

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: P322851

Luminaire Tested: **GAN-SA7C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33022 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

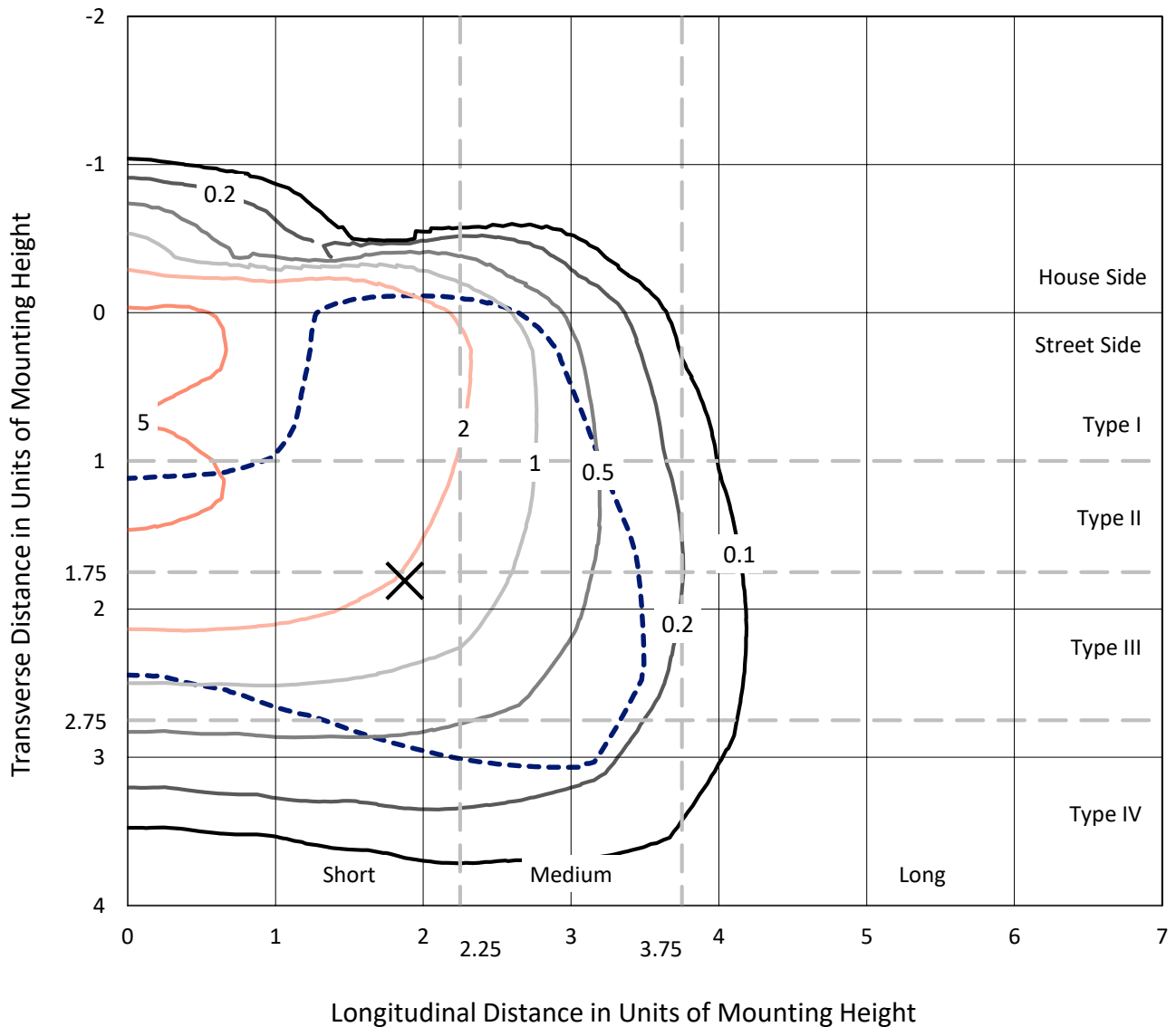
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

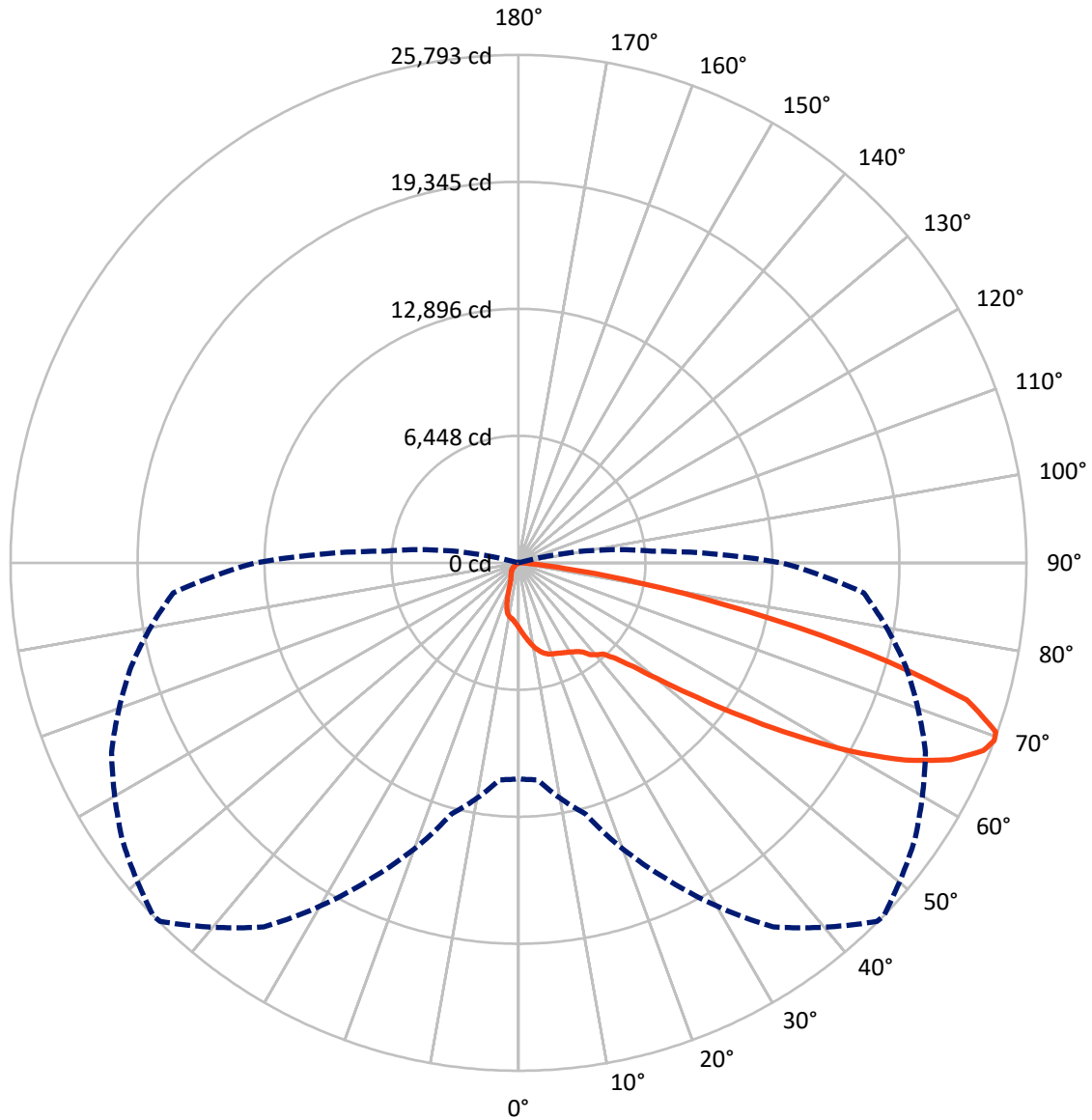
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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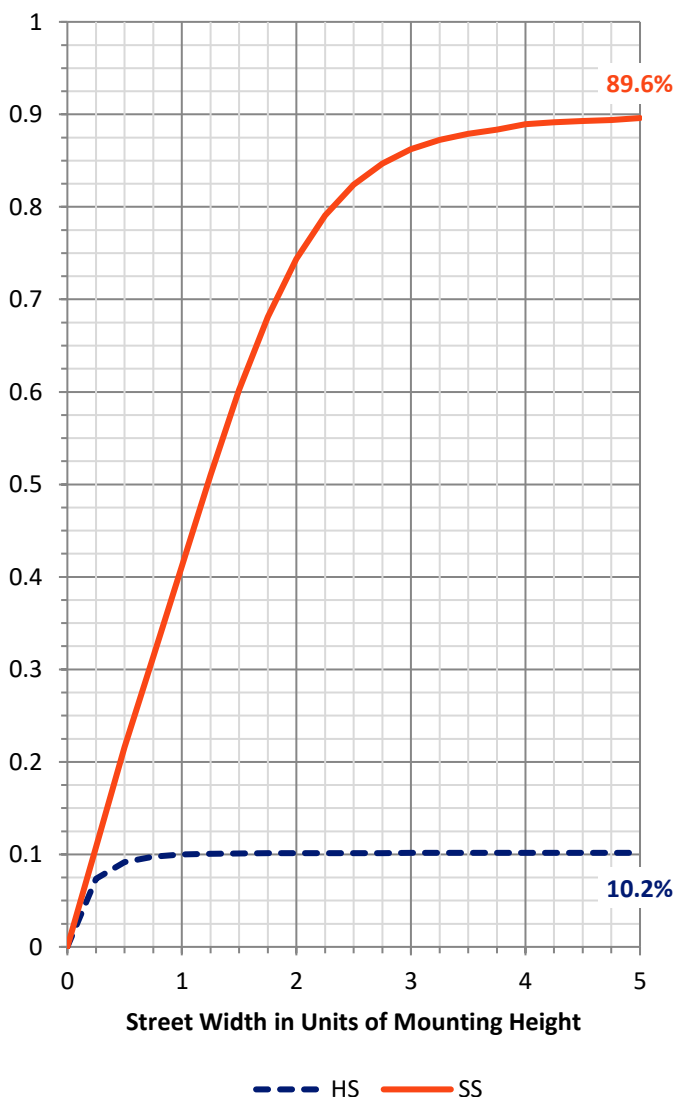
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.9	0.0	3388.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29633.0	0.0	29633.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	33022.0	0.0	33022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	1.0
10°-20°	999.1	3.0
20°-30°	1571.3	4.8
30°-40°	2253.2	6.8
40°-50°	3894.4	11.8
50°-60°	7693.7	23.3
60°-70°	10752.6	32.6
70°-80°	5194.7	15.7
80°-90°	333.9	1.0
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°	33022.0	100.0
0°-180°	33022.0	100.0

Coefficient of Utilization

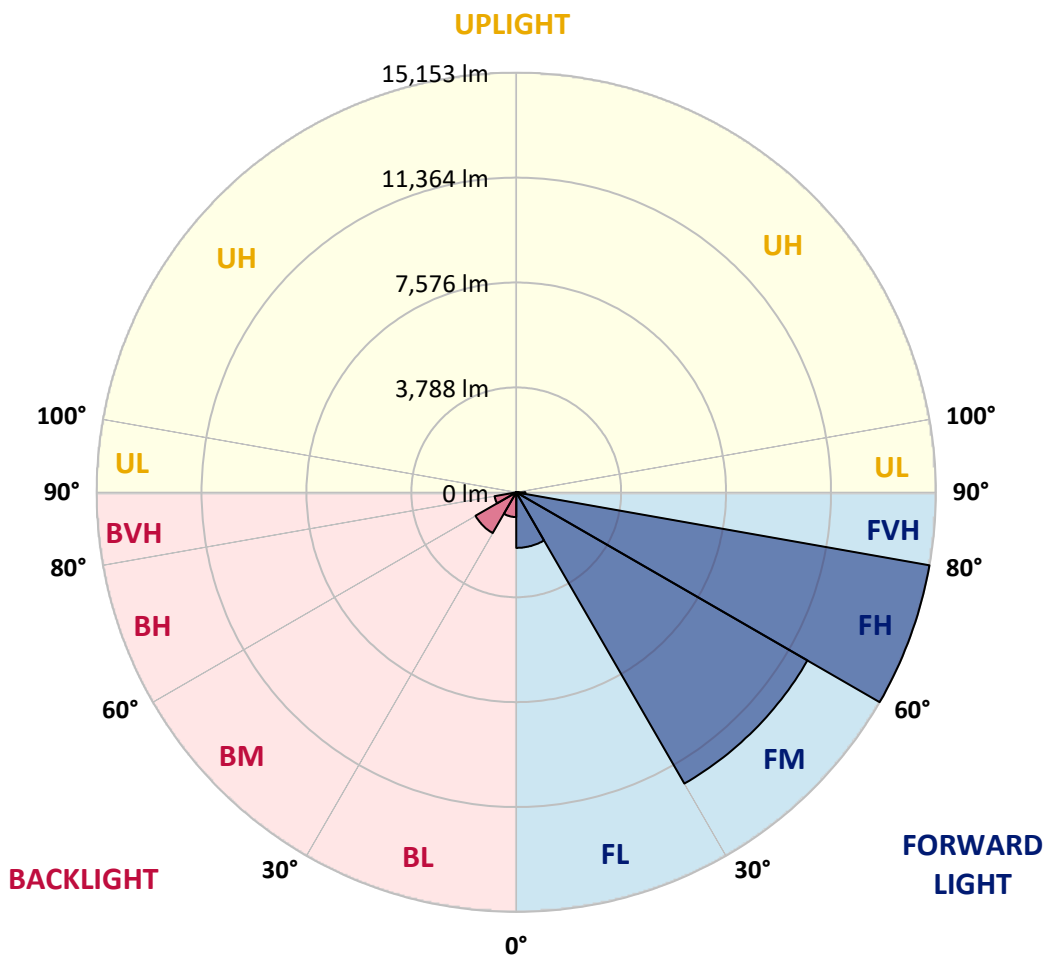


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.5	6.1			
FM (30°-60°)	12142.9	36.8			
FH (60°-80°)	15152.6	45.9			G5
FVH (80°-90°)	331.1	1.0			G3/500
BL (0°-30°)	893.2	2.7	B2/1000		
BM (30°-60°)	1698.3	5.1	B2/2500		
BH (60°-80°)	794.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	35°	45°	46°	55°	65°	75°	85°
0°	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7
2.5°	3675.6	3671.0	3649.3	3640.0	3587.4	3556.4	3544.0	3505.3	3449.6	3393.8	3331.9
5°	4093.7	4092.1	4051.9	4013.1	3914.1	3821.2	3804.1	3714.3	3588.9	3471.3	3353.6
7.5°	4521.0	4500.9	4460.6	4386.3	4242.3	4093.7	4079.7	3952.8	3774.7	3604.4	3435.6
10°	4883.3	4870.9	4818.3	4705.2	4536.5	4367.7	4350.7	4194.3	3993.0	3784.0	3568.8
12.5°	5165.1	5155.8	5086.1	4945.2	4765.6	4590.7	4567.4	4428.1	4212.9	3979.1	3725.2
15°	5336.9	5332.3	5247.1	5096.9	4920.4	4768.7	4748.6	4626.3	4426.5	4181.9	3895.5
17.5°	5377.2	5378.7	5290.5	5138.8	4993.2	4884.8	4869.4	4776.5	4609.2	4366.2	4065.8
20°	5287.4	5306.0	5227.0	5095.4	5005.6	4948.3	4935.9	4880.2	4739.3	4510.1	4202.0
22.5°	5160.4	5169.7	5115.5	5027.3	4990.1	5001.0	4994.8	4963.8	4844.6	4634.0	4336.7
25°	5083.0	5083.0	5050.5	4976.2	5001.0	5067.5	5069.1	5062.9	4968.4	4785.7	4500.9
27.5°	5079.9	5070.6	5033.5	4977.7	5045.9	5148.0	5154.2	5196.0	5137.2	4970.0	4705.2
30°	5203.8	5192.9	5114.0	5041.2	5127.9	5237.8	5253.3	5344.7	5315.3	5169.7	4932.8
32.5°	5493.3	5454.6	5279.6	5160.4	5225.5	5357.1	5377.2	5522.7	5569.2	5415.9	5152.7
35°	5889.7	5767.4	5515.0	5386.5	5392.7	5530.5	5549.0	5762.7	5900.5	5641.9	5323.0
37.5°	6436.2	6375.8	5965.5	5621.8	5649.7	5858.7	5912.9	6145.1	6106.4	5765.8	5516.5
40°	7634.6	7540.1	7103.5	6281.4	5895.9	6125.0	6142.0	6265.9	6269.0	6046.0	5919.1
42.5°	9266.5	9227.8	8767.9	7478.2	6380.5	6303.1	6334.0	6543.0	6776.8	6637.5	6631.3
45°	11073.3	11053.2	10565.5	9066.7	7360.5	6886.8	6925.5	7205.7	7653.2	7684.1	7880.8
47.5°	12527.2	12517.9	12237.6	10839.5	8860.8	7876.1	7888.5	8185.8	8972.3	9360.9	9675.2
50°	13852.5	13897.4	13676.0	12757.9	10904.6	9425.9	9396.5	9594.7	10858.1	11494.5	11884.6
52.5°	15694.9	15758.4	15137.6	14547.7	13048.9	11348.9	11325.7	11533.2	13124.8	13601.7	13671.3
55°	17322.2	17213.8	16723.0	16552.7	15664.0	13724.0	13717.8	13900.5	15317.2	15520.0	15648.5
57.5°	18040.6	17998.8	18235.7	18625.8	18402.9	16531.0	16517.1	16377.7	17278.8	17300.5	17695.3
60°	18494.2	18545.3	19271.5	20474.5	21030.3	19551.7	19461.9	18611.9	19152.3	19104.3	19526.9
62.5°	18153.6	18254.3	19561.0	21566.0	22996.6	22188.4	22061.5	20658.7	20753.2	20587.5	20980.8
65°	16345.2	16501.6	18642.9	21360.1	23972.1	24249.2	24120.7	22465.6	22024.3	21751.8	21533.5
67.5°	13271.9	13364.8	15600.5	19568.8	23532.4	25478.5	25452.2	24049.5	22984.3	21555.2	19861.4
69°	10968.0	11059.4	13211.5	17682.9	22564.7	25741.8	25792.8	24557.3	22801.6	20359.9	17597.8
70°	9289.7	9387.2	11392.3	16066.5	21442.2	25619.4	25710.8	24509.3	22278.2	18975.8	15611.3
72.5°	4872.4	4956.1	7013.7	11068.7	17480.1	23524.6	23801.8	22437.7	18884.4	13781.3	9230.9
75°	1531.3	1579.2	2738.9	5785.9	11968.2	18291.4	18354.9	17600.9	13409.7	7580.4	3844.4
77.5°	583.7	569.8	911.9	2132.0	6050.7	11517.7	11906.3	10999.0	7036.9	2680.1	887.2
80°	314.3	315.8	473.8	882.5	2588.7	5919.1	6247.3	5330.7	2500.5	836.1	204.4
82.5°	136.2	142.4	266.3	467.6	1189.1	2183.1	2347.2	1953.9	955.3	562.0	75.9
85°	29.4	32.5	128.5	253.9	484.6	613.1	642.5	633.2	608.5	436.6	29.4
87.5°	0.0	0.0	57.3	91.3	122.3	139.3	122.3	159.5	336.0	294.2	15.5
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°	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7	3308.7
2.5°	3311.8	3283.9	3235.9	3183.3	3146.1	3107.4	3076.4	3062.5	3047.0	3036.2	3050.1
5°	3305.6	3251.4	3158.5	3068.7	3003.7	2951.0	2907.7	2890.6	2873.6	2861.2	2859.7
7.5°	3359.8	3283.9	3141.5	3009.9	2909.2	2838.0	2779.2	2754.4	2734.3	2725.0	2717.2
10°	3463.5	3366.0	3175.5	3003.7	2873.6	2752.8	2625.9	2528.3	2464.9	2435.4	2424.6
12.5°	3598.2	3475.9	3240.6	3036.2	2847.3	2615.1	2345.6	2113.4	1963.2	1913.7	1884.3
15°	3756.1	3604.4	3325.7	3078.0	2751.3	2327.1	1870.3	1566.9	1427.5	1399.6	1368.7
17.5°	3907.9	3740.7	3427.9	3085.7	2540.7	1859.5	1370.2	1164.3	1110.1	1128.7	1133.3
20°	4041.0	3875.4	3528.5	3017.6	2158.3	1395.0	1060.6	1009.5	1029.6	1065.2	1071.4
22.5°	4175.7	4005.4	3621.4	2838.0	1669.0	1059.0	955.3	967.7	987.8	1023.4	1029.6
25°	4339.8	4163.3	3708.1	2508.2	1252.6	901.1	907.3	925.9	946.0	978.5	981.6
27.5°	4528.7	4363.1	3765.4	2079.3	929.0	828.3	848.5	876.3	896.5	927.4	933.6
30°	4779.5	4626.3	3784.0	1635.0	778.8	763.3	772.6	806.7	836.1	863.9	868.6
32.5°	5014.9	4886.4	3722.1	1234.0	721.5	702.9	702.9	723.0	757.1	783.4	789.6
35°	5231.6	5148.0	3523.9	902.6	678.1	647.2	631.7	631.7	653.4	675.1	681.2
37.5°	5518.1	5515.0	3203.4	720.0	636.3	600.7	568.2	543.4	535.7	540.4	543.4
40°	6008.9	6013.5	2785.4	645.6	600.7	552.7	503.2	458.3	416.5	402.6	401.0
42.5°	6775.3	6705.6	2347.2	610.0	569.8	503.2	428.9	368.5	303.5	283.3	281.8
45°	7992.2	7578.8	1882.7	577.5	537.3	447.5	354.6	272.5	219.9	204.4	204.4
47.5°	9765.0	8726.1	1458.5	541.9	493.9	384.0	267.9	196.6	161.0	153.3	154.8
50°	11598.2	9850.2	1117.9	497.0	441.3	317.4	198.2	142.4	122.3	122.3	123.9
52.5°	13223.9	10673.9	871.7	449.0	376.2	249.3	150.2	111.5	102.2	100.6	102.2
55°	14745.8	11204.9	667.3	393.3	298.8	185.8	114.6	91.3	85.2	82.1	80.5
57.5°	16213.6	11468.1	500.1	317.4	216.8	134.7	91.3	77.4	71.2	66.6	65.0
60°	17190.6	11254.5	343.7	233.8	150.2	97.5	75.9	66.6	58.8	54.2	52.6
62.5°	17741.8	10670.8	221.4	168.8	106.8	72.8	60.4	55.7	44.9	40.3	40.3
65°	17518.8	9707.7	154.8	120.8	77.4	54.2	44.9	44.9	32.5	26.3	24.8
67.5°	15524.6	8201.3	117.7	89.8	55.7	40.3	34.1	38.7	20.1	12.4	12.4
69°	13357.0	6797.0	100.6	74.3	46.4	32.5	29.4	35.6	13.9	9.3	7.7
70°	11609.0	5863.3	91.3	65.0	38.7	27.9	26.3	34.1	13.9	7.7	6.2
72.5°	6945.6	3270.0	69.7	46.4	24.8	21.7	21.7	38.7	13.9	7.7	6.2
75°	2807.0	1151.9	51.1	32.5	18.6	18.6	26.3	49.5	12.4	6.2	4.6
77.5°	636.3	252.4	29.4	20.1	12.4	18.6	31.0	38.7	7.7	3.1	0.0
80°	154.8	61.9	18.6	12.4	7.7	13.9	23.2	21.7	1.5	0.0	0.0
82.5°	51.1	21.7	7.7	6.2	1.5	4.6	10.8	6.2	0.0	0.0	0.0
85°	21.7	12.4	3.1	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.9	4.6	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)