

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: P322571

Luminaire Tested: **GAN-SA7C-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35528 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

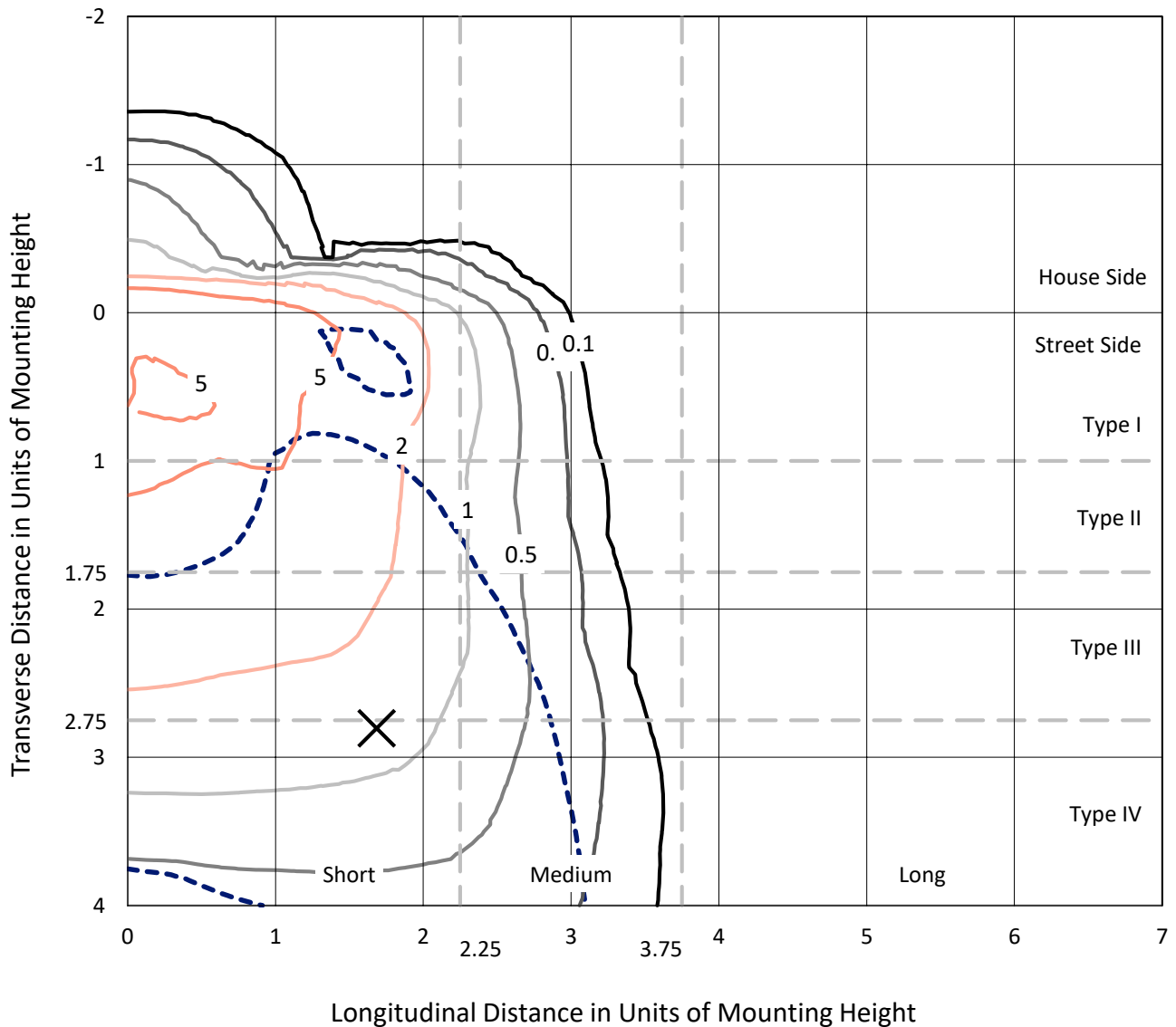
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

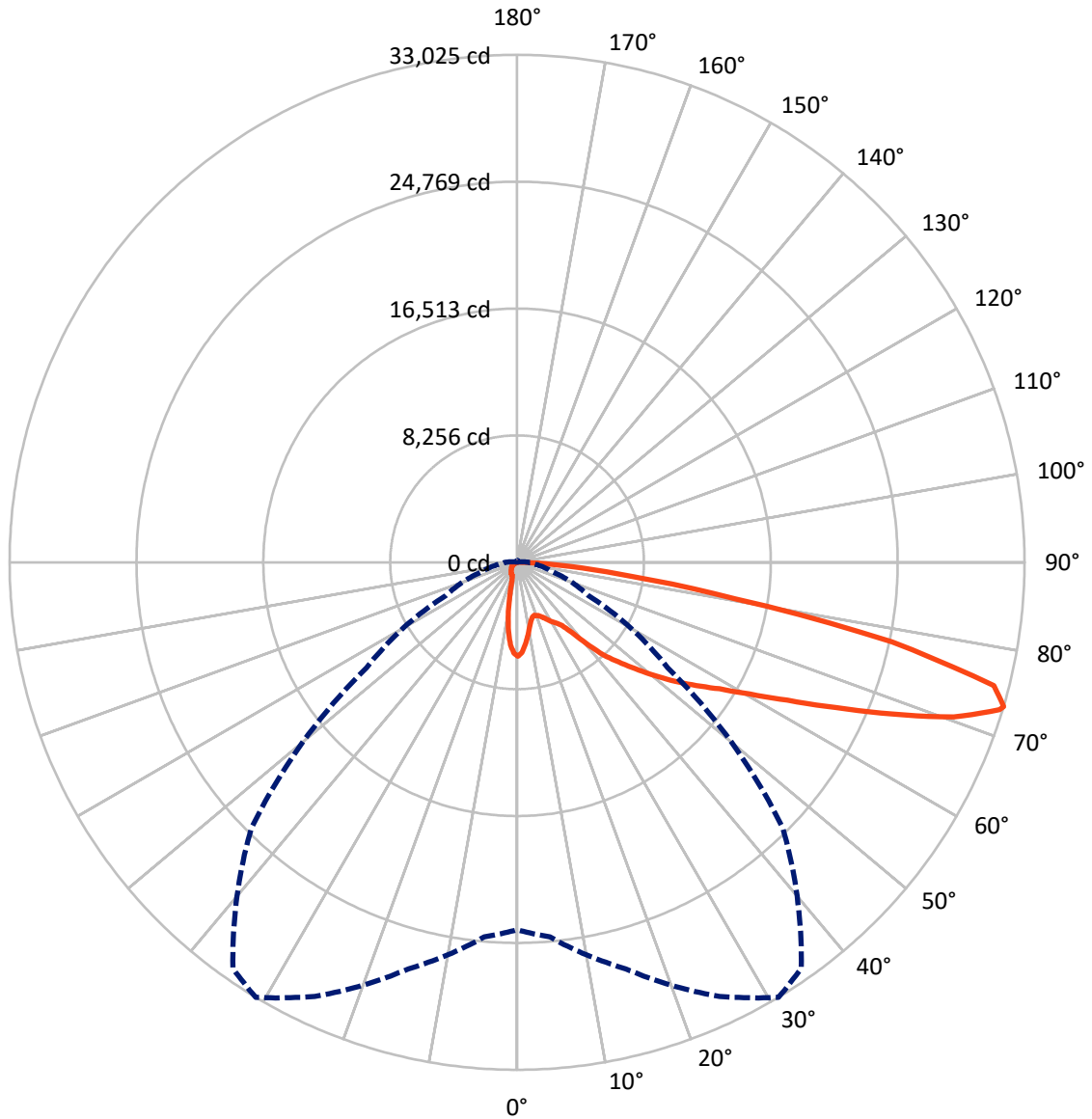
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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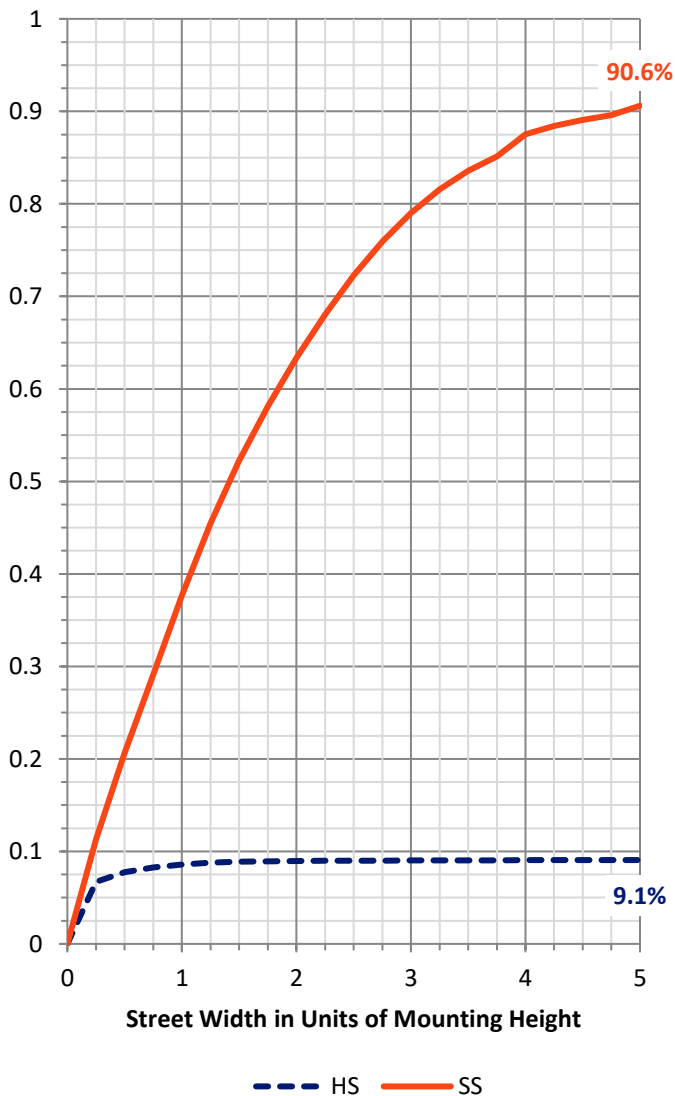
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3238.5	0.0	3238.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32289.5	0.0	32289.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	35528.0	0.0	35528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	1.4
10°-20°	1100.5	3.1
20°-30°	1648.8	4.6
30°-40°	2623.3	7.4
40°-50°	4684.4	13.2
50°-60°	7268.9	20.5
60°-70°	9663.0	27.2
70°-80°	7268.5	20.5
80°-90°	763.8	2.1
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°	35528.0	100.0
0°-180°	35528.0	100.0

Coefficient of Utilization



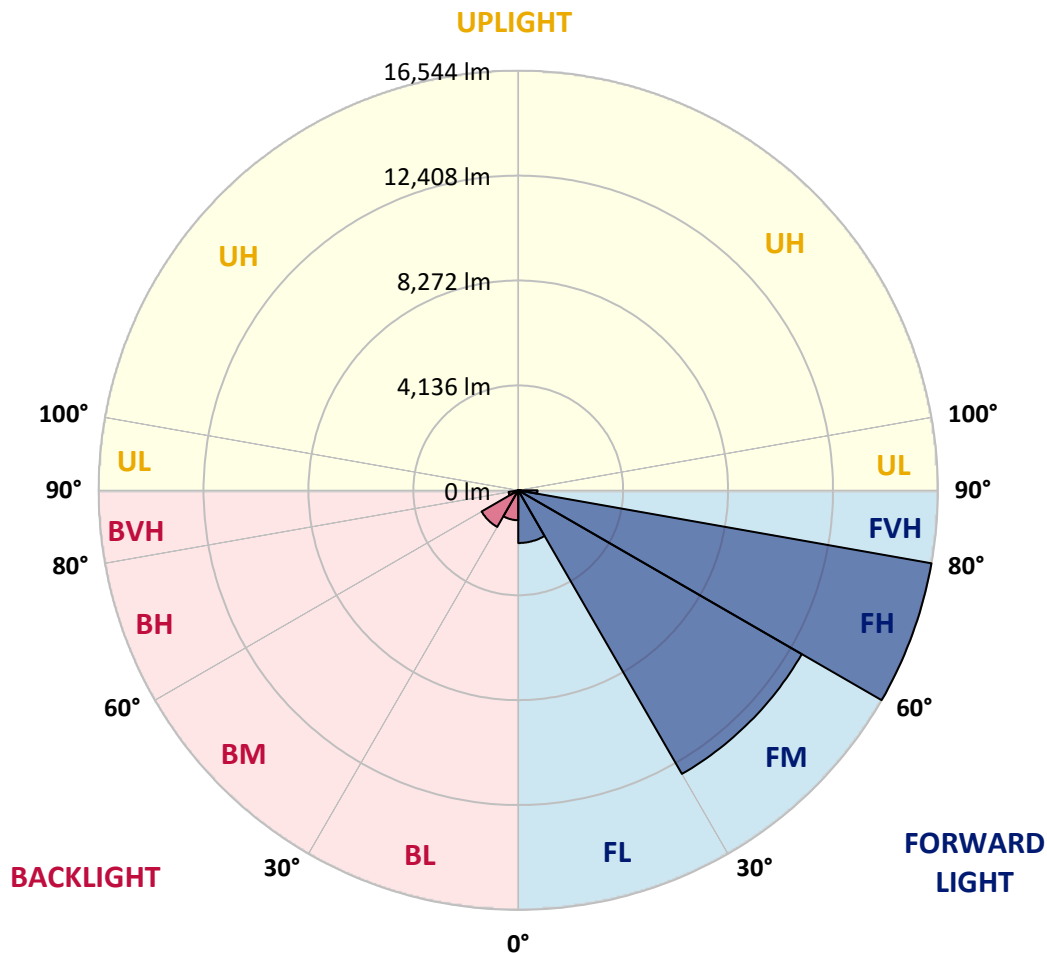
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.4	5.9			
FM (30°-60°)	12909.6	36.3			
FH (60°-80°)	16544.1	46.6			G5
FVH (80°-90°)	757.3	2.1			G5
BL (0°-30°)	1177.7	3.3	B3/2500		
BM (30°-60°)	1667.0	4.7	B2/2500		
BH (60°-80°)	387.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7
2.5°	5792.8	5817.1	5843.2	5848.4	5891.9	5893.6	5956.2	6003.1	6050.1	6095.3	6110.9
5°	5198.2	5238.2	5285.1	5332.1	5424.2	5460.7	5613.7	5770.2	5919.7	6062.2	6131.8
7.5°	4563.6	4608.8	4674.9	4791.4	4894.0	4965.2	5206.9	5485.1	5763.2	6025.7	6177.0
10°	3984.7	4026.4	4096.0	4219.4	4377.6	4475.0	4800.1	5186.0	5594.6	5992.7	6244.8
12.5°	3616.1	3638.7	3677.0	3809.1	3951.7	4061.2	4443.7	4921.8	5455.5	5991.0	6354.3
15°	3548.3	3555.3	3524.0	3583.1	3694.4	3800.4	4188.1	4707.9	5349.5	6018.8	6496.9
17.5°	3656.1	3652.6	3548.3	3541.4	3630.0	3717.0	4062.9	4560.2	5274.7	6083.1	6681.2
20°	3819.5	3807.4	3626.6	3593.5	3687.4	3769.1	4054.2	4504.5	5246.9	6190.9	6905.4
22.5°	4036.9	4016.0	3732.6	3697.8	3798.7	3883.9	4162.0	4558.4	5271.2	6335.2	7166.2
25°	4306.3	4275.0	3915.2	3876.9	3979.5	4064.7	4355.0	4713.1	5344.2	6510.8	7496.5
27.5°	4610.6	4565.4	4207.2	4108.1	4224.6	4313.3	4612.3	4949.6	5459.0	6696.8	7901.6
30°	4897.4	4838.3	4515.0	4351.5	4494.1	4593.2	4890.5	5231.2	5643.3	6983.7	8456.2
32.5°	5186.0	5120.0	4789.6	4594.9	4723.6	4831.4	5177.3	5618.9	5989.2	7421.8	9193.3
35°	5850.1	5780.6	5375.5	5053.9	5052.2	5113.0	5578.9	6149.2	6446.5	8032.0	10073.0
37.5°	6968.0	6928.0	6542.1	5931.9	5768.4	5700.6	6126.6	6782.0	7103.6	8871.7	11065.7
40°	8191.9	8157.2	7724.3	7171.4	6922.8	6755.9	6912.4	7663.4	8032.0	9897.4	12079.3
42.5°	9574.1	9408.9	8637.0	8471.8	8249.3	8122.4	7981.6	8750.0	9172.5	11013.6	13084.2
45°	10829.3	10551.1	9549.7	9299.4	9249.0	9280.3	9358.5	10210.4	10455.5	12340.1	14085.6
47.5°	11576.9	11357.8	10589.4	10349.5	10335.6	10542.4	11133.5	11860.2	11733.3	13496.2	14967.0
50°	12287.9	12089.7	11451.7	11510.8	11575.1	11856.8	13148.5	13557.0	12899.9	14544.5	15775.4
52.5°	12863.4	12560.9	12227.1	12559.1	12875.5	13329.3	15227.8	15080.0	13727.4	15379.0	16467.3
55°	13195.4	13058.1	13219.8	13553.6	14148.1	14885.3	17190.6	16347.4	14332.4	16140.5	16928.0
57.5°	14412.4	14142.9	14464.6	14753.2	15528.5	16559.5	18871.7	17291.4	14768.8	16611.6	17034.1
60°	15884.9	15667.6	15857.1	16336.9	17383.5	18595.3	20443.4	18061.6	14996.5	16914.1	16759.4
62.5°	18228.5	17941.6	17823.4	18360.6	19747.9	21071.0	21636.0	18595.3	14946.1	16780.3	15817.1
65°	21368.3	21071.0	20542.4	21029.2	22793.8	23727.4	22969.4	18708.3	14598.4	15697.2	13435.3
67.5°	24584.5	24368.9	23916.9	24737.5	26330.0	26630.8	24379.4	18433.6	13478.8	12727.8	9492.4
70°	26709.0	26616.9	26910.7	28725.7	30146.1	30059.2	25672.8	16957.6	10505.9	7826.9	4695.8
72.5°	25177.4	25619.0	27788.6	31079.7	32814.7	32105.4	25008.7	13021.6	6004.9	3011.1	1357.8
73°	23908.2	24473.3	27394.0	31168.3	33025.1	32248.0	24450.7	11952.4	5118.2	2376.6	1029.2
75°	16632.5	17326.2	22679.1	29028.2	32041.1	30725.0	20380.8	7315.7	2371.4	1053.5	415.5
77.5°	8075.5	8588.3	12487.8	20973.6	24918.3	24005.6	12687.8	2726.0	1070.9	658.9	191.2
80°	3014.6	3351.9	5420.7	10674.6	14400.2	14777.5	5580.7	1030.9	712.8	530.3	97.4
82.5°	789.3	879.7	1999.3	4760.1	7380.1	7724.3	1759.4	519.8	521.6	436.4	59.1
85°	252.1	288.6	624.1	2136.7	3477.1	3052.9	459.0	252.1	379.0	325.1	33.0
87.5°	31.3	40.0	198.2	502.4	766.7	425.9	71.3	74.8	161.7	180.8	19.1
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°	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7	6112.7
2.5°	6126.6	6117.9	6119.6	6074.4	6044.9	5985.8	5924.9	5897.1	5867.5	5855.4	5867.5
5°	6157.9	6142.2	6097.0	5957.9	5810.2	5618.9	5439.9	5304.2	5133.9	5086.9	5135.6
7.5°	6206.5	6175.3	6043.1	5759.7	5431.2	5066.1	4655.8	4356.8	4111.6	3953.4	4010.8
10°	6277.8	6218.7	5952.7	5471.1	4883.5	4236.8	3654.4	3200.6	2879.0	2746.9	2741.7
12.5°	6397.8	6286.5	5841.5	5095.6	4214.2	3351.9	2588.7	2096.7	1835.9	1667.2	1663.8
15°	6529.9	6366.5	5700.6	4645.3	3435.3	2400.9	1667.2	1293.5	1124.8	1070.9	1064.0
17.5°	6691.6	6458.6	5518.1	4090.8	2620.0	1590.8	1088.3	980.5	973.6	968.4	968.4
20°	6895.0	6568.2	5283.4	3456.2	1858.5	1062.2	924.9	931.9	935.3	928.4	930.1
22.5°	7131.4	6679.4	5003.5	2774.7	1257.0	888.4	884.9	893.6	897.1	893.6	895.3
25°	7406.1	6808.1	4662.7	2060.2	907.5	843.2	851.9	864.0	872.7	872.7	872.7
27.5°	7746.9	6964.5	4252.4	1437.8	784.1	796.2	820.6	843.2	855.4	858.8	858.8
30°	8190.2	7159.3	3760.4	985.7	712.8	733.7	778.9	822.3	844.9	848.4	850.1
32.5°	8750.0	7378.3	3190.2	728.4	651.9	667.6	716.3	789.3	832.8	839.7	839.7
35°	9391.5	7632.1	2576.5	634.6	608.5	613.7	651.9	735.4	811.9	831.0	832.8
37.5°	10093.9	7882.5	1959.3	592.8	572.0	572.0	599.8	671.1	761.5	820.6	827.5
40°	10749.3	8033.7	1373.4	559.8	538.9	538.9	563.3	615.4	700.6	789.3	808.4
42.5°	11354.3	8085.9	956.2	528.5	507.7	512.9	533.7	575.5	639.8	728.4	745.8
45°	11976.7	8077.2	697.1	492.0	476.4	492.0	507.7	538.9	585.9	636.3	639.8
47.5°	12446.1	8004.2	552.9	457.2	446.8	467.7	481.6	502.4	528.5	525.0	525.0
50°	12886.0	7826.9	445.1	410.3	417.2	441.6	448.5	455.5	457.2	424.2	420.7
52.5°	13219.8	7550.4	356.4	359.9	387.7	412.0	405.1	394.6	377.3	337.3	330.3
55°	13331.0	7018.4	279.9	297.3	344.2	375.5	349.4	326.8	293.8	260.8	253.8
57.5°	13129.4	6331.7	227.7	231.2	290.3	316.4	286.9	260.8	224.3	196.5	191.2
60°	12701.7	5568.5	187.8	173.9	224.3	246.9	227.7	201.7	168.6	147.8	146.0
62.5°	11853.3	4754.9	154.7	135.6	170.4	189.5	177.3	158.2	130.4	116.5	114.7
65°	10069.6	3803.9	125.2	109.5	132.1	147.8	137.3	123.4	102.6	92.1	90.4
67.5°	7028.9	2571.3	102.6	90.4	104.3	116.5	107.8	100.8	81.7	80.0	81.7
70°	3390.1	1239.6	85.2	73.0	81.7	90.4	86.9	81.7	78.2	90.4	104.3
72.5°	971.8	415.5	67.8	60.8	66.1	71.3	74.8	73.0	85.2	109.5	126.9
73°	747.6	335.5	64.3	57.4	62.6	69.5	73.0	71.3	86.9	111.3	126.9
75°	319.9	161.7	48.7	46.9	52.2	60.8	64.3	64.3	86.9	113.0	121.7
77.5°	144.3	86.9	31.3	36.5	45.2	48.7	53.9	53.9	69.5	86.9	86.9
80°	81.7	46.9	24.3	27.8	33.0	33.0	33.0	29.6	31.3	34.8	38.2
82.5°	52.2	31.3	19.1	22.6	20.9	17.4	13.9	13.9	12.2	13.9	17.4
85°	29.6	17.4	17.4	13.9	8.7	7.0	8.7	7.0	1.7	0.0	1.7
87.5°	17.4	10.4	5.2	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)