

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: P322212

Luminaire Tested: **GAN-SA8C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322212
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-SA8C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 37619 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

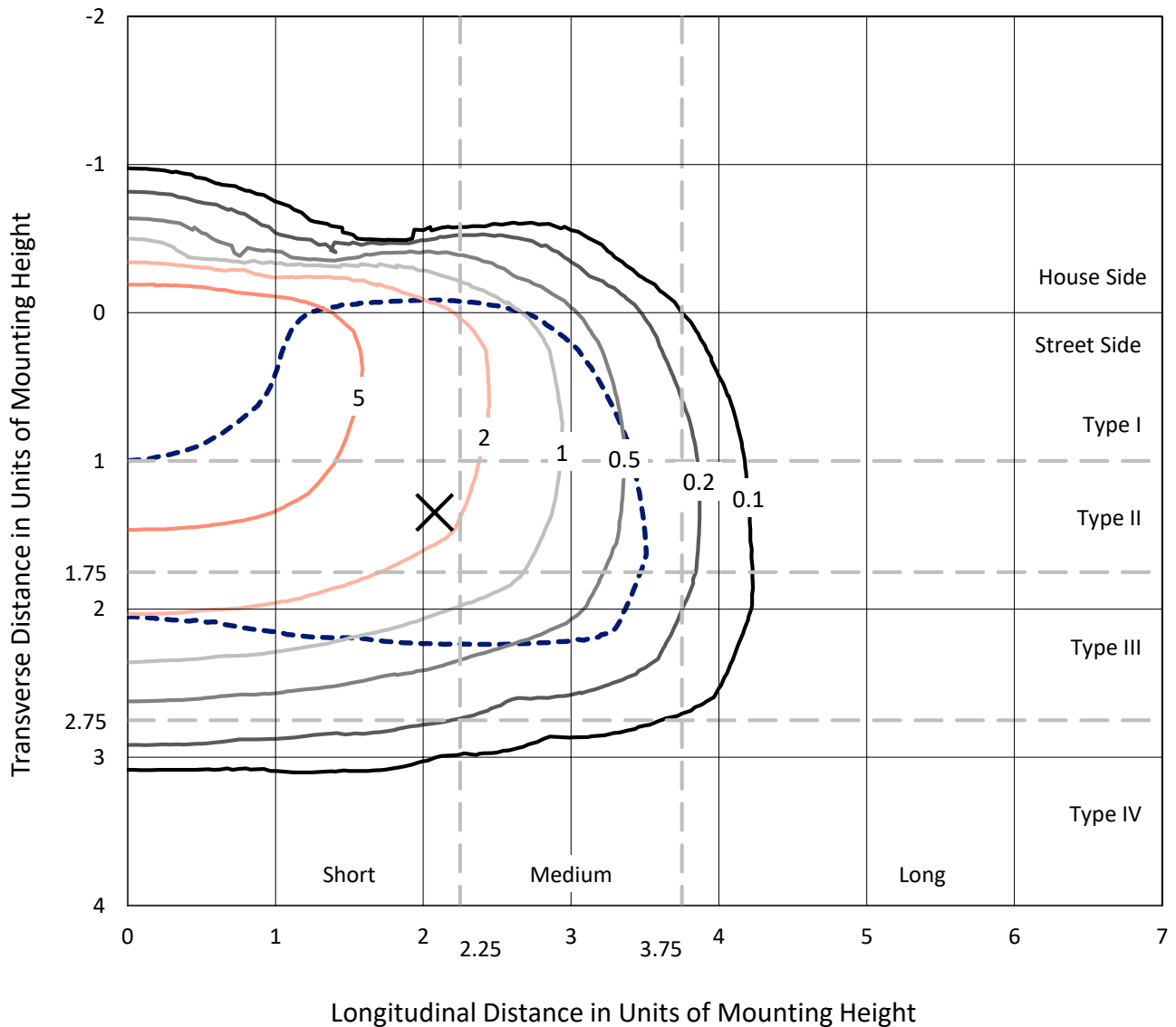
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

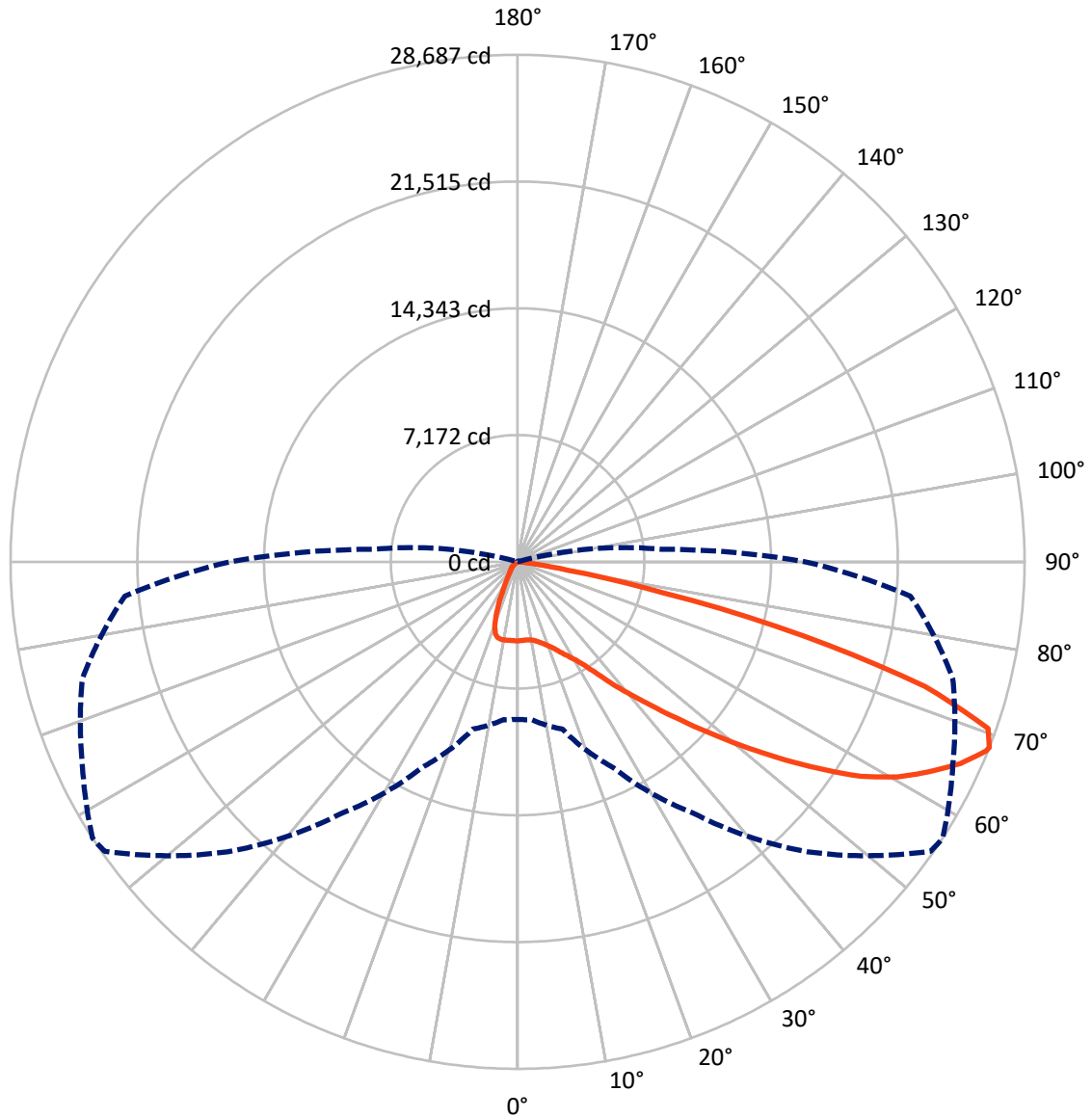
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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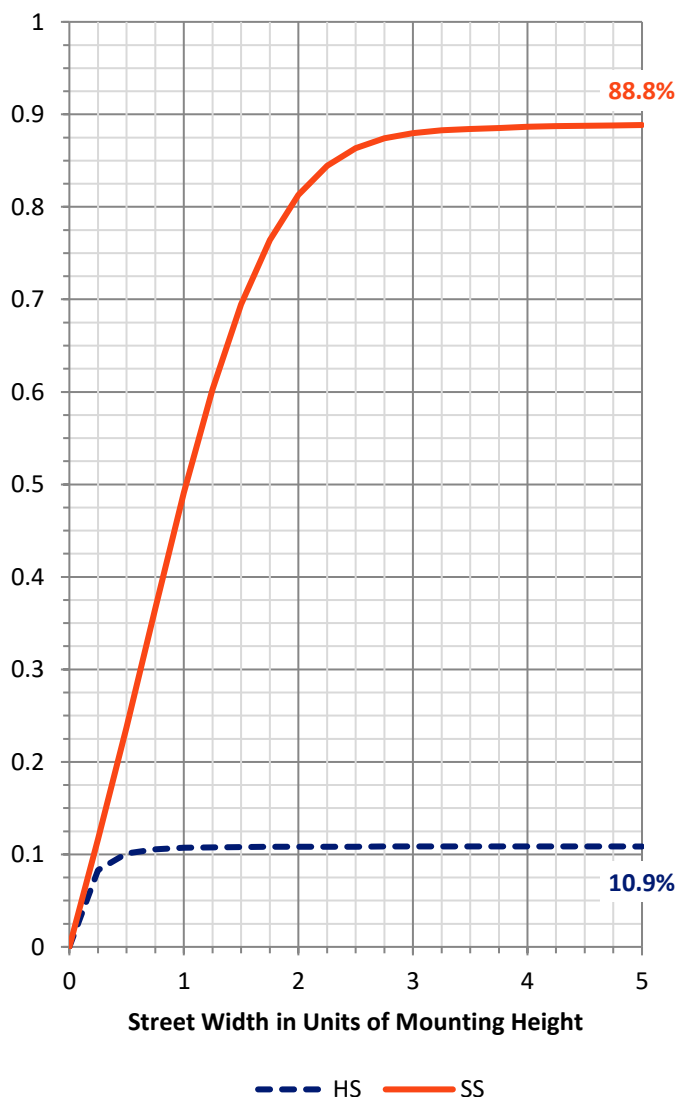
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4125.1	0.0	4125.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33493.9	0.0	33493.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	37619.0	0.0	37619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.3	1.1
10°-20°	1159.2	3.1
20°-30°	1999.8	5.3
30°-40°	3451.6	9.2
40°-50°	5904.0	15.7
50°-60°	9445.8	25.1
60°-70°	10913.6	29.0
70°-80°	4170.3	11.1
80°-90°	156.3	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°	37619.0	100.0
0°-180°	37619.0	100.0

Coefficient of Utilization



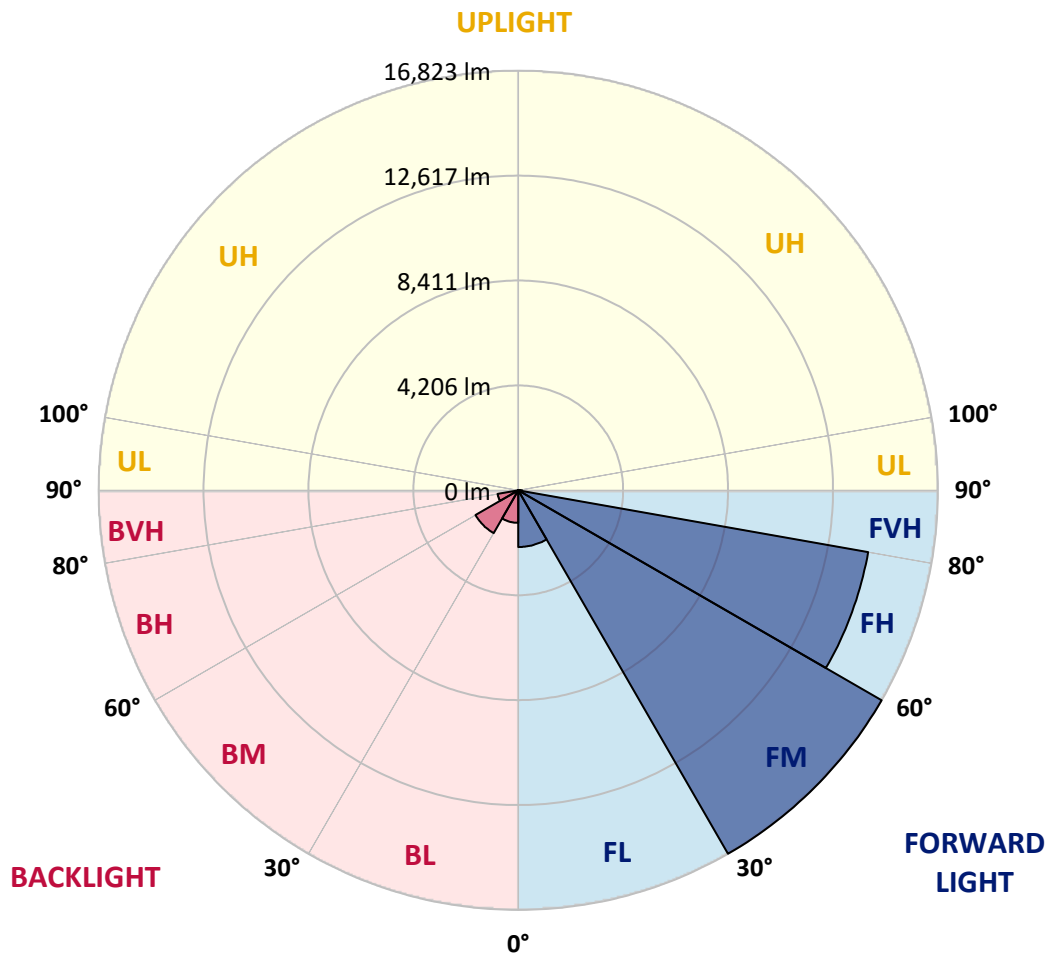
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.7	6.0			
FM (30°-60°)	16822.9	44.7			
FH (60°-80°)	14243.8	37.9			G5
FVH (80°-90°)	153.5	0.4			G2/225
BL (0°-30°)	1303.7	3.5	B3/2500		
BM (30°-60°)	1978.5	5.3	B2/2500		
BH (60°-80°)	840.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1
2.5°	4365.2	4384.7	4399.0	4407.9	4418.5	4441.7	4448.8	4459.5	4464.8	4464.8	4477.2
5°	4192.6	4214.0	4244.2	4269.1	4318.9	4383.0	4429.2	4447.0	4479.0	4507.5	4523.5
7.5°	4032.5	4057.4	4093.0	4151.7	4237.1	4340.3	4436.3	4461.2	4523.5	4584.0	4614.2
10°	3929.4	3948.9	3995.2	4078.8	4190.9	4334.9	4470.1	4500.4	4607.1	4708.5	4765.4
12.5°	3893.8	3911.6	3959.6	4053.9	4192.6	4361.6	4548.4	4592.9	4749.4	4897.0	4977.1
15°	3945.4	3948.9	4000.5	4089.5	4226.4	4427.4	4678.2	4731.6	4929.1	5121.2	5220.8
17.5°	4144.6	4128.6	4155.3	4194.4	4302.9	4514.6	4815.2	4895.3	5158.5	5384.4	5478.7
20°	4642.7	4642.7	4582.2	4475.5	4477.2	4649.8	5000.2	5090.9	5412.9	5674.4	5759.8
22.5°	5494.7	5478.7	5357.8	5096.3	4856.1	4882.8	5226.1	5343.5	5718.8	5998.1	6026.6
25°	6519.3	6499.7	6313.0	5944.8	5528.5	5259.9	5532.1	5667.3	6083.5	6330.8	6272.1
27.5°	7604.4	7588.4	7403.4	6946.2	6353.9	5861.2	5896.7	6024.8	6455.3	6699.0	6512.2
30°	8655.6	8661.0	8477.8	8008.2	7337.6	6627.8	6359.2	6433.9	6816.4	7063.6	6796.8
32.5°	9655.3	9662.5	9504.1	8979.4	8353.3	7519.0	6999.6	6980.0	7236.2	7479.9	7173.9
35°	10546.5	10564.3	10455.8	10048.5	9385.0	8511.6	7830.3	7784.0	7832.1	8107.8	7752.0
37.5°	11405.7	11416.4	11334.5	10991.2	10436.2	9602.0	8879.8	8814.0	8710.8	8922.5	8515.1
40°	12346.7	12320.0	12225.7	11914.4	11437.7	10806.2	10007.5	9893.7	9714.0	9902.6	9518.4
42.5°	13221.8	13191.6	13207.6	12855.4	12453.4	12044.3	11322.1	11126.4	11021.5	11238.5	10749.3
45°	14315.8	14299.8	14353.2	14047.2	13721.7	13424.6	12828.7	12615.3	12569.0	12823.4	12238.2
47.5°	15395.5	15434.7	15600.1	15470.2	15338.6	15077.1	14424.3	14328.2	14356.7	14664.4	13808.8
50°	16295.6	16341.9	16795.4	16944.9	17135.2	16982.2	16327.6	16268.9	16381.0	16658.5	15498.7
52.5°	16946.6	17040.9	17604.8	18293.2	18986.9	19090.1	18437.3	18383.9	18535.1	18577.8	16804.3
55°	17398.5	17482.1	18120.7	19380.0	20792.4	21237.1	20831.5	20625.2	20596.7	20175.2	18177.6
57.5°	17478.5	17469.6	18387.5	20082.7	22208.3	23355.7	23099.5	22896.7	22313.3	21651.6	19751.8
60°	17026.7	17078.3	18143.8	20326.4	23097.7	24958.4	24977.9	24714.7	23805.7	23087.1	21278.0
62.5°	15635.7	15845.6	16921.7	19687.8	23087.1	25604.1	26354.7	26153.7	25066.9	24262.9	22825.6
65°	13380.1	13454.9	14481.2	17499.9	21527.1	25333.7	27594.6	27519.8	26203.5	25404.8	23620.7
67.5°	9771.0	9609.1	10687.0	13780.4	18225.6	23757.7	28484.0	28578.2	27080.5	25639.6	22774.0
68°	8917.1	8965.2	9804.8	12860.7	17361.1	23200.9	28542.7	28686.7	27167.6	25486.7	22311.5
70°	5315.1	5407.6	6156.4	8854.9	13207.6	20050.7	27909.4	28238.5	26648.2	23908.9	19298.2
72.5°	1357.2	1467.5	2175.5	3963.2	7543.9	14127.2	23560.2	24117.0	23136.9	19396.1	13027.9
75°	558.5	587.0	777.3	1305.6	2810.5	6364.6	15528.9	16720.7	16039.5	11612.0	5887.8
77.5°	386.0	405.6	499.8	724.0	1216.7	2157.7	7613.3	8474.2	7634.6	3963.2	1284.3
80°	277.5	293.5	357.5	482.1	699.1	770.2	2481.4	2869.2	2278.6	869.8	318.4
82.5°	165.4	177.9	266.8	343.3	425.1	368.2	617.2	700.8	659.9	432.2	142.3
85°	81.8	96.1	179.7	245.5	229.5	154.8	188.6	209.9	259.7	263.3	76.5
87.5°	5.3	10.7	104.9	147.6	64.0	35.6	55.1	67.6	92.5	129.9	32.0
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°	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1	4470.1
2.5°	4482.6	4484.4	4471.9	4466.6	4470.1	4448.8	4439.9	4443.4	4443.4	4448.8	4439.9
5°	4527.1	4527.1	4505.7	4477.2	4461.2	4420.3	4393.6	4386.5	4381.2	4377.6	4370.5
7.5°	4623.1	4612.4	4575.1	4512.8	4459.5	4370.5	4302.9	4267.3	4249.6	4242.4	4237.1
10°	4777.9	4758.3	4696.0	4580.4	4457.7	4299.4	4151.7	4046.8	3959.6	3924.0	3902.7
12.5°	4986.0	4957.5	4852.6	4660.5	4445.2	4153.5	3833.3	3525.6	3239.2	3121.8	3063.1
15°	5226.1	5185.2	5019.8	4728.1	4372.3	3824.4	3128.9	2589.9	2193.3	2043.8	1979.8
17.5°	5469.8	5416.5	5165.6	4770.7	4153.5	3143.1	2195.0	1657.8	1392.8	1321.6	1296.7
20°	5715.3	5637.0	5291.9	4738.7	3659.0	2266.2	1447.9	1211.4	1134.9	1113.5	1106.4
22.5°	5948.3	5827.4	5405.8	4614.2	2897.7	1520.9	1145.5	1070.8	1045.9	1033.5	1029.9
25°	6151.1	5982.1	5505.4	4230.0	2051.0	1149.1	1031.7	1006.8	974.8	951.7	953.4
27.5°	6341.4	6136.9	5565.9	3596.7	1367.9	981.9	955.2	921.4	862.7	828.9	828.9
30°	6570.9	6343.2	5610.3	2767.8	1006.8	868.1	846.7	795.1	715.1	670.6	670.6
32.5°	6916.0	6656.3	5581.9	1942.5	834.3	763.1	713.3	642.1	555.0	512.3	510.5
35°	7444.3	7140.1	5379.1	1273.6	736.4	663.5	583.4	496.3	419.8	384.2	382.4
37.5°	8155.8	7787.6	4923.7	910.7	659.9	571.0	474.9	378.9	322.0	298.8	297.1
40°	9079.0	8540.0	4272.7	738.2	588.8	482.1	366.4	293.5	254.4	236.6	238.4
42.5°	10187.2	9345.8	3491.8	636.8	519.4	396.7	286.4	231.2	206.3	193.9	190.3
45°	11418.1	10140.9	2673.5	567.4	450.0	320.2	224.1	183.2	163.6	156.5	156.5
47.5°	12771.8	10914.7	1956.7	507.0	375.3	247.3	179.7	149.4	133.4	128.1	126.3
50°	14000.9	11451.9	1410.6	442.9	307.7	195.7	145.9	124.5	113.8	106.7	106.7
52.5°	15025.5	11620.9	1038.8	373.5	249.0	156.5	121.0	106.7	96.1	90.7	90.7
55°	15927.4	11551.5	772.0	307.7	201.0	128.1	103.2	90.7	81.8	76.5	76.5
57.5°	16791.9	11327.4	576.3	250.8	161.9	103.2	87.2	76.5	67.6	64.0	64.0
60°	17498.1	10953.9	428.7	202.8	129.9	83.6	72.9	62.3	55.1	49.8	49.8
62.5°	18070.8	10541.2	314.8	167.2	103.2	65.8	56.9	51.6	40.9	35.6	35.6
65°	18074.4	9856.3	236.6	138.7	80.0	51.6	42.7	40.9	26.7	21.3	19.6
67.5°	16767.0	8497.3	181.4	119.2	62.3	39.1	32.0	33.8	14.2	8.9	7.1
68°	16292.0	8152.2	170.8	117.4	58.7	37.4	30.2	33.8	12.5	7.1	5.3
70°	13735.9	6485.5	137.0	113.8	51.6	28.5	24.9	33.8	10.7	5.3	3.6
72.5°	8785.5	3763.9	101.4	90.7	39.1	21.3	16.0	30.2	10.7	3.6	1.8
75°	3739.0	1166.9	69.4	64.0	23.1	16.0	10.7	19.6	7.1	1.8	0.0
77.5°	788.0	263.3	40.9	39.1	16.0	10.7	7.1	5.3	1.8	0.0	0.0
80°	202.8	76.5	21.3	19.6	8.9	5.3	3.6	0.0	0.0	0.0	0.0
82.5°	64.0	30.2	12.5	8.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.0	17.8	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	5.3	1.8	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)