.0	411.4	75.5
82.5°	612.3	682.5	1550.9	3692.7	5725.1	5992.1	1364.8	403.3	404.6	338.5	45.8
85°	195.5	223.9	484.1	1657.5	2697.3	2368.3	356.0	195.5	294.0	252.2	25.6
87.5°	24.3	31.0	153.7	389.8	594.8	330.4	55.3	58.0	125.4	140.3	14.8
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°	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9	4741.9
2.5°	4752.7	4746.0	4747.3	4712.2	4689.3	4643.4	4596.3	4574.6	4551.7	4542.3	4551.7
5°	4777.0	4764.8	4729.7	4621.9	4507.2	4358.9	4219.9	4114.7	3982.6	3946.2	3983.9
7.5°	4814.7	4790.5	4687.9	4468.1	4213.2	3930.0	3611.7	3379.7	3189.6	3066.8	3111.4
10°	4870.0	4824.1	4617.8	4244.2	3788.4	3286.7	2834.9	2482.9	2233.4	2130.9	2126.8
12.5°	4963.1	4876.7	4531.5	3952.9	3269.2	2600.2	2008.1	1626.5	1424.1	1293.4	1290.7
15°	5065.6	4938.8	4422.2	3603.6	2665.0	1862.5	1293.4	1003.4	872.6	830.8	825.4
17.5°	5191.0	5010.2	4280.6	3173.4	2032.5	1234.0	844.3	760.6	755.2	751.2	751.2
20°	5348.8	5095.2	4098.5	2681.2	1441.8	824.0	717.5	722.9	725.6	720.2	721.6
22.5°	5532.2	5181.5	3881.5	2152.4	975.1	689.2	686.5	693.2	695.9	693.2	694.6
25°	5745.3	5281.3	3617.1	1598.2	704.0	654.1	660.8	670.2	677.0	677.0	677.0
27.5°	6009.6	5402.7	3298.8	1115.3	608.2	617.7	636.5	654.1	663.5	666.2	666.2
30°	6353.5	5553.8	2917.1	764.7	553.0	569.2	604.2	637.9	655.4	658.1	659.5
32.5°	6787.8	5723.7	2474.7	565.1	505.7	517.8	555.7	612.3	646.0	651.4	651.4
35°	7285.4	5920.6	1998.7	492.2	472.0	476.1	505.7	570.5	629.8	644.6	646.0
37.5°	7830.3	6114.9	1519.9	459.9	443.7	443.7	465.3	520.5	590.7	636.5	641.9
40°	8338.7	6232.1	1065.4	434.3	418.1	418.1	437.0	477.4	543.5	612.3	627.1
42.5°	8808.1	6272.6	741.8	410.0	393.8	397.9	414.1	446.4	496.3	565.1	578.6
45°	9290.9	6265.9	540.9	381.7	369.5	381.7	393.8	418.1	454.5	493.6	496.3
47.5°	9655.0	6209.2	428.9	354.7	346.6	362.7	373.6	389.8	410.0	407.3	407.3
50°	9996.3	6071.6	345.2	318.3	323.7	342.5	347.9	353.3	354.7	329.1	326.4
52.5°	10255.2	5857.2	276.5	279.2	300.8	319.6	314.2	306.1	292.7	261.7	256.3
55°	10341.5	5444.5	217.1	230.7	267.1	291.3	271.1	253.6	227.9	202.3	196.9
57.5°	10185.1	4911.8	176.7	179.4	225.2	245.5	222.5	202.3	174.0	152.4	148.4
60°	9853.4	4319.8	145.7	134.9	174.0	191.5	176.7	156.4	130.8	114.7	113.3
62.5°	9195.1	3688.6	120.1	105.2	132.2	147.0	137.6	122.7	101.2	90.4	89.1
65°	7811.4	2950.9	97.1	85.0	102.5	114.7	106.6	95.8	79.6	71.4	70.1
67.5°	5452.6	1994.6	79.6	70.1	81.0	90.4	83.7	78.2	63.3	62.0	63.3
70°	2629.9	961.6	66.0	56.6	63.3	70.1	67.4	63.3	60.6	70.1	81.0
72.5°	753.9	322.3	52.6	47.2	51.2	55.3	58.0	56.6	66.0	85.0	98.5
73°	579.9	260.3	49.9	44.5	48.5	53.9	56.6	55.3	67.4	86.4	98.5
75°	248.2	125.4	37.7	36.4	40.4	47.2	49.9	49.9	67.4	87.7	94.4
77.5°	112.0	67.4	24.3	28.3	35.0	37.7	41.8	41.8	53.9	67.4	67.4
80°	63.3	36.4	18.9	21.6	25.6	25.6	25.6	22.9	24.3	27.0	29.7
82.5°	40.4	24.3	14.8	17.5	16.2	13.5	10.8	10.8	9.4	10.8	13.5
85°	22.9	13.5	13.5	10.8	6.7	5.4	6.7	5.4	1.3	0.0	1.3
87.5°	13.5	8.1	4.0	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)