

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: P321294

Luminaire Tested: **GAN-SA0C-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56509 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

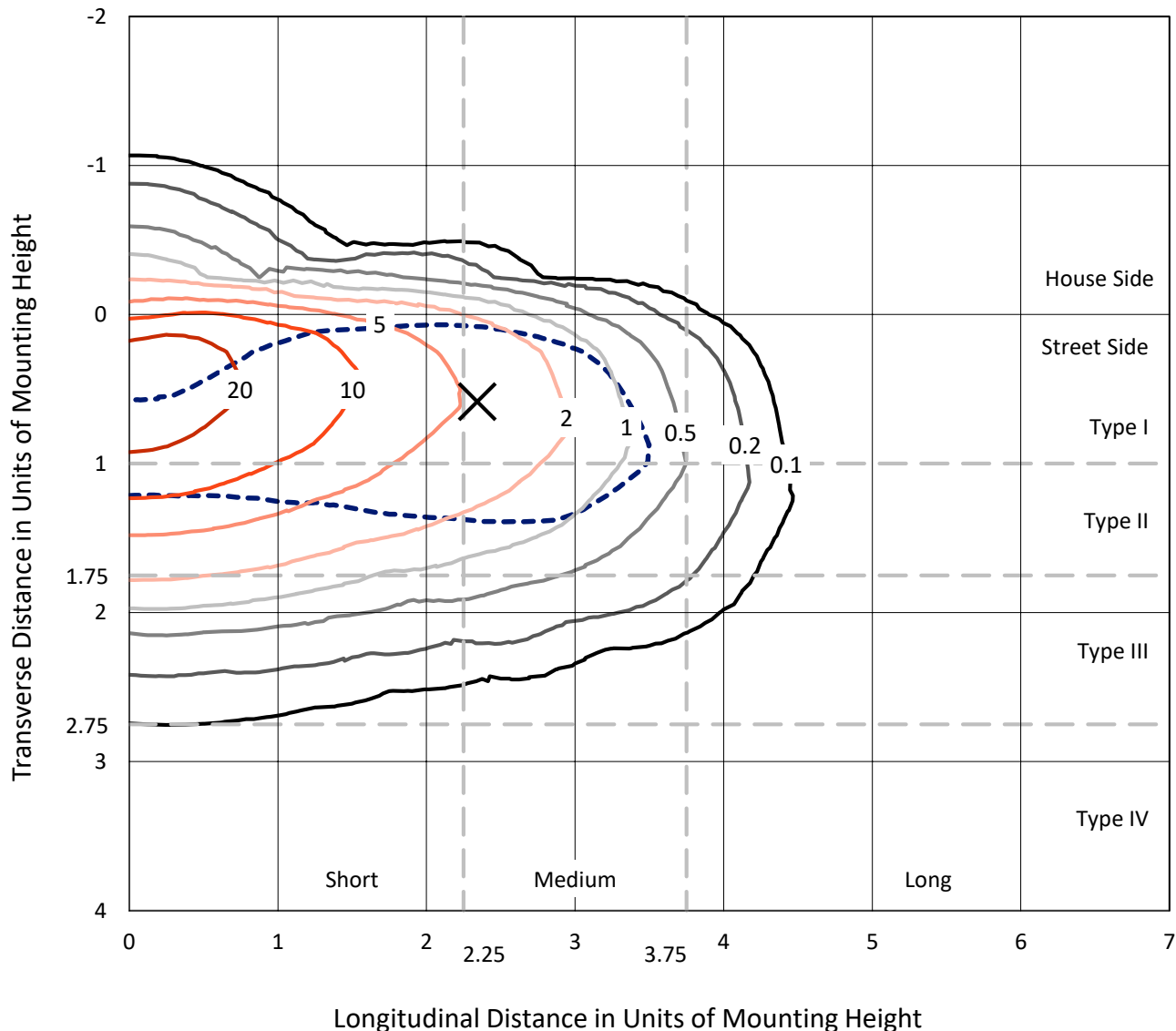
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

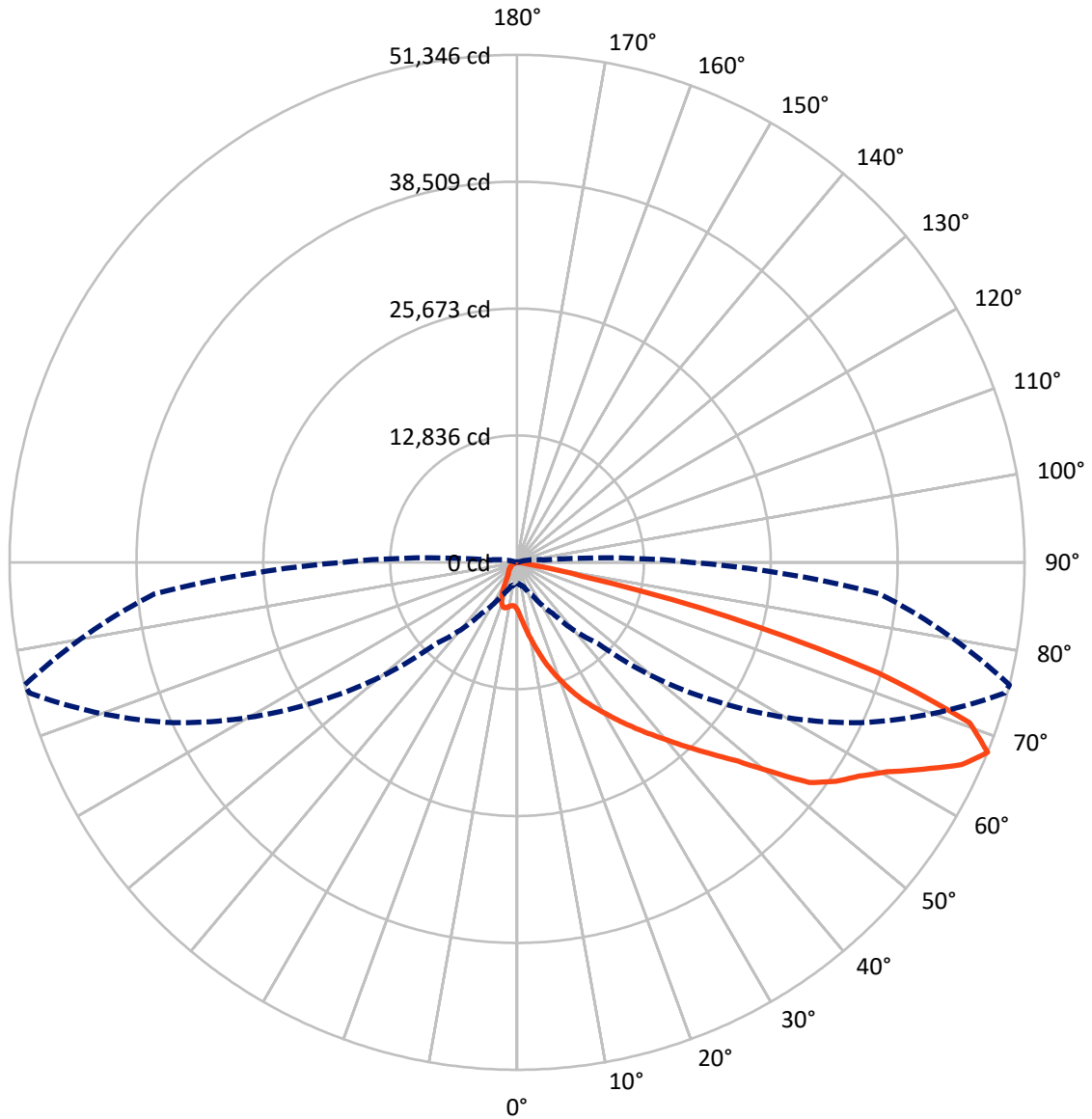
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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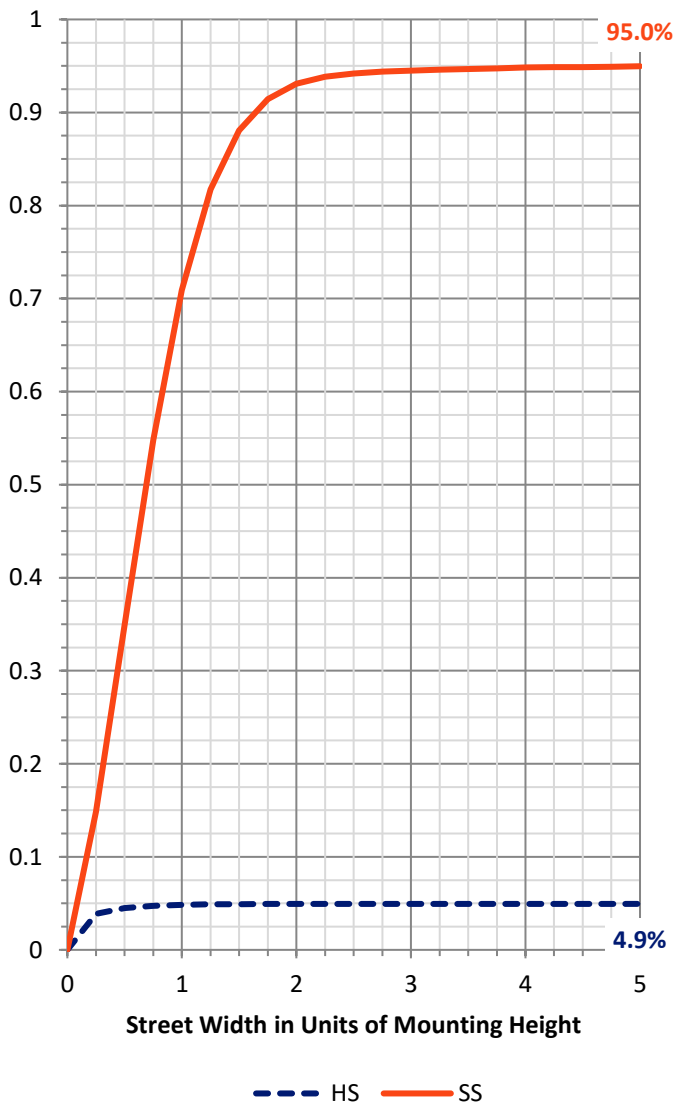
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.1	0.0	2806.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	53702.9	0.0	53702.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	56509.0	0.0	56509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.1	1.1
10°-20°	2362.9	4.2
20°-30°	4807.8	8.5
30°-40°	8344.8	14.8
40°-50°	11790.1	20.9
50°-60°	13370.5	23.7
60°-70°	11089.6	19.6
70°-80°	4017.0	7.1
80°-90°	130.3	0.2
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°	56509.0	100.0
0°-180°	56509.0	100.0

Coefficient of Utilization

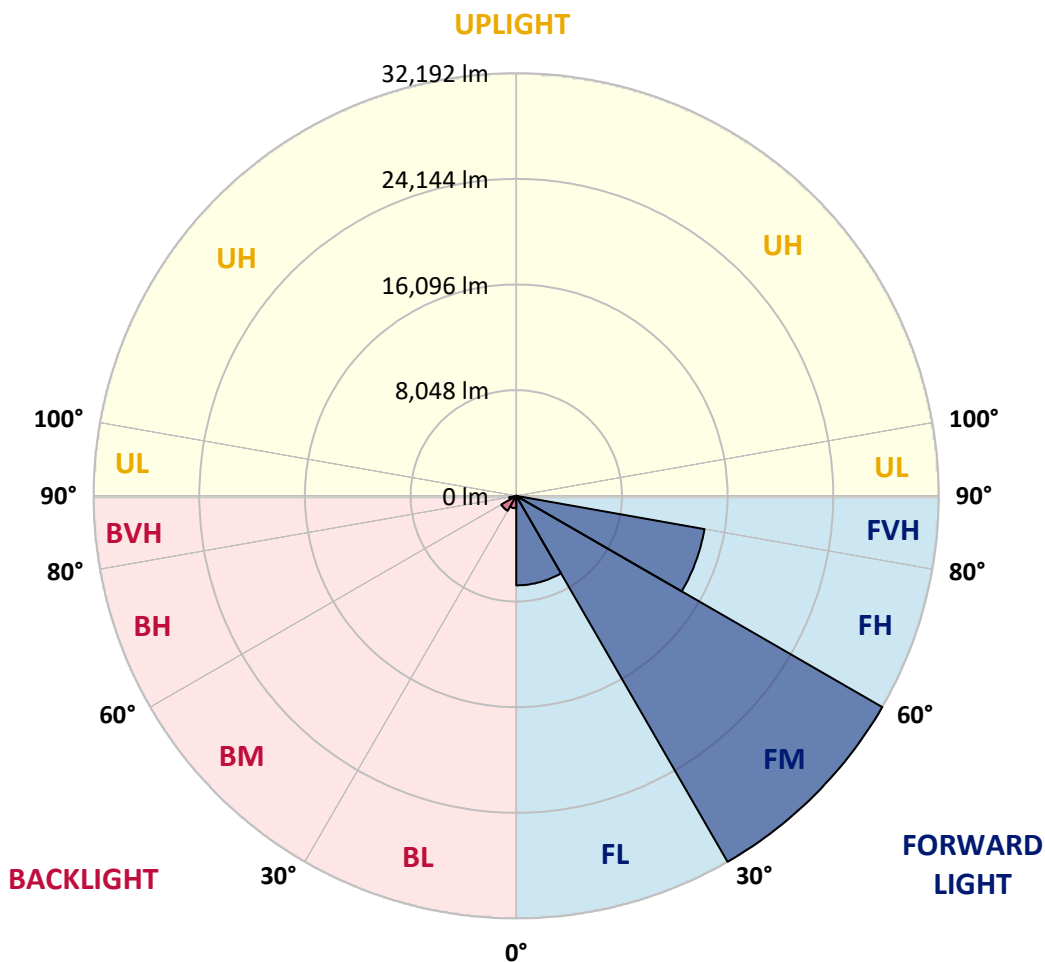


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6820.4	12.1			
FM (30°-60°)	32192.0	57.0			
FH (60°-80°)	14564.3	25.8			G5
FVH (80°-90°)	126.2	0.2			G2/225
BL (0°-30°)	946.4	1.7	B2/1000		
BM (30°-60°)	1313.3	2.3	B2/2500		
BH (60°-80°)	542.3	1.0	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	75°	76°	85°
0°	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6
2.5°	7155.7	6994.8	7031.9	6927.9	6739.8	6353.5	6024.2	5712.2	5348.2	5335.9	5036.3
5°	9649.1	9512.9	9495.6	9285.1	8943.4	8287.3	7648.5	6920.5	6108.4	6048.9	5412.6
7.5°	11912.2	11803.2	11763.6	11513.6	10877.2	10238.4	9406.4	8336.8	7066.6	6957.7	5920.2
10°	13650.4	13598.4	13608.3	13430.0	12885.3	12291.0	11199.1	9834.8	8153.6	7985.2	6529.3
12.5°	14967.6	14980.0	15069.1	14960.2	14655.6	14214.9	13048.7	11431.8	9356.9	9126.7	7225.1
15°	15935.7	15997.6	16161.1	16297.2	16275.0	15893.7	14824.0	13053.6	10634.6	10379.5	8000.1
17.5°	16562.2	16631.5	16869.2	17171.3	17448.6	17359.5	16537.4	14618.5	11927.1	11632.4	8829.5
20°	17111.9	17193.6	17448.6	17847.2	18364.7	18476.2	17936.4	16136.3	13217.1	12858.0	9686.2
22.5°	18302.8	18300.4	18456.3	18689.1	19181.8	19469.0	19127.4	17545.2	14492.2	14118.3	10560.3
25°	20457.0	20375.3	20320.8	20137.6	20246.5	20424.8	20234.1	18862.4	15774.8	15396.0	11446.7
27.5°	23017.2	23066.7	22626.0	22133.3	21751.9	21568.7	21256.7	20083.1	17007.9	16591.9	12313.3
30°	25718.6	25733.4	25213.4	24584.5	23745.2	23049.4	22509.6	21249.3	18275.6	17822.5	13155.2
32.5°	28155.0	28058.4	27543.4	26686.7	25626.9	24844.5	23722.9	22551.7	19617.6	19179.4	14091.1
35°	30086.3	29972.4	29345.9	28566.0	27466.6	26679.3	25329.8	23851.6	21028.9	20600.6	15029.5
37.5°	31497.6	31363.9	30720.1	29917.9	28969.6	28511.5	27194.3	25265.4	22569.0	22108.5	16017.5
40°	31987.9	31871.5	31467.9	30881.1	30118.5	30014.5	29172.6	26892.2	24245.3	23755.1	17136.6
42.5°	31695.7	31581.8	31438.2	31240.1	30923.2	31022.2	31039.5	28746.7	26107.3	25624.5	18372.2
45°	30536.9	30435.4	30584.0	30873.7	31267.3	31757.6	32743.1	30739.9	28187.2	27672.1	19800.8
47.5°	28830.9	28756.6	29167.7	29890.7	31042.0	32393.9	34300.5	32834.7	30522.1	30044.2	21583.6
50°	26404.4	26392.0	27214.1	28533.8	30304.2	32701.0	35909.9	35216.6	33765.7	33263.0	24062.1
52.5°	22626.0	22650.7	24267.6	26379.7	29009.2	32493.0	36944.9	38277.0	37539.1	37016.7	26208.8
55°	19028.3	19176.9	20323.3	23368.8	27023.4	31720.5	37301.4	39705.7	39621.5	39126.3	27402.3
57.5°	15504.9	15774.8	16879.1	19724.1	24124.0	29940.2	37105.8	40324.7	41171.5	40792.6	28977.0
60°	11686.9	11810.7	13083.4	15742.6	20402.5	26691.6	35687.1	40661.4	43291.0	43028.5	31262.4
62.5°	7435.5	7745.0	8874.1	11439.3	15886.2	22180.3	33295.2	40656.5	45942.8	46086.4	34211.3
65°	3917.1	4278.6	4877.8	7088.9	10916.8	17141.6	29697.5	40275.2	49196.3	49396.9	36516.5
67.5°	2112.1	2216.0	2533.0	3679.4	6331.2	11612.6	24411.2	38393.4	51080.6	51345.5	36838.4
70°	1545.0	1602.0	1720.8	2035.3	3186.7	6744.7	17812.6	34127.2	48651.6	48552.5	32730.7
72.5°	1186.0	1275.2	1364.3	1490.6	1832.3	3600.2	11090.2	26723.8	38819.2	38165.6	24465.7
75°	935.9	950.8	1077.1	1191.0	1374.2	2050.2	4924.8	15564.3	23693.2	22145.6	12687.2
77.5°	747.8	757.7	831.9	931.0	1104.3	1347.0	1525.2	6123.2	7564.3	6749.7	2753.3
80°	443.2	468.0	619.0	718.0	916.1	849.3	557.1	1329.6	1181.1	1069.6	463.0
82.5°	247.6	267.4	349.1	567.0	638.8	406.1	277.3	359.0	277.3	269.9	131.2
85°	0.0	12.4	225.3	351.6	260.0	89.1	116.4	118.8	81.7	76.8	52.0
87.5°	0.0	0.0	69.3	66.9	9.9	14.9	27.2	39.6	32.2	32.2	27.2
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°	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6	4793.6
2.5°	4887.7	4754.0	4501.4	4253.8	4045.8	3875.0	3721.5	3659.6	3610.1	3602.6	3563.0
5°	5105.6	4835.7	4352.9	3956.7	3691.8	3503.6	3342.6	3243.6	3166.8	3137.1	3109.9
7.5°	5434.9	5026.3	4333.1	3877.5	3560.5	3243.6	2946.5	2624.6	2424.0	2347.3	2302.7
10°	5836.0	5278.9	4407.3	3855.2	3300.6	2632.0	2139.3	1730.7	1564.9	1510.4	1495.5
12.5°	6304.0	5593.4	4536.1	3716.5	2745.9	1869.4	1475.7	1337.1	1299.9	1282.6	1282.6
15°	6841.3	5937.5	4627.7	3315.4	2030.3	1413.8	1277.6	1213.3	1173.6	1151.4	1153.8
17.5°	7391.0	6274.3	4583.1	2733.5	1498.0	1257.8	1156.3	1087.0	1032.5	1010.2	1005.3
20°	7945.6	6586.2	4335.5	2035.3	1267.7	1141.5	1027.6	950.8	896.3	874.0	869.1
22.5°	8520.0	6851.2	3899.8	1493.0	1139.0	1012.7	901.3	824.5	772.5	752.7	742.8
25°	9079.6	7066.6	3290.6	1208.3	1017.6	891.4	784.9	713.1	666.1	646.2	643.8
27.5°	9602.1	7202.8	2585.0	1067.2	911.2	782.4	685.9	621.5	581.9	567.0	564.5
30°	10072.5	7215.2	1911.5	963.2	817.1	688.3	599.2	542.3	507.6	492.7	487.8
32.5°	10547.9	7111.2	1391.5	869.1	730.4	606.6	520.0	475.4	450.6	438.3	438.3
35°	10996.1	6871.0	1084.5	787.4	646.2	527.4	458.1	425.9	411.0	398.6	398.6
37.5°	11434.3	6526.8	921.1	715.6	567.0	460.5	403.6	383.8	371.4	359.0	359.0
40°	11880.0	6093.5	836.9	648.7	502.6	408.5	359.0	341.7	329.3	319.4	316.9
42.5°	12427.2	5593.4	782.4	586.8	445.7	361.5	316.9	297.1	287.2	277.3	272.4
45°	13061.1	5162.5	737.9	524.9	398.6	321.9	274.8	255.0	240.2	227.8	225.3
47.5°	13974.7	4850.5	678.4	458.1	354.1	279.8	237.7	215.4	193.1	180.8	178.3
50°	15140.9	4593.0	601.7	398.6	309.5	237.7	198.1	170.8	151.0	138.7	138.7
52.5°	15720.3	4256.3	532.3	346.6	260.0	200.6	160.9	128.8	118.8	106.5	106.5
55°	15953.1	3998.8	463.0	294.6	215.4	165.9	126.3	99.0	91.6	84.2	81.7
57.5°	16606.8	3924.5	403.6	250.1	178.3	131.2	96.6	74.3	69.3	59.4	59.4
60°	17659.1	3961.7	349.1	212.9	143.6	101.5	71.8	56.9	52.0	42.1	42.1
62.5°	18795.6	3914.6	294.6	183.2	111.4	74.3	49.5	42.1	42.1	24.8	22.3
65°	19013.5	3486.3	252.6	151.0	86.7	54.5	32.2	27.2	37.1	5.0	0.0
67.5°	17646.7	2703.8	217.9	116.4	64.4	42.1	24.8	12.4	32.2	0.0	0.0
70°	14110.9	1718.4	175.8	84.2	49.5	34.7	19.8	5.0	24.8	0.0	0.0
72.5°	9978.4	997.8	138.7	59.4	42.1	27.2	14.9	0.0	14.9	0.0	0.0
75°	5046.2	532.3	86.7	44.6	32.2	19.8	9.9	0.0	2.5	0.0	0.0
77.5°	1091.9	247.6	54.5	32.2	22.3	12.4	5.0	0.0	0.0	0.0	0.0
80°	237.7	108.9	34.7	19.8	12.4	7.4	0.0	0.0	0.0	0.0	0.0
82.5°	86.7	56.9	17.3	9.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.0	29.7	9.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.8	9.9	2.5	2.5	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)