

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: P322194

Luminaire Tested: **GAN-SA0A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30613 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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

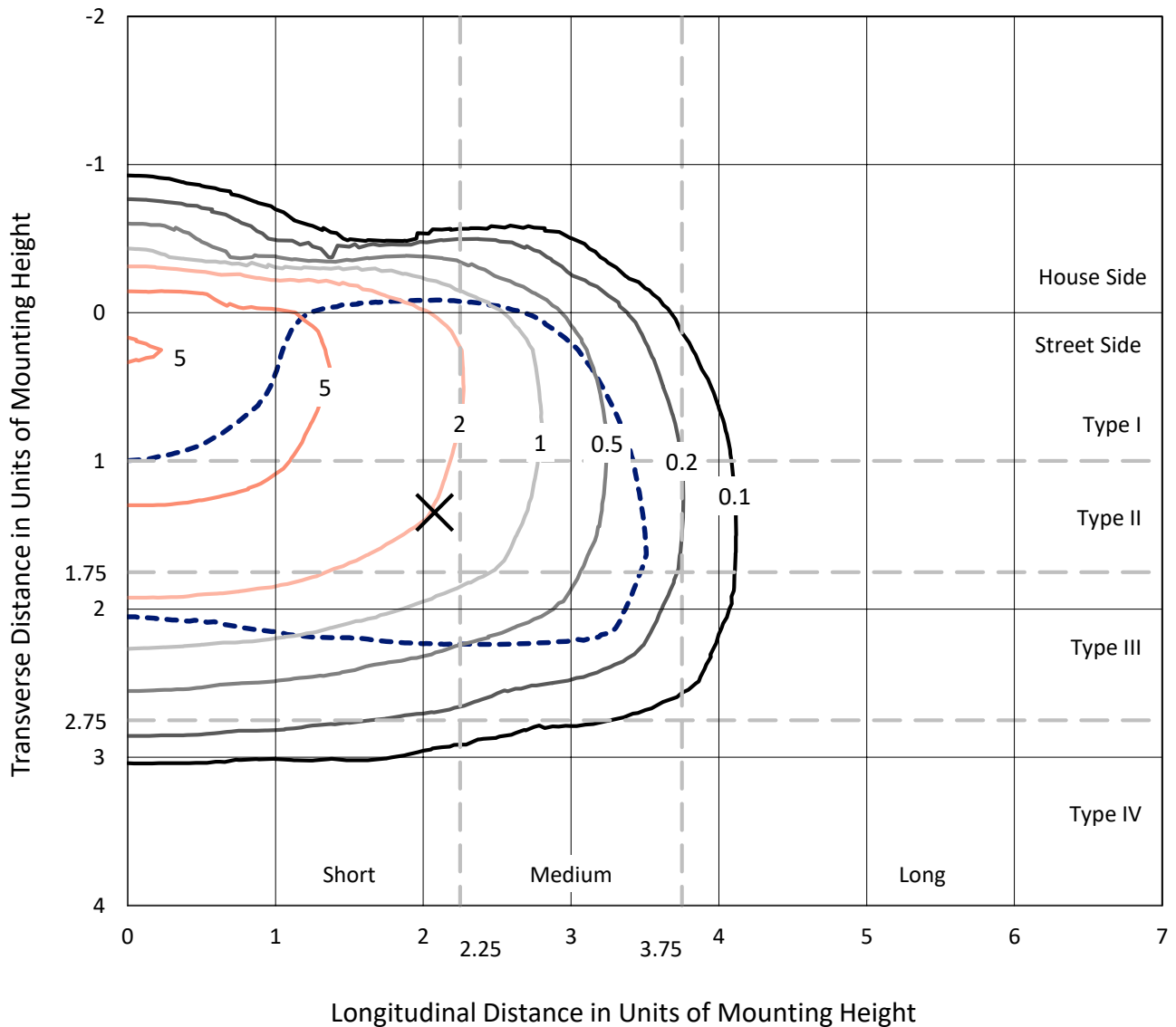




REPORT NUMBER: P322194
 CATALOG NUMBER: GAN-SA0A-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

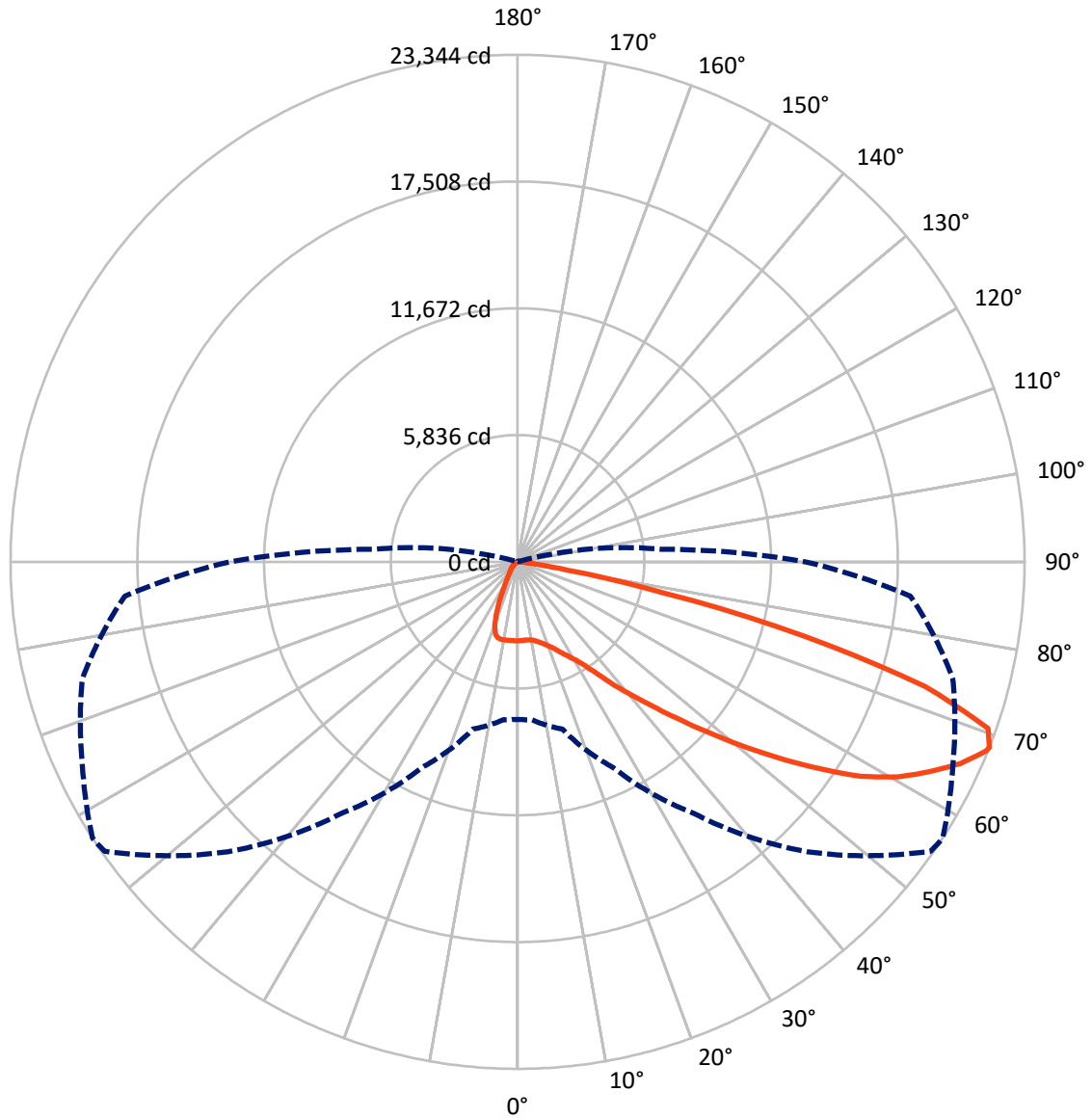
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

REPORT NUMBER: P322194
CATALOG NUMBER: GAN-SA0A-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P322194
 CATALOG NUMBER: GAN-SA0A-730-U-T3-HSS

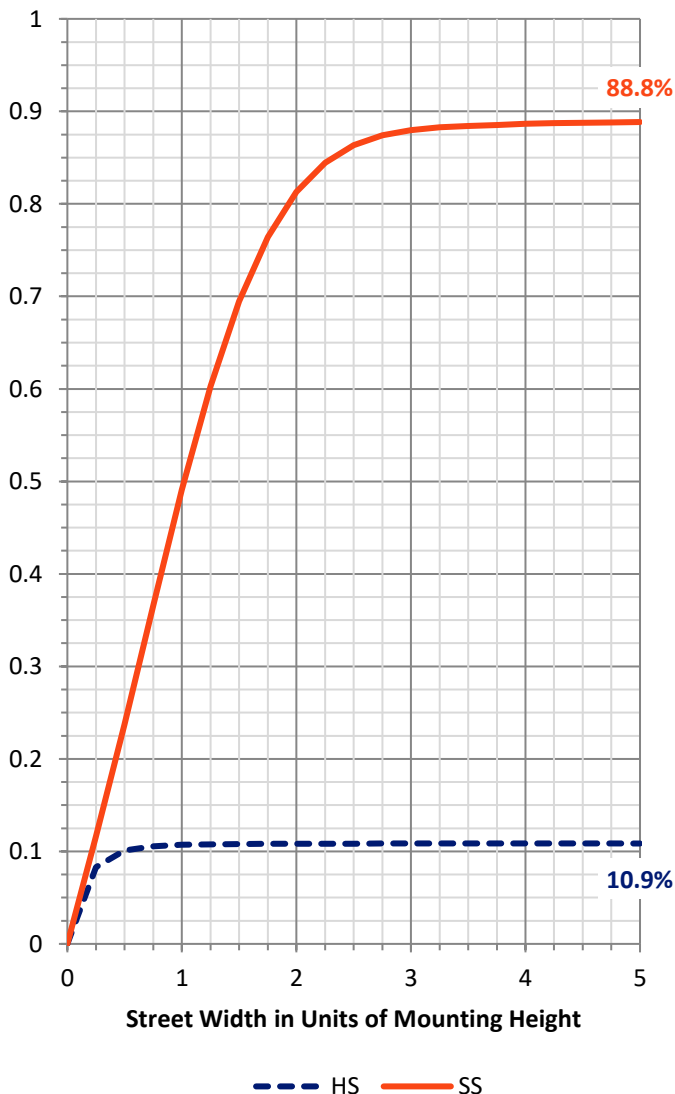
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3356.9	0.0	3356.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27256.1	0.0	27256.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	30613.0	0.0	30613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	1.1
10°-20°	943.3	3.1
20°-30°	1627.4	5.3
30°-40°	2808.8	9.2
40°-50°	4804.5	15.7
50°-60°	7686.7	25.1
60°-70°	8881.1	29.0
70°-80°	3393.6	11.1
80°-90°	127.2	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°	30613.0	100.0
0°-180°	30613.0	100.0

Coefficient of Utilization

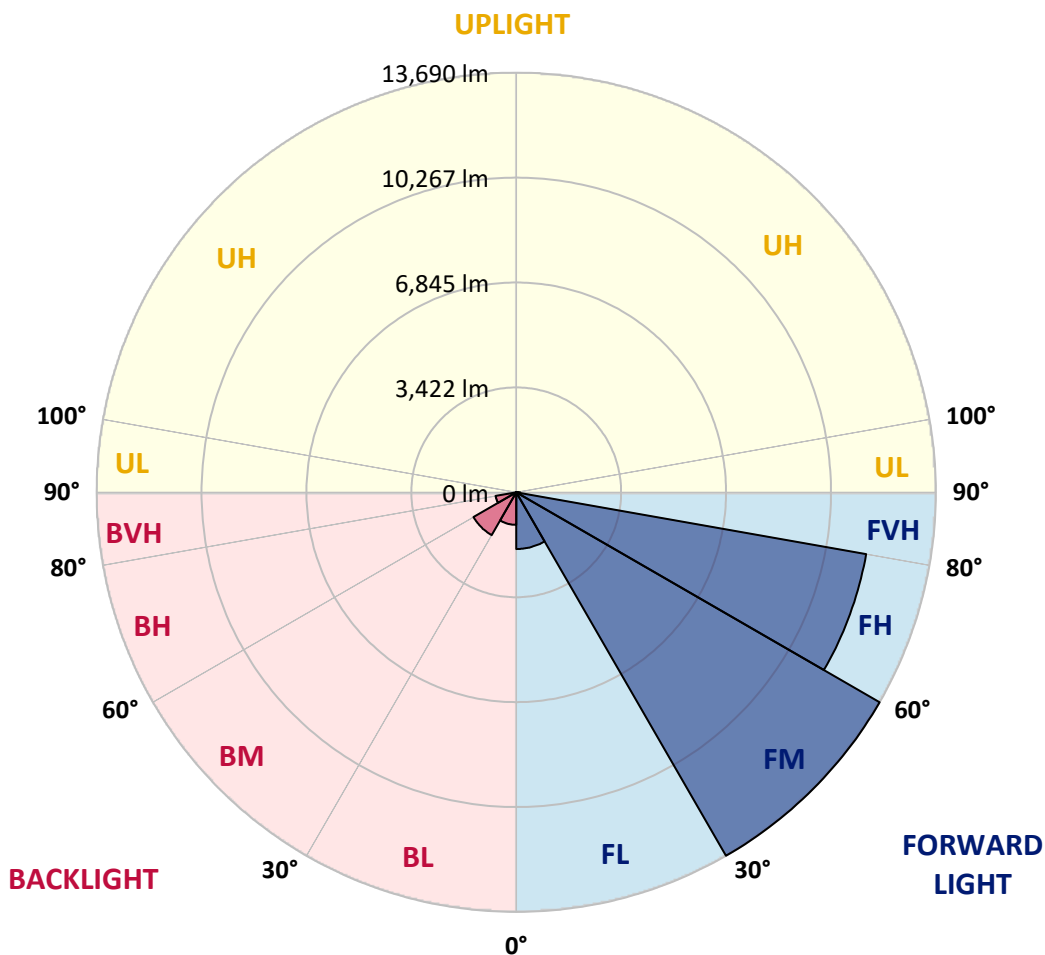


REPORT NUMBER: P322194
 CATALOG NUMBER: GAN-SA0A-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1850.3	6.0			
FM (30°-60°)	13689.9	44.7			
FH (60°-80°)	11591.1	37.9			G4/12000
FVH (80°-90°)	124.9	0.4			G2/225
BL (0°-30°)	1060.9	3.5	B3/2500		
BM (30°-60°)	1610.0	5.3	B2/2500		
BH (60°-80°)	683.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.3	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-G4
 Type III Short





REPORT NUMBER: P322194

CATALOG NUMBER: GAN-SAOA-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6
2.5°	3552.2	3568.2	3579.7	3587.0	3595.7	3614.5	3620.3	3628.9	3633.3	3633.3	3643.4
5°	3411.8	3429.2	3453.8	3474.1	3514.6	3566.7	3604.3	3618.8	3644.9	3668.0	3681.1
7.5°	3281.5	3301.8	3330.8	3378.5	3448.0	3532.0	3610.1	3630.4	3681.1	3730.3	3754.9
10°	3197.6	3213.5	3251.1	3319.2	3410.4	3527.6	3637.6	3662.2	3749.1	3831.6	3877.9
12.5°	3168.6	3183.1	3222.2	3298.9	3411.8	3549.3	3701.3	3737.5	3864.9	3985.0	4050.2
15°	3210.6	3213.5	3255.5	3327.9	3439.3	3602.9	3807.0	3850.4	4011.1	4167.4	4248.5
17.5°	3372.7	3359.7	3381.4	3413.3	3501.6	3673.8	3918.5	3983.6	4197.8	4381.7	4458.4
20°	3778.0	3778.0	3728.8	3642.0	3643.4	3783.8	4069.0	4142.8	4404.8	4617.6	4687.1
22.5°	4471.4	4458.4	4359.9	4147.2	3951.7	3973.5	4252.8	4348.4	4653.8	4881.1	4904.2
25°	5305.2	5289.3	5137.3	4837.6	4498.9	4280.3	4501.8	4611.8	4950.5	5151.7	5104.0
27.5°	6188.2	6175.1	6024.6	5652.6	5170.6	4769.6	4798.5	4902.8	5253.1	5451.4	5299.4
30°	7043.7	7048.0	6898.9	6516.8	5971.0	5393.5	5174.9	5235.7	5546.9	5748.1	5531.0
32.5°	7857.2	7863.0	7734.1	7307.1	6797.6	6118.7	5696.0	5680.1	5888.5	6086.8	5837.9
35°	8582.4	8596.9	8508.6	8177.1	7637.1	6926.4	6372.0	6334.4	6373.5	6597.8	6308.3
37.5°	9281.5	9290.2	9223.6	8944.3	8492.6	7813.7	7226.0	7172.5	7088.5	7260.8	6929.3
40°	10047.3	10025.6	9948.8	9695.5	9307.6	8793.7	8143.8	8051.1	7904.9	8058.4	7745.7
42.5°	10759.5	10734.8	10747.9	10461.3	10134.1	9801.2	9213.5	9054.3	8968.9	9145.5	8747.4
45°	11649.7	11636.7	11680.1	11431.1	11166.2	10924.5	10439.6	10265.9	10228.2	10435.2	9959.0
47.5°	12528.3	12560.2	12694.8	12589.1	12482.0	12269.2	11738.0	11659.8	11683.0	11933.4	11237.1
50°	13260.8	13298.4	13667.5	13789.1	13944.0	13819.5	13286.8	13239.1	13330.3	13556.1	12612.3
52.5°	13790.6	13867.3	14326.2	14886.4	15450.9	15534.8	15003.6	14960.2	15083.2	15118.0	13674.8
55°	14158.2	14226.3	14745.9	15770.8	16920.1	17282.0	16952.0	16784.1	16760.9	16417.8	14792.3
57.5°	14223.4	14216.1	14963.1	16342.6	18072.4	19006.0	18797.6	18632.5	18157.8	17619.3	16073.3
60°	13855.7	13897.7	14764.8	16540.9	18796.1	20310.2	20326.2	20111.9	19372.2	18787.4	17315.3
62.5°	12723.7	12894.6	13770.3	16021.2	18787.4	20835.7	21446.5	21283.0	20398.5	19744.2	18574.6
65°	10888.3	10949.1	11784.3	14240.8	17518.0	20615.7	22455.5	22394.7	21323.5	20673.6	19221.7
67.5°	7951.3	7819.5	8696.7	11214.0	14831.3	19333.2	23179.2	23255.9	22037.1	20864.6	18532.7
68°	7256.4	7295.5	7978.8	10465.6	14127.8	18880.1	23227.0	23344.2	22108.1	20740.1	18156.3
70°	4325.2	4400.5	5009.9	7205.8	10747.9	16316.5	22711.7	22979.5	21685.4	19456.2	15704.2
72.5°	1104.5	1194.2	1770.3	3225.1	6139.0	11496.2	19172.5	19625.6	18828.0	15783.8	10601.7
75°	454.5	477.7	632.6	1062.5	2287.1	5179.2	12636.9	13606.7	13052.3	9449.4	4791.3
77.5°	314.1	330.0	406.8	589.1	990.1	1755.8	6195.4	6896.0	6212.8	3225.1	1045.1
80°	225.8	238.8	291.0	392.3	568.9	626.8	2019.3	2334.9	1854.3	707.8	259.1
82.5°	134.6	144.8	217.1	279.4	346.0	299.6	502.3	570.3	537.0	351.7	115.8
85°	66.6	78.2	146.2	199.8	186.7	125.9	153.4	170.8	211.3	214.2	62.2
87.5°	4.3	8.7	85.4	120.1	52.1	29.0	44.9	55.0	75.3	105.7	26.1
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°	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6	3637.6
2.5°	3647.8	3649.2	3639.1	3634.7	3637.6	3620.3	3613.0	3615.9	3615.9	3620.3	3613.0
5°	3684.0	3684.0	3666.6	3643.4	3630.4	3597.1	3575.4	3569.6	3565.3	3562.4	3556.6
7.5°	3762.1	3753.4	3723.0	3672.4	3628.9	3556.6	3501.6	3472.6	3458.1	3452.3	3448.0
10°	3888.1	3872.1	3821.5	3727.4	3627.5	3498.7	3378.5	3293.1	3222.2	3193.2	3175.9
12.5°	4057.4	4034.3	3948.8	3792.5	3617.4	3380.0	3119.4	2869.0	2635.9	2540.4	2492.6
15°	4252.8	4219.5	4084.9	3847.5	3558.0	3112.2	2546.2	2107.6	1784.8	1663.2	1611.1
17.5°	4451.1	4407.7	4203.6	3882.3	3380.0	2557.8	1786.2	1349.1	1133.4	1075.5	1055.2
20°	4650.9	4587.2	4306.4	3856.2	2977.6	1844.1	1178.3	985.8	923.5	906.2	900.4
22.5°	4840.5	4742.1	4399.0	3754.9	2358.0	1237.6	932.2	871.4	851.1	841.0	838.1
25°	5005.5	4868.0	4480.1	3442.2	1669.0	935.1	839.6	819.3	793.2	774.4	775.9
27.5°	5160.4	4994.0	4529.3	2926.9	1113.1	799.0	777.3	749.8	702.0	674.5	674.5
30°	5347.2	5161.9	4565.5	2252.3	819.3	706.4	689.0	647.0	581.9	545.7	545.7
32.5°	5628.0	5416.6	4542.3	1580.7	678.9	621.0	580.5	522.6	451.6	416.9	415.4
35°	6057.9	5810.4	4377.3	1036.4	599.3	539.9	474.8	403.9	341.6	312.7	311.2
37.5°	6636.9	6337.3	4006.8	741.1	537.0	464.7	386.5	308.3	262.0	243.2	241.7
40°	7388.2	6949.6	3477.0	600.7	479.1	392.3	298.2	238.8	207.0	192.5	194.0
42.5°	8290.0	7605.3	2841.5	518.2	422.7	322.8	233.1	188.2	167.9	157.8	154.9
45°	9291.7	8252.3	2175.6	461.8	366.2	260.6	182.4	149.1	133.2	127.4	127.4
47.5°	10393.2	8882.0	1592.3	412.5	305.4	201.2	146.2	121.6	108.6	104.2	102.8
50°	11393.5	9319.2	1147.9	360.4	250.4	159.2	118.7	101.3	92.6	86.9	86.9
52.5°	12227.2	9456.7	845.4	304.0	202.7	127.4	98.4	86.9	78.2	73.8	73.8
55°	12961.1	9400.2	628.2	250.4	163.6	104.2	84.0	73.8	66.6	62.2	62.2
57.5°	13664.6	9217.8	469.0	204.1	131.7	84.0	70.9	62.2	55.0	52.1	52.1
60°	14239.3	8913.9	348.9	165.0	105.7	68.0	59.3	50.7	44.9	40.5	40.5
62.5°	14705.4	8578.0	256.2	136.1	84.0	53.6	46.3	42.0	33.3	29.0	29.0
65°	14708.3	8020.7	192.5	112.9	65.1	42.0	34.7	33.3	21.7	17.4	15.9
67.5°	13644.4	6914.8	147.6	97.0	50.7	31.8	26.1	27.5	11.6	7.2	5.8
68°	13257.9	6634.0	139.0	95.5	47.8	30.4	24.6	27.5	10.1	5.8	4.3
70°	11177.8	5277.7	111.5	92.6	42.0	23.2	20.3	27.5	8.7	4.3	2.9
72.5°	7149.3	3063.0	82.5	73.8	31.8	17.4	13.0	24.6	8.7	2.9	1.4
75°	3042.7	949.6	56.5	52.1	18.8	13.0	8.7	15.9	5.8	1.4	0.0
77.5°	641.3	214.2	33.3	31.8	13.0	8.7	5.8	4.3	1.4	0.0	0.0
80°	165.0	62.2	17.4	15.9	7.2	4.3	2.9	0.0	0.0	0.0	0.0
82.5°	52.1	24.6	10.1	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	14.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	4.3	1.4	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)