

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: P321933

Luminaire Tested: **GAN-SA9C-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44984 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

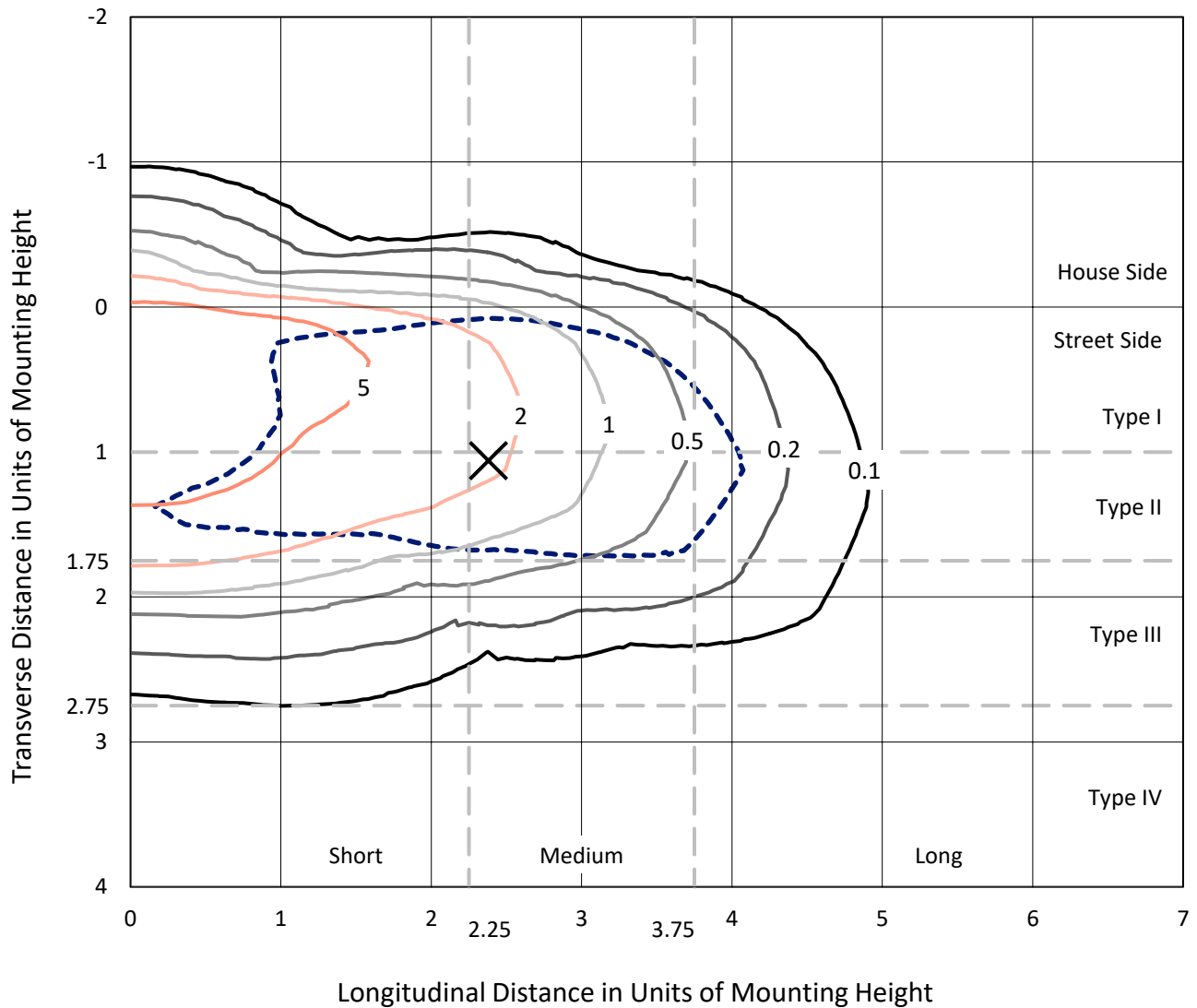
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

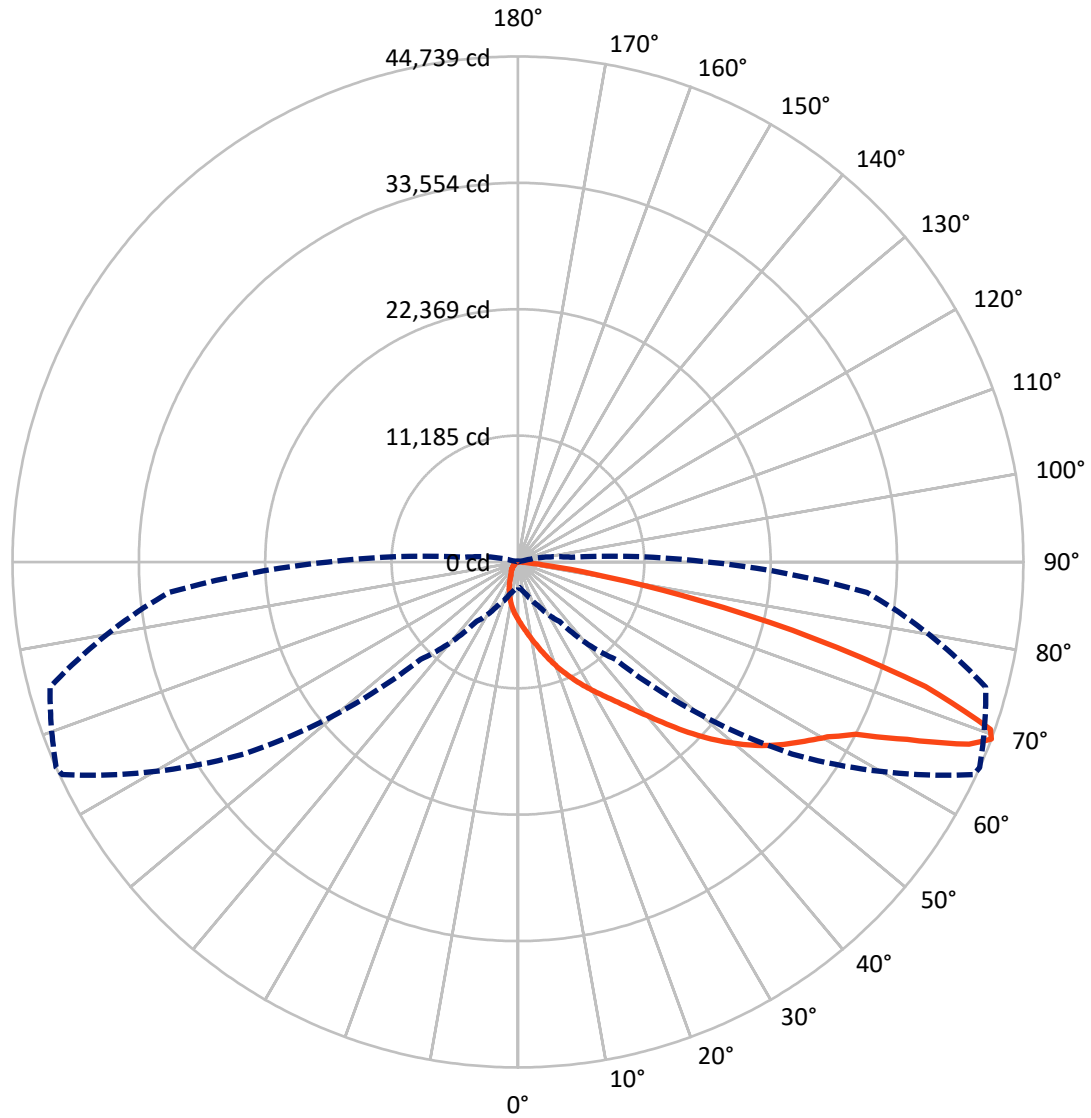
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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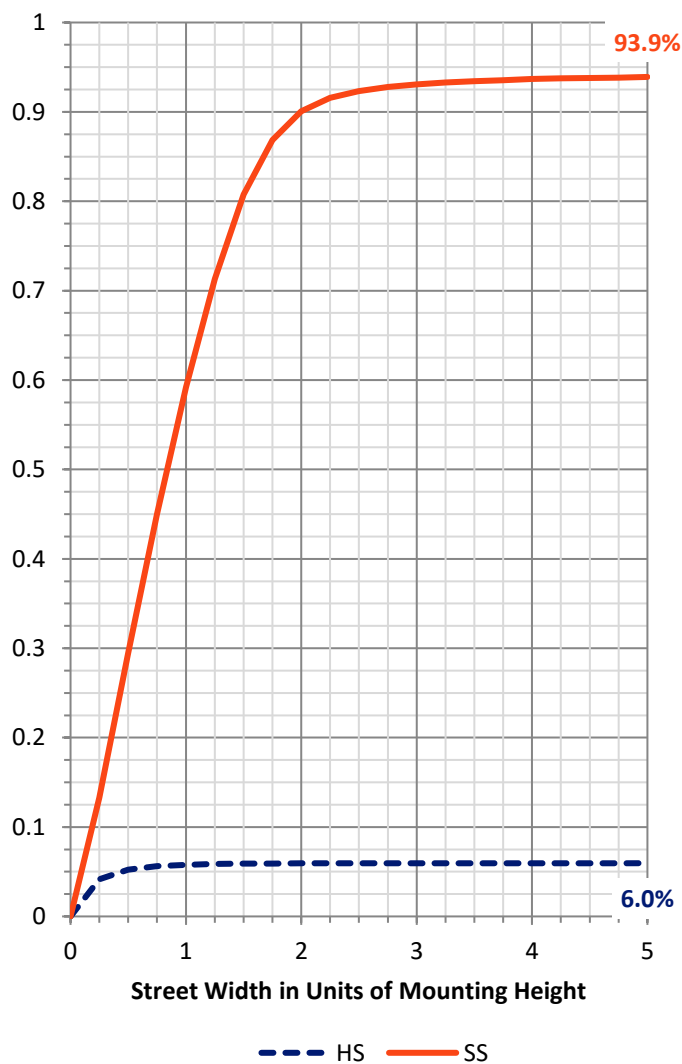
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.4	0.0	2698.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	42285.6	0.0	42285.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	44984.0	0.0	44984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.8	1.1
10°-20°	1472.8	3.3
20°-30°	2564.6	5.7
30°-40°	4499.6	10.0
40°-50°	7531.7	16.7
50°-60°	11070.9	24.6
60°-70°	11367.0	25.3
70°-80°	5611.6	12.5
80°-90°	371.0	0.8
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°	44984.0	100.0
0°-180°	44984.0	100.0

Coefficient of Utilization



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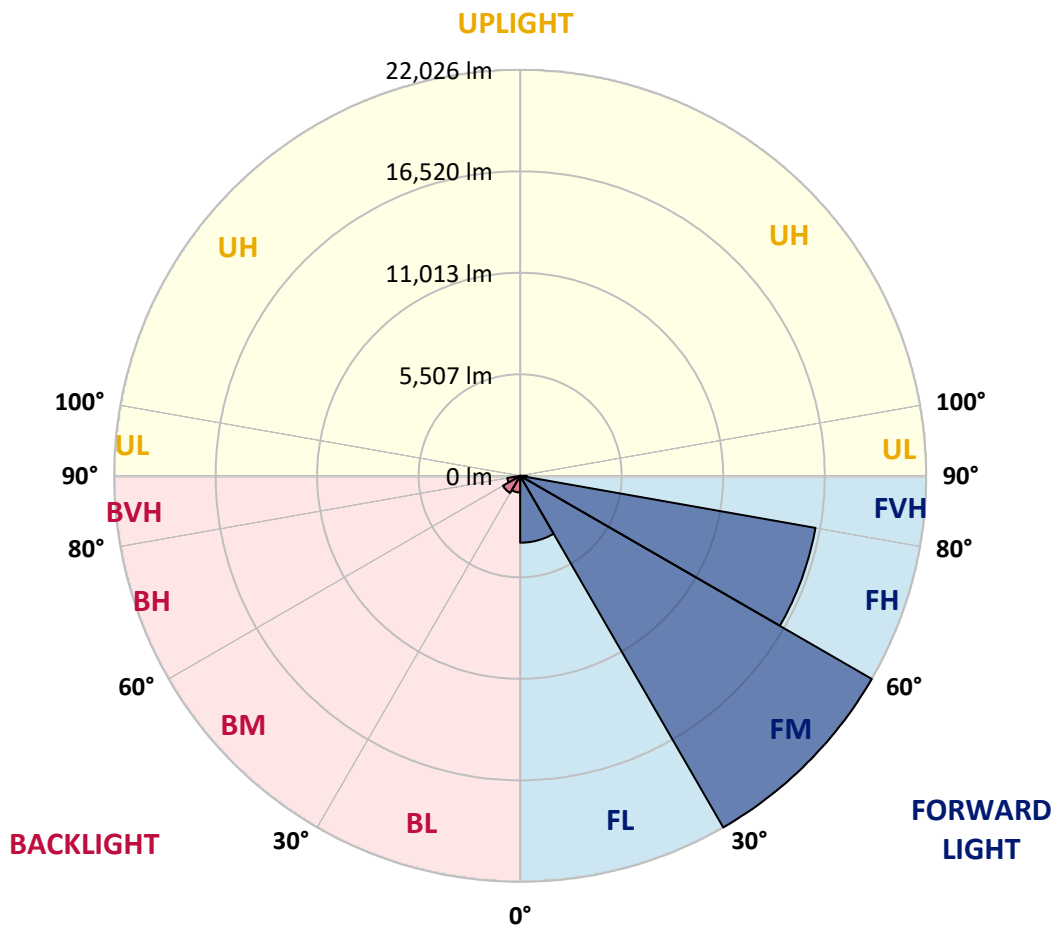
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3629.8	8.1			
FM (30°-60°)	22026.3	49.0			
FH (60°-80°)	16267.4	36.2			G5
FVH (80°-90°)	362.1	0.8			G3/500
BL (0°-30°)	902.5	2.0	B2/1000		
BM (30°-60°)	1075.9	2.4	B2/2500		
BH (60°-80°)	711.1	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3
2.5°	6025.2	5999.6	5988.9	5941.9	5860.7	5798.8	5679.1	5540.2	5514.6	5380.0	5215.5
5°	6807.2	6785.9	6770.9	6704.7	6621.4	6465.4	6247.5	5988.9	5939.8	5683.4	5354.4
7.5°	7352.1	7390.5	7390.5	7347.8	7243.1	7125.6	6858.5	6506.0	6444.0	6050.9	5540.2
10°	7670.4	7717.4	7753.8	7790.1	7775.1	7728.1	7476.0	7078.6	7003.8	6482.5	5756.0
12.5°	7700.4	7747.4	7849.9	8001.6	8149.0	8255.9	8097.8	7713.2	7627.7	6982.4	6012.4
15°	7533.7	7582.8	7740.9	8035.8	8392.6	8704.6	8755.8	8416.1	8328.5	7578.6	6332.9
17.5°	7243.1	7275.2	7501.6	7909.7	8469.5	9042.1	9352.0	9170.3	9089.1	8260.1	6689.7
20°	7027.3	7050.8	7249.5	7687.5	8422.5	9253.7	9916.0	9971.6	9886.1	8990.9	7076.5
22.5°	7397.0	7439.7	7446.1	7653.3	8294.3	9358.4	10411.7	10760.0	10695.9	9766.5	7456.8
25°	8407.6	8456.7	8294.3	8166.1	8403.3	9405.4	10836.9	11567.6	11516.3	10601.9	7839.2
27.5°	9743.0	9794.2	9584.8	9202.4	8973.8	9582.7	11215.1	12388.1	12385.9	11486.4	8251.6
30°	11054.8	11106.1	10892.5	10510.0	9984.4	10084.8	11542.0	13247.0	13259.8	12398.8	8689.6
32.5°	12430.8	12494.9	12274.8	11783.4	11234.3	10952.3	12001.4	14110.2	14182.8	13456.4	9183.2
35°	13994.8	14003.4	13693.5	13178.6	12546.2	12112.5	12738.5	15078.1	15251.1	14766.1	9809.2
37.5°	15528.9	15590.9	15336.6	14524.7	13943.5	13452.1	13834.6	16287.4	16533.1	16366.5	10627.5
40°	16665.6	16795.9	16759.6	15883.6	15332.3	14981.9	15195.6	17725.3	18037.3	18229.6	11659.5
42.5°	17379.2	17477.5	17644.1	17116.4	16616.4	16674.1	16802.3	19400.4	19785.0	20353.4	12845.3
45°	18197.5	18244.5	18383.4	18150.5	17812.9	18394.1	18507.3	21287.1	21690.9	22637.4	14161.5
47.5°	19197.5	19308.6	19347.0	19133.4	18979.5	19915.4	20150.4	23002.8	23569.0	25083.8	15554.5
50°	20470.9	20500.8	20567.0	20428.2	20274.3	21223.0	21624.7	24803.9	25318.9	27538.8	16928.4
52.5°	21716.5	21823.4	22054.1	21966.5	21904.6	22336.1	22938.7	26427.8	27002.5	29585.7	18300.1
55°	22075.5	22167.4	22964.3	23509.1	24013.4	23707.9	24195.0	27882.8	28504.5	31414.6	19620.5
57.5°	20641.8	20827.7	22208.0	23626.7	25718.4	25840.2	25921.4	29376.3	29933.9	32816.2	20994.4
60°	17018.1	17054.4	19319.3	21752.9	25436.4	27701.2	28442.6	30980.9	31448.8	34121.7	22639.5
62.5°	10824.1	11193.7	13678.6	17114.3	22453.7	27432.0	31491.5	33408.1	33579.0	35687.8	24998.4
65°	5155.6	5394.9	7185.4	10574.1	16263.9	23985.6	33596.1	37798.8	37875.7	38792.3	28149.9
67.5°	2854.5	2969.9	3822.4	5691.9	9507.9	16962.6	32745.7	42999.3	43072.0	41963.1	30914.6
69°	2232.8	2331.0	3001.9	4290.3	6446.2	12191.5	29632.7	44522.7	44738.5	42871.1	31012.9
70°	1895.2	1991.3	2585.3	3623.7	5183.4	9420.3	26376.5	44144.6	44373.2	42785.7	30280.1
72.5°	1160.2	1215.7	1722.1	2551.1	3474.1	4739.0	16266.0	37333.0	37719.8	39247.4	26023.9
75°	782.0	811.9	1076.9	1760.6	2484.9	2440.0	8450.3	26314.5	27152.1	30530.1	19221.0
77.5°	559.8	587.6	722.2	1138.8	1741.3	1611.0	3826.7	16353.6	16533.1	18310.8	10482.2
80°	318.4	344.0	510.7	677.3	1181.5	1074.7	1521.3	7811.5	7901.2	7852.1	3499.8
82.5°	166.7	188.0	279.9	446.6	758.5	702.9	632.4	2615.2	2628.0	2185.8	767.0
85°	32.0	38.5	138.9	305.5	391.0	305.5	258.5	613.2	626.0	553.4	190.2
87.5°	0.0	2.1	55.6	68.4	76.9	79.1	83.3	119.7	128.2	173.1	51.3
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°	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3	5119.3
2.5°	5142.8	5065.9	4918.5	4747.6	4615.1	4484.7	4382.2	4275.4	4236.9	4217.7	4215.5
5°	5194.1	5031.7	4719.8	4399.3	4136.5	3888.6	3711.3	3542.5	3463.4	3427.1	3412.2
7.5°	5279.6	5018.9	4516.8	4027.5	3649.3	3339.5	3093.8	2910.1	2818.2	2779.7	2764.8
10°	5380.0	5001.8	4279.6	3634.4	3151.5	2831.0	2587.4	2405.8	2305.4	2262.7	2241.3
12.5°	5497.5	4971.9	4006.1	3237.0	2726.3	2405.8	2111.0	1886.6	1771.3	1722.1	1698.6
15°	5642.8	4942.0	3719.8	2863.1	2352.4	1961.4	1638.8	1487.1	1463.6	1455.0	1457.2
17.5°	5785.9	4895.0	3407.9	2493.4	1959.3	1532.0	1367.4	1358.9	1363.2	1363.2	1363.2
20°	5914.1	4788.1	3068.2	2177.2	1585.4	1292.7	1258.5	1243.5	1232.8	1224.3	1213.6
22.5°	6014.6	4645.0	2741.3	1863.1	1294.8	1183.7	1130.3	1083.3	1044.8	1019.2	1006.3
25°	6082.9	4454.8	2442.1	1561.9	1164.5	1076.9	980.7	901.7	841.8	805.5	790.5
27.5°	6134.2	4249.7	2175.1	1307.6	1074.7	952.9	826.9	732.9	670.9	638.8	626.0
30°	6170.5	4016.8	1940.0	1149.5	974.3	822.6	688.0	596.1	551.2	534.2	525.6
32.5°	6204.7	3758.3	1717.8	1074.7	880.3	702.9	576.9	506.4	478.6	457.2	450.8
35°	6290.2	3519.0	1506.3	995.7	784.1	600.4	495.7	444.4	416.6	403.8	399.5
37.5°	6493.2	3341.7	1303.3	914.5	688.0	519.2	433.7	397.4	371.8	359.0	354.7
40°	6820.1	3251.9	1132.4	826.9	594.0	457.2	393.1	359.0	331.2	311.9	307.7
42.5°	7300.8	3264.7	1012.8	739.3	519.2	408.1	354.7	314.1	284.2	267.1	262.8
45°	7884.1	3358.8	929.4	653.8	457.2	369.6	311.9	269.2	241.4	226.5	222.2
47.5°	8516.5	3510.5	861.1	576.9	408.1	333.3	269.2	224.3	200.8	188.0	185.9
50°	9183.2	3657.9	790.5	502.1	365.4	297.0	226.5	185.9	166.7	156.0	151.7
52.5°	9858.3	3828.8	726.4	433.7	329.0	254.3	188.0	151.7	136.7	128.2	123.9
55°	10584.8	3957.0	664.5	380.3	292.7	215.8	156.0	126.1	113.2	102.6	100.4
57.5°	11439.4	4155.7	600.4	329.0	250.0	179.5	128.2	100.4	89.7	79.1	76.9
60°	12593.2	4388.6	532.0	290.6	205.1	147.4	104.7	81.2	68.4	59.8	57.7
62.5°	14114.5	4647.1	446.6	254.3	166.7	119.7	83.3	64.1	49.1	38.5	38.5
65°	16043.8	5068.0	365.4	213.7	136.7	98.3	64.1	47.0	27.8	17.1	17.1
67.5°	17169.8	5140.7	294.9	175.2	111.1	83.3	53.4	32.0	8.5	2.1	0.0
69°	16808.7	4719.8	250.0	149.6	96.1	79.1	49.1	23.5	4.3	0.0	0.0
70°	16129.3	4316.0	220.1	132.5	87.6	74.8	47.0	17.1	4.3	0.0	0.0
72.5°	13328.2	3072.4	166.7	98.3	64.1	66.2	42.7	10.7	4.3	0.0	0.0
75°	9708.8	1867.4	119.7	68.4	40.6	49.1	29.9	4.3	2.1	0.0	0.0
77.5°	5401.4	880.3	74.8	38.5	25.6	29.9	15.0	0.0	0.0	0.0	0.0
80°	1754.2	239.3	34.2	21.4	15.0	17.1	6.4	0.0	0.0	0.0	0.0
82.5°	324.8	68.4	19.2	10.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	70.5	27.8	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	8.5	2.1	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)