

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: P382680

Luminaire Tested: **GAN-SA0C-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382680
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-SA0C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 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: 47269.5 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

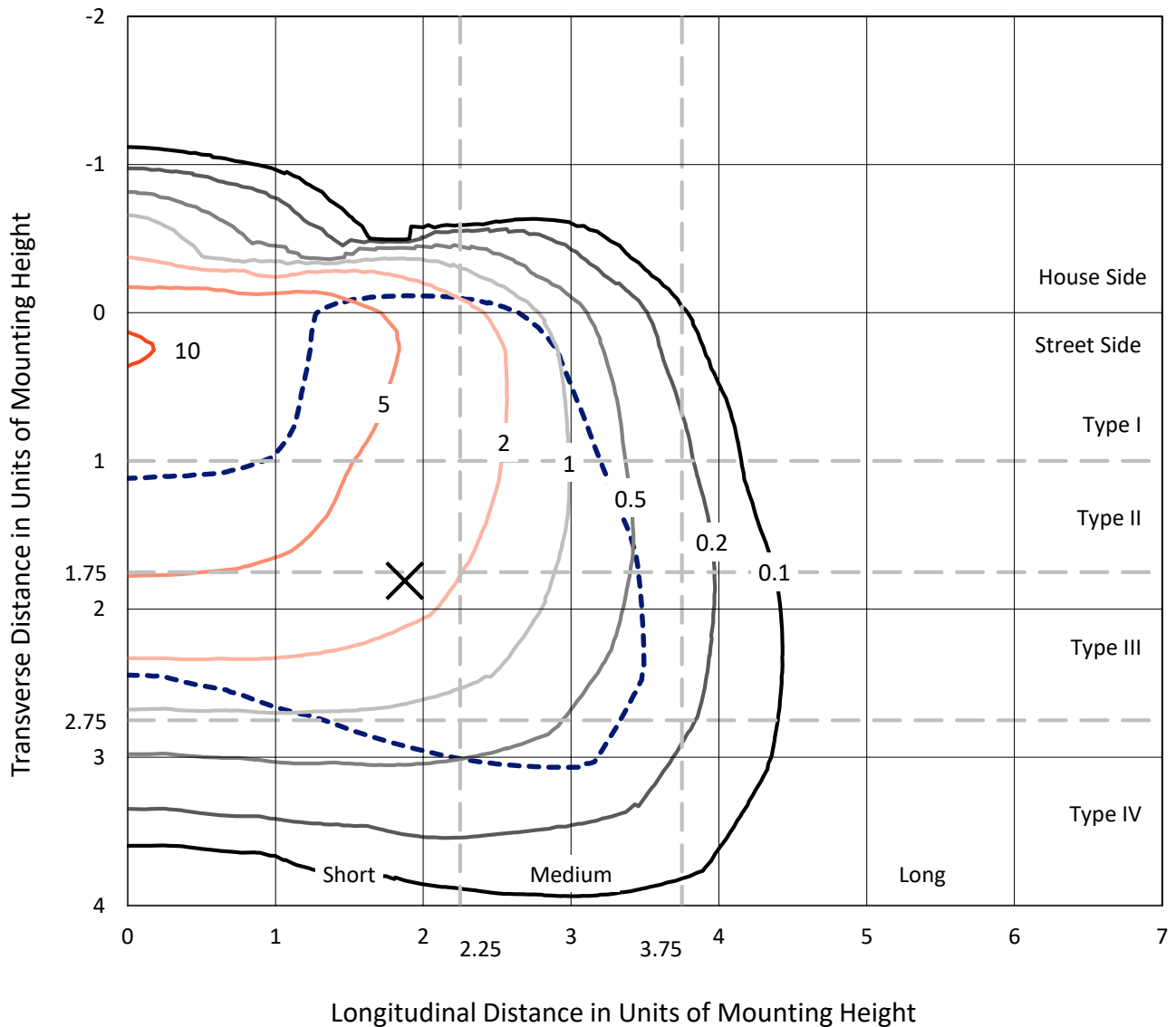
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

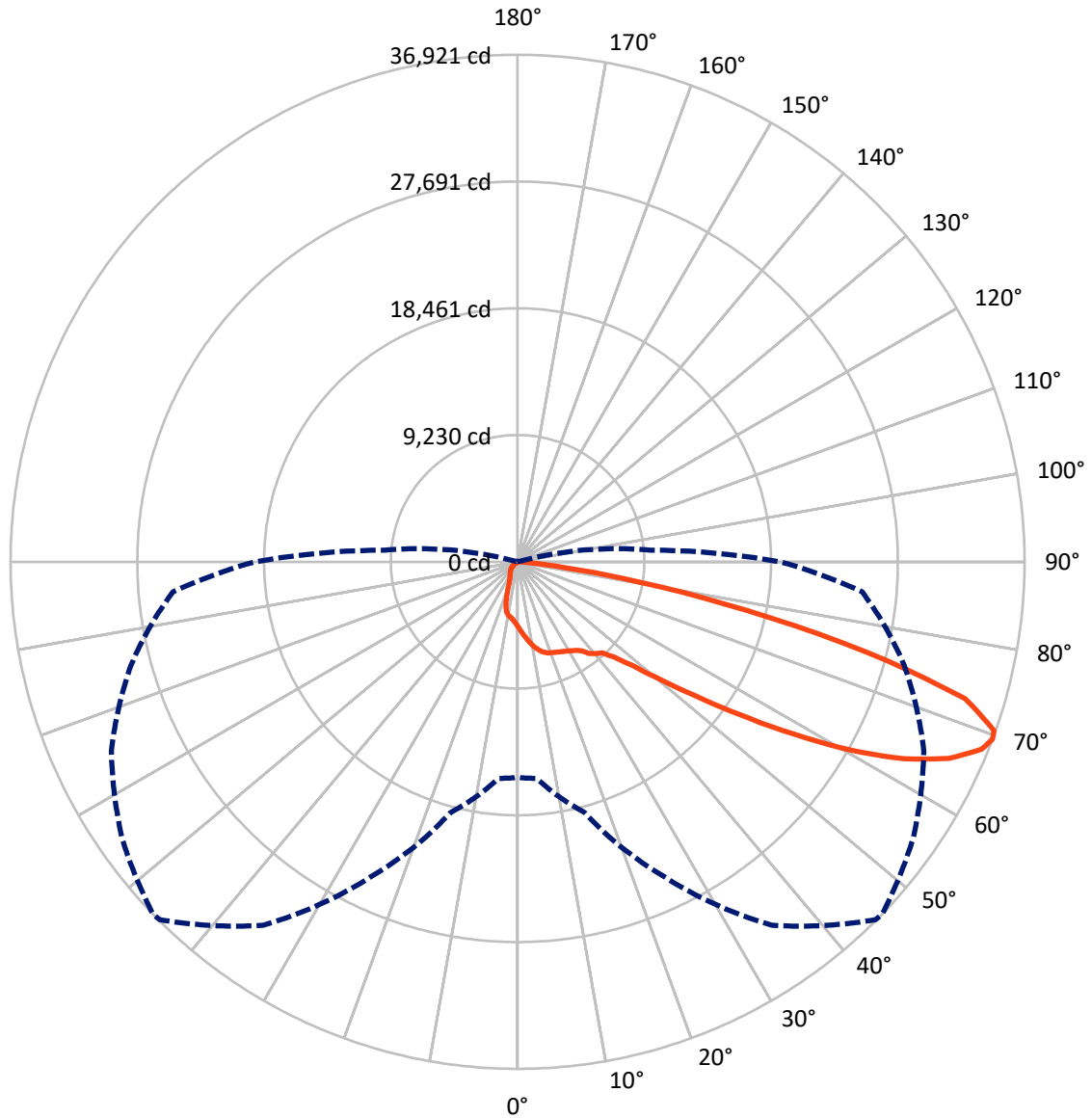
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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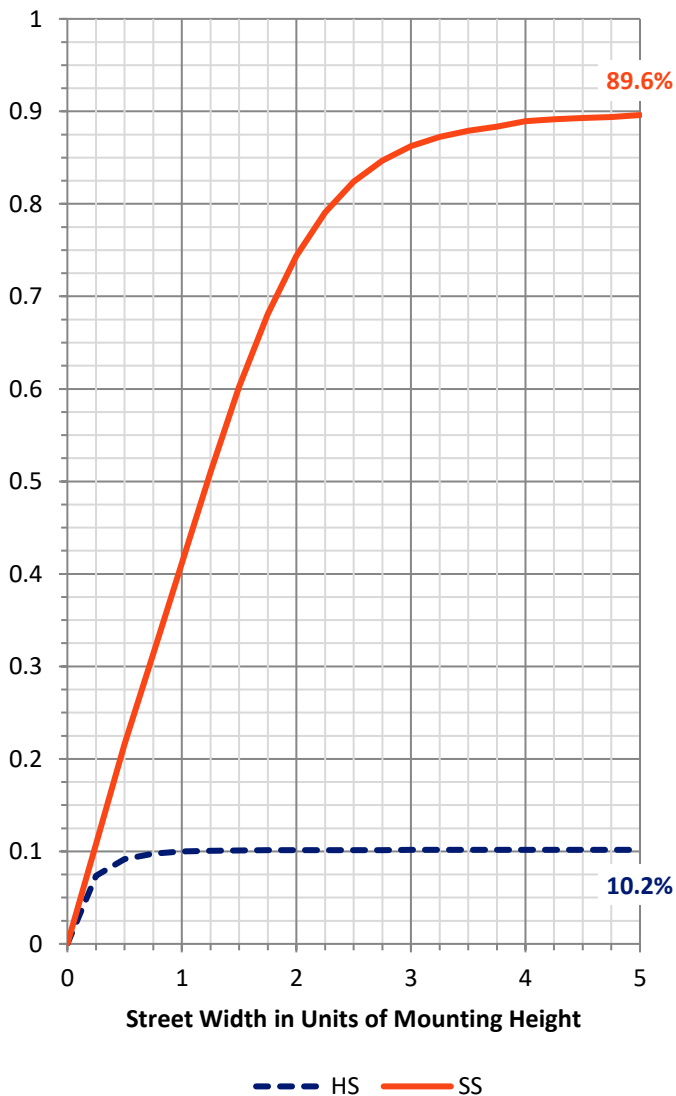
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4851.1	0.0	4851.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	42418.4	0.0	42418.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	47269.5	0.0	47269.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	1.0
10°-20°	1430.2	3.0
20°-30°	2249.2	4.8
30°-40°	3225.3	6.8
40°-50°	5574.6	11.8
50°-60°	11013.1	23.3
60°-70°	15391.8	32.6
70°-80°	7435.9	15.7
80°-90°	477.9	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°	47269.5	100.0
0°-180°	47269.5	100.0

Coefficient of Utilization



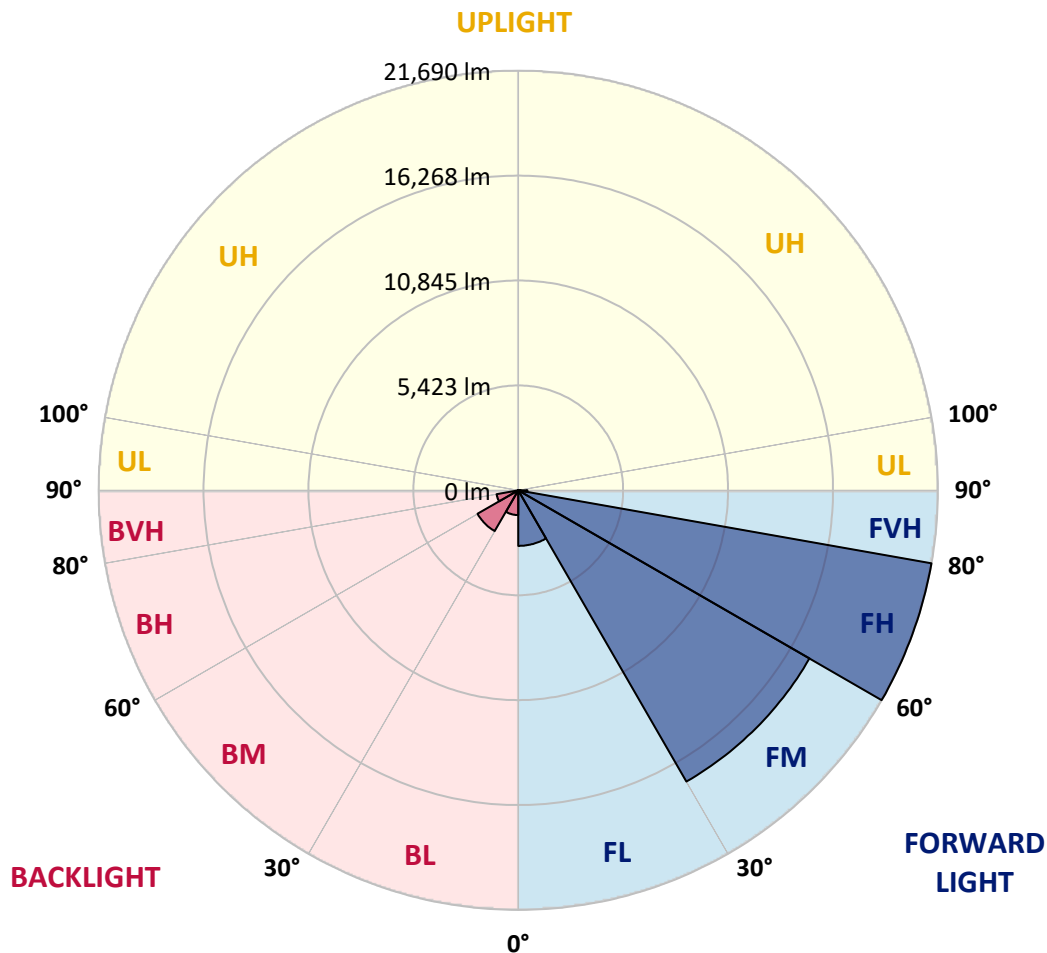
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.2	6.1			
FM (30°-60°)	17382.0	36.8			
FH (60°-80°)	21690.2	45.9			G5
FVH (80°-90°)	473.9	1.0			G3/500
BL (0°-30°)	1278.6	2.7	B3/2500		
BM (30°-60°)	2431.0	5.1	B2/2500		
BH (60°-80°)	1137.5	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3
2.5°	5261.5	5254.9	5223.8	5210.5	5135.2	5090.8	5073.1	5017.7	4937.9	4858.1	4769.4
5°	5859.9	5857.7	5800.1	5744.7	5602.8	5469.9	5445.5	5316.9	5137.4	4969.0	4800.5
7.5°	6471.6	6442.8	6385.2	6278.8	6072.7	5859.9	5840.0	5658.2	5403.3	5159.6	4917.9
10°	6990.2	6972.4	6897.1	6735.4	6493.7	6252.2	6227.8	6003.9	5715.8	5416.7	5108.6
12.5°	7393.6	7380.3	7280.5	7078.8	6821.7	6571.3	6538.1	6338.6	6030.6	5695.9	5332.5
15°	7639.6	7632.9	7511.1	7296.1	7043.4	6826.2	6797.4	6622.3	6336.4	5986.2	5576.2
17.5°	7697.2	7699.4	7573.1	7355.9	7147.6	6992.4	6970.2	6837.3	6598.0	6249.9	5820.0
20°	7568.6	7595.3	7482.2	7293.8	7165.3	7083.3	7065.6	6985.8	6784.1	6456.1	6015.0
22.5°	7386.9	7400.2	7322.6	7196.3	7143.1	7158.7	7149.8	7105.5	6934.8	6633.4	6207.8
25°	7276.1	7276.1	7229.6	7123.2	7158.7	7254.0	7256.2	7247.3	7112.1	6850.6	6442.8
27.5°	7271.7	7258.3	7205.1	7125.4	7222.9	7369.2	7378.0	7437.9	7353.6	7114.3	6735.4
30°	7448.9	7433.5	7320.5	7216.2	7340.4	7497.7	7519.9	7650.7	7608.5	7400.2	7061.1
32.5°	7863.4	7808.0	7557.6	7386.9	7480.0	7668.4	7697.2	7905.6	7972.0	7752.6	7375.8
35°	8430.8	8255.7	7894.5	7710.5	7719.4	7916.6	7943.2	8249.0	8446.3	8076.1	7619.6
37.5°	9213.2	9126.7	8539.4	8047.4	8087.2	8386.4	8464.0	8796.5	8741.1	8253.5	7896.6
40°	10928.5	10793.4	10168.4	8991.5	8439.6	8767.6	8792.0	8969.3	8973.8	8654.6	8472.9
42.5°	13264.6	13209.2	12550.9	10704.7	9133.4	9022.5	9066.8	9366.1	9700.8	9501.2	9492.4
45°	15850.9	15822.1	15124.0	12978.6	10536.3	9858.1	9913.5	10314.7	10955.2	10999.5	11280.9
47.5°	17932.1	17918.8	17517.7	15516.3	12683.9	11274.3	11292.0	11717.6	12843.4	13399.8	13849.7
50°	19829.2	19893.5	19576.6	18262.3	15609.4	13492.8	13450.7	13734.4	15542.9	16453.8	17012.3
52.5°	22466.6	22557.5	21668.7	20824.4	18678.9	16245.4	16212.2	16509.2	18787.5	19470.2	19570.0
55°	24795.9	24640.8	23938.3	23694.5	22422.3	19645.2	19636.4	19897.9	21925.8	22216.2	22400.1
57.5°	25824.3	25764.5	26103.5	26662.1	26343.0	23663.5	23643.4	23444.0	24733.9	24764.9	25330.1
60°	26473.7	26546.8	27586.3	29308.4	30104.0	27987.4	27858.9	26642.1	27415.6	27346.9	27951.9
62.5°	25986.1	26130.2	28000.7	30870.8	32918.7	31761.8	31580.0	29572.1	29707.2	29470.2	30033.1
65°	23397.5	23621.3	26686.4	30576.1	34315.0	34711.7	34527.7	32158.5	31526.8	31136.8	30824.3
67.5°	18998.1	19131.1	22331.4	28011.8	33685.5	36471.4	36433.8	34425.7	32901.0	30855.3	28430.6
69°	15700.2	15831.0	18911.6	25312.4	32300.3	36848.2	36921.3	35152.7	32639.4	29144.3	25190.4
70°	13297.7	13437.4	16307.5	22998.5	30693.5	36673.1	36803.9	35084.0	31890.3	27163.0	22346.9
72.5°	6974.7	7094.4	10039.8	15844.3	25022.0	33674.4	34071.2	32118.6	27032.2	19727.3	13213.5
75°	2191.9	2260.6	3920.6	8282.3	17132.0	26183.4	26274.2	25194.9	19195.4	10851.0	5503.0
77.5°	835.5	815.6	1305.4	3051.8	8661.3	16487.1	17043.3	15744.6	10073.1	3836.4	1270.0
80°	449.9	452.1	678.2	1263.3	3705.7	8472.9	8942.8	7630.7	3579.3	1196.8	292.5
82.5°	195.1	203.9	381.2	669.3	1702.1	3125.0	3359.9	2797.0	1367.4	804.5	108.6
85°	42.1	46.6	184.0	363.5	693.7	877.6	919.8	906.5	871.0	625.0	42.1
87.5°	0.0	0.0	82.0	130.8	175.1	199.4	175.1	228.3	481.0	421.1	22.2
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°	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3	4736.3
2.5°	4740.6	4700.8	4632.0	4556.7	4503.5	4448.1	4403.8	4383.9	4361.7	4346.1	4366.1
5°	4731.8	4654.2	4521.3	4392.7	4299.7	4224.3	4162.2	4137.8	4113.4	4095.7	4093.5
7.5°	4809.4	4700.8	4496.9	4308.5	4164.4	4062.5	3978.3	3942.8	3914.0	3900.7	3889.6
10°	4957.9	4818.2	4545.7	4299.7	4113.4	3940.5	3758.9	3619.2	3528.3	3486.2	3470.8
12.5°	5150.7	4975.6	4638.7	4346.1	4075.8	3743.3	3357.7	3025.2	2810.3	2739.3	2697.2
15°	5376.7	5159.6	4760.6	4406.0	3938.4	3331.1	2677.3	2242.9	2043.4	2003.6	1959.2
17.5°	5593.9	5354.5	4906.9	4417.1	3636.9	2661.8	1961.5	1666.6	1589.1	1615.7	1622.3
20°	5784.5	5547.4	5050.9	4319.6	3089.5	1996.9	1518.1	1445.0	1473.8	1524.9	1533.7
22.5°	5977.4	5733.6	5183.9	4062.5	2389.1	1515.9	1367.4	1385.2	1414.0	1465.0	1473.8
25°	6212.3	5959.7	5308.1	3590.4	1792.9	1289.9	1298.8	1325.3	1354.2	1400.7	1405.1
27.5°	6482.6	6245.6	5390.0	2976.5	1329.8	1185.7	1214.6	1254.4	1283.2	1327.5	1336.4
30°	6841.8	6622.3	5416.7	2340.4	1114.8	1092.6	1105.9	1154.7	1196.8	1236.7	1243.3
32.5°	7178.6	6994.6	5328.0	1766.4	1032.8	1006.2	1006.2	1035.0	1083.8	1121.5	1130.3
35°	7488.9	7369.2	5044.3	1292.1	970.8	926.4	904.3	904.3	935.3	966.3	975.1
37.5°	7898.9	7894.5	4585.5	1030.6	910.9	859.9	813.4	777.9	766.8	773.5	777.9
40°	8601.4	8608.1	3987.1	924.2	859.9	791.3	720.3	656.0	596.2	576.3	574.0
42.5°	9698.5	9598.8	3359.9	873.2	815.6	720.3	613.9	527.4	434.4	405.6	403.4
45°	11440.5	10848.8	2695.1	826.7	769.1	640.5	507.5	390.0	314.7	292.5	292.5
47.5°	13978.2	12491.0	2087.8	775.7	707.0	549.6	383.4	281.5	230.5	219.4	221.6
50°	16602.3	14100.1	1600.2	711.4	631.7	454.3	283.7	203.9	175.1	175.1	177.3
52.5°	18929.4	15279.2	1247.8	642.8	538.5	356.8	215.0	159.6	146.3	144.0	146.3
55°	21108.0	16039.4	955.2	562.9	427.8	266.0	164.0	130.8	121.9	117.5	115.2
57.5°	23209.0	16416.1	715.9	454.3	310.3	192.8	130.8	110.9	101.9	95.3	93.1
60°	24607.6	16110.3	492.0	334.7	215.0	139.6	108.6	95.3	84.2	77.6	75.4
62.5°	25396.6	15274.8	316.9	241.6	153.0	104.1	86.4	79.7	64.3	57.7	57.7
65°	25077.4	13896.2	221.6	172.9	110.9	77.6	64.3	64.3	46.6	37.6	35.5
67.5°	22222.8	11739.7	168.4	128.6	79.7	57.7	48.7	55.4	28.8	17.7	17.7
69°	19120.0	9729.5	144.0	106.4	66.5	46.6	42.1	51.0	19.9	13.3	11.1
70°	16617.8	8393.2	130.8	93.1	55.4	39.9	37.6	48.7	19.9	11.1	8.8
72.5°	9942.3	4680.8	99.8	66.5	35.5	31.0	31.0	55.4	19.9	11.1	8.8
75°	4018.1	1648.9	73.1	46.6	26.5	26.5	37.6	70.9	17.7	8.8	6.6
77.5°	910.9	361.3	42.1	28.8	17.7	26.5	44.3	55.4	11.1	4.5	0.0
80°	221.6	88.7	26.5	17.7	11.1	19.9	33.3	31.0	2.2	0.0	0.0
82.5°	73.1	31.0	11.1	8.8	2.2	6.6	15.6	8.8	0.0	0.0	0.0
85°	31.0	17.7	4.5	2.2	0.0	0.0	2.2	0.0	0.0	0.0	0.0
87.5°	19.9	6.6	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)