

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: P383602

Luminaire Tested: **GAN-SA8D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383602
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-SA8D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA 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: 41137.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

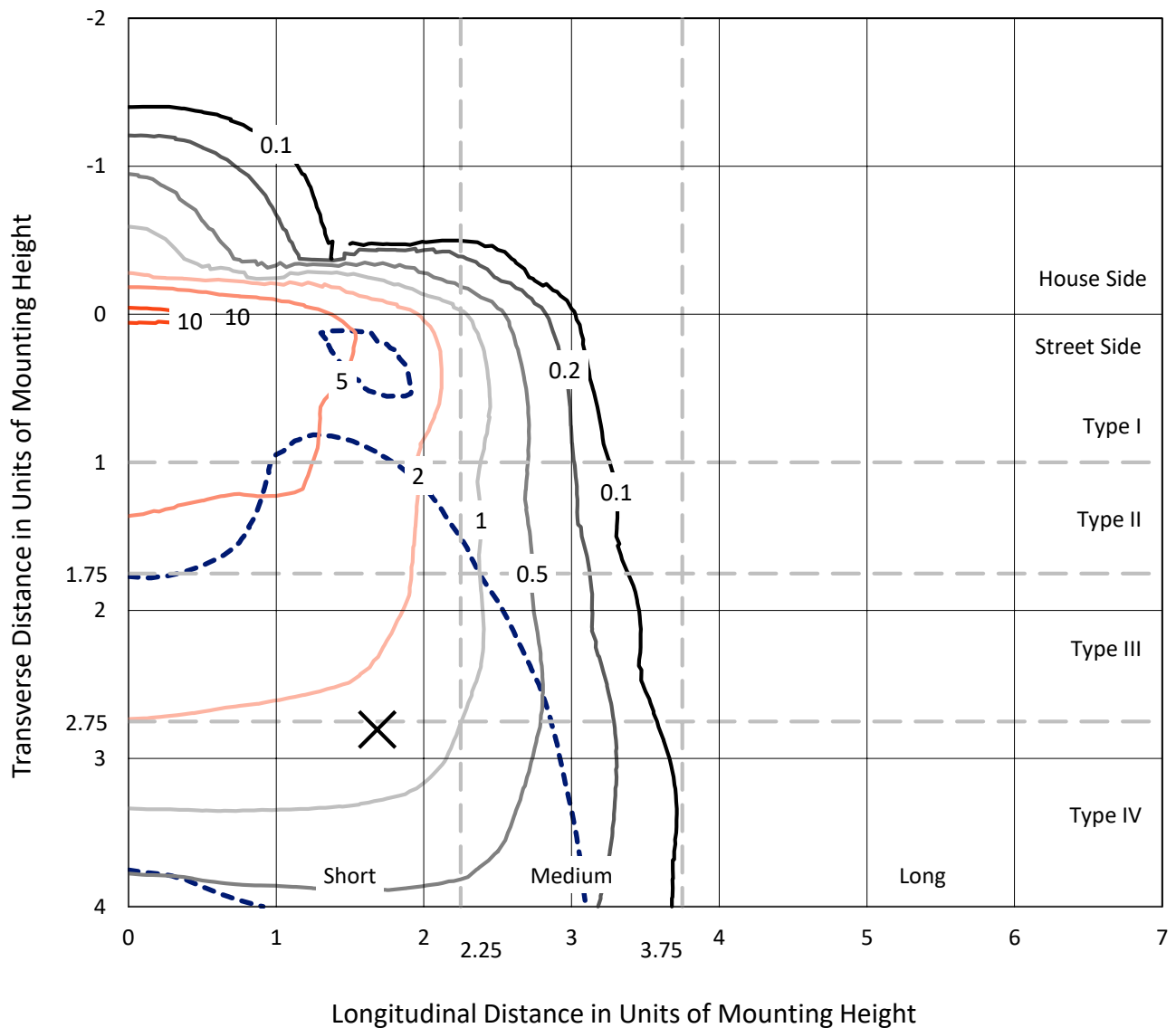
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

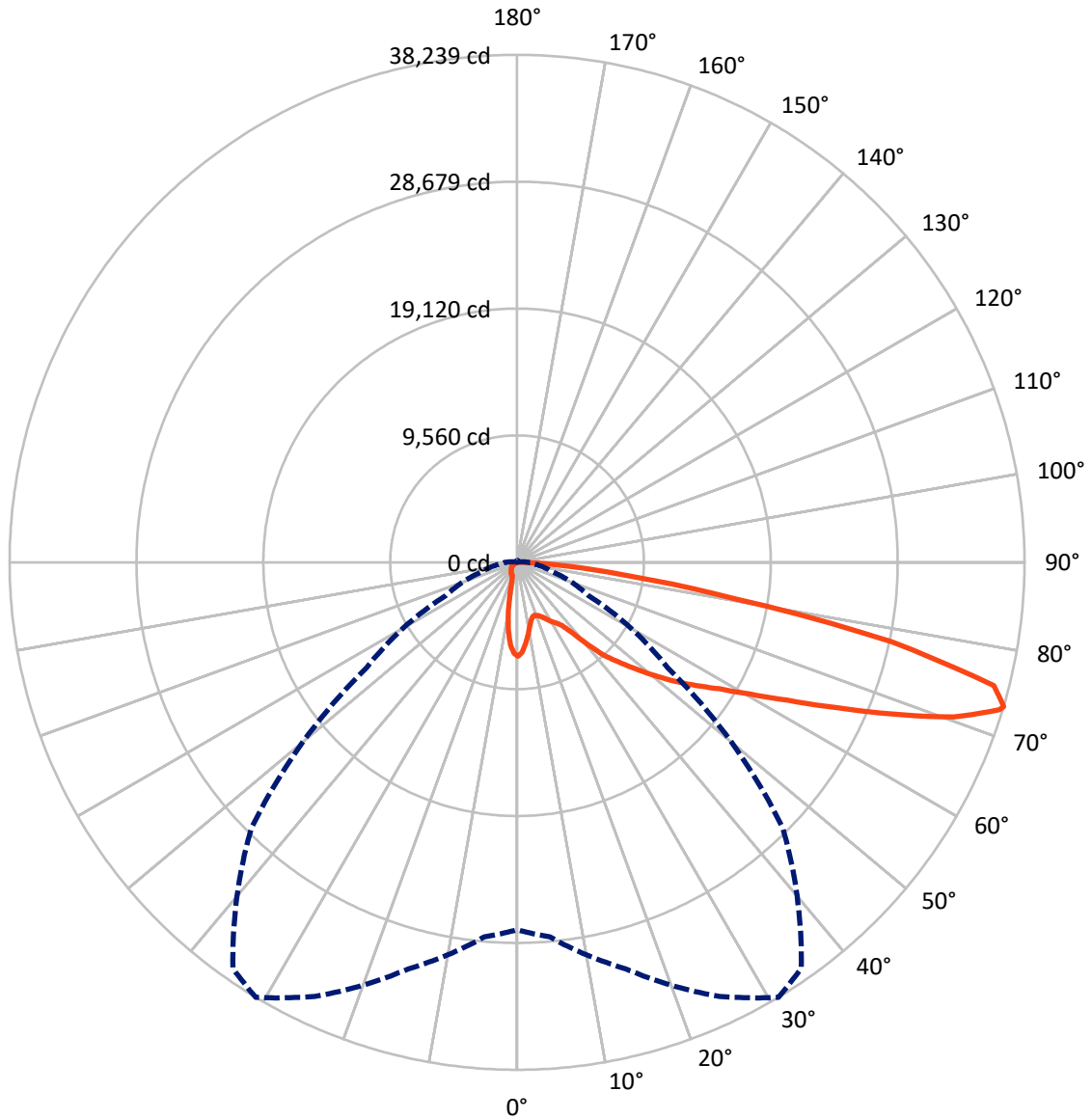
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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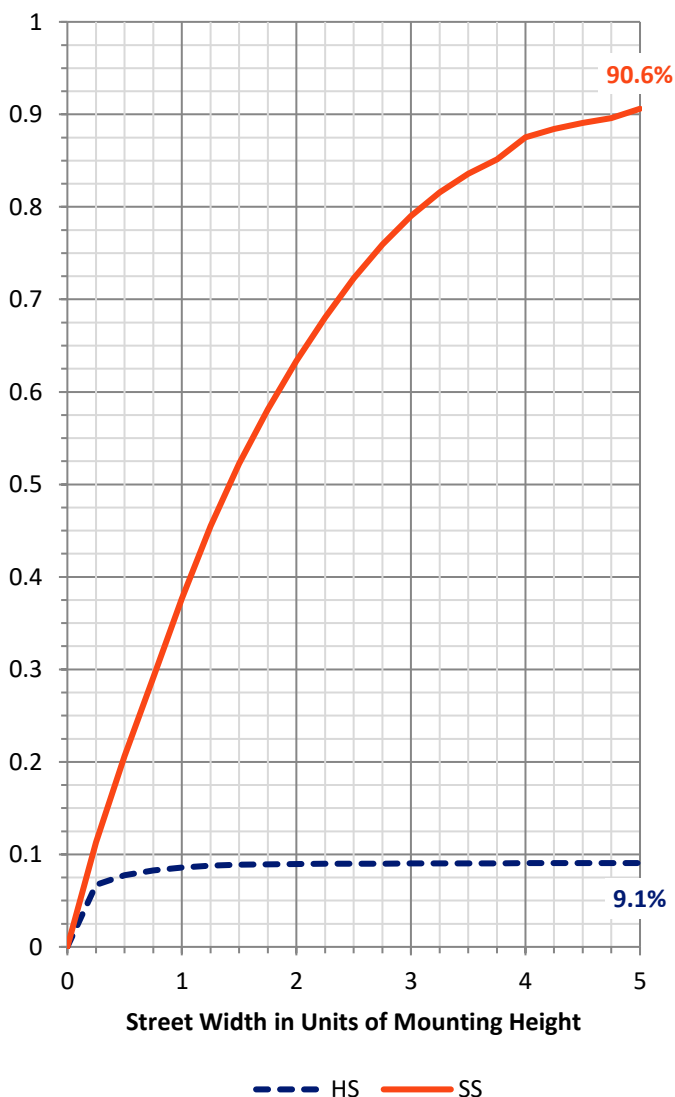
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3749.8	0.0	3749.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	37387.4	0.0	37387.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	41137.1	0.0	41137.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.8	1.4
10°-20°	1274.2	3.1
20°-30°	1909.1	4.6
30°-40°	3037.4	7.4
40°-50°	5424.0	13.2
50°-60°	8416.5	20.5
60°-70°	11188.6	27.2
70°-80°	8416.1	20.5
80°-90°	884.4	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°	41137.1	100.0
0°-180°	41137.1	100.0

Coefficient of Utilization

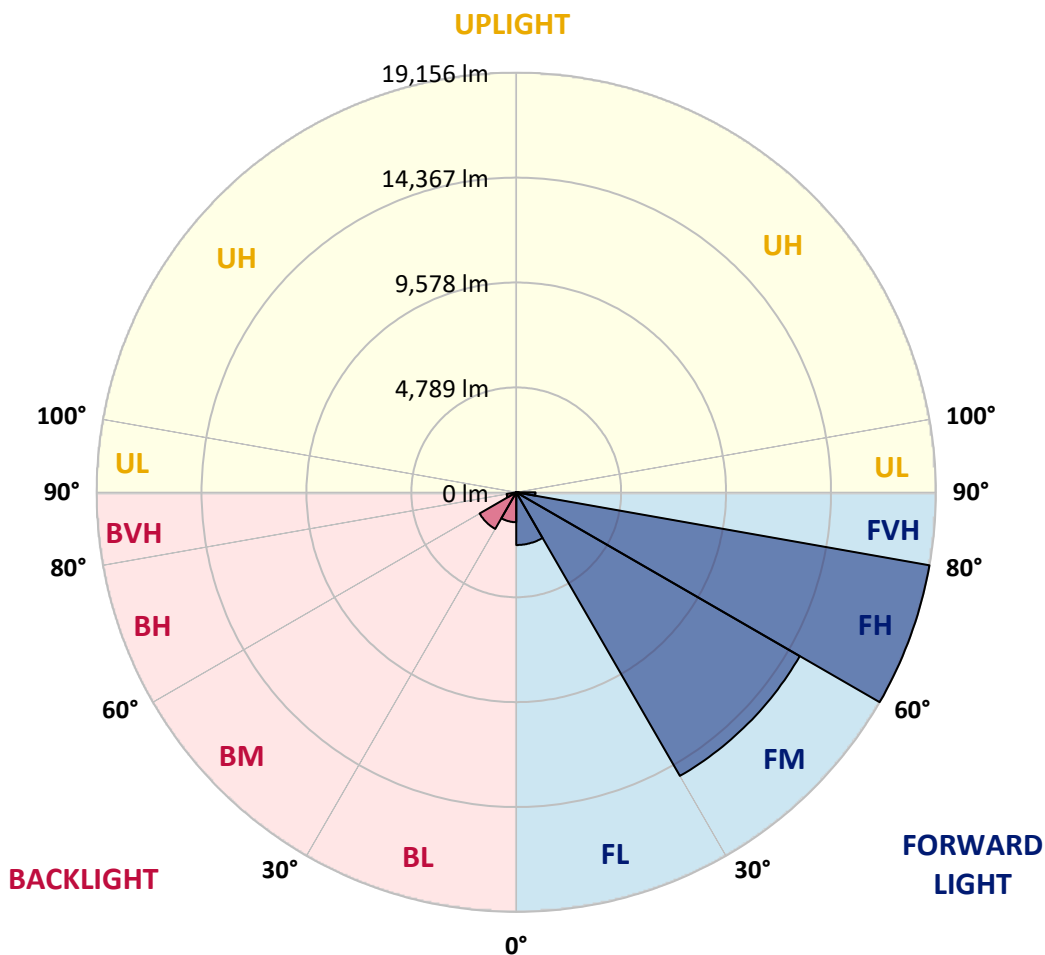


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.6	5.9			
FM (30°-60°)	14947.8	36.3			
FH (60°-80°)	19156.0	46.6			G5
FVH (80°-90°)	876.9	2.1			G5
BL (0°-30°)	1363.6	3.3	B3/2500		
BM (30°-60°)	1930.1	4.7	B2/2500		
BH (60°-80°)	448.6	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	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°	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7
2.5°	6707.3	6735.6	6765.7	6771.8	6822.1	6824.1	6896.5	6950.9	7005.2	7057.6	7075.8
5°	6018.9	6065.2	6119.5	6173.9	6280.6	6322.9	6500.0	6681.2	6854.3	7019.4	7099.9
7.5°	5284.1	5336.5	5412.9	5547.8	5666.6	5749.1	6029.0	6351.0	6673.1	6977.1	7152.2
10°	4613.8	4662.1	4742.6	4885.6	5068.7	5181.5	5557.9	6004.8	6477.9	6938.8	7230.7
12.5°	4187.0	4213.2	4257.5	4410.5	4575.6	4702.4	5145.2	5698.8	6316.8	6936.9	7357.5
15°	4108.6	4116.6	4080.4	4148.8	4277.7	4400.4	4849.4	5451.2	6194.0	6969.0	7522.6
17.5°	4233.3	4229.3	4108.6	4100.5	4203.1	4303.8	4704.4	5280.1	6107.5	7043.5	7735.9
20°	4422.6	4408.5	4199.1	4160.9	4269.6	4364.2	4694.3	5215.7	6075.3	7168.4	7995.7
22.5°	4674.2	4650.0	4321.9	4281.7	4398.4	4497.0	4819.2	5278.1	6103.4	7335.4	8297.6
25°	4986.2	4950.0	4533.3	4489.0	4607.8	4706.4	5042.6	5457.3	6188.0	7538.7	8680.1
27.5°	5338.5	5286.2	4871.4	4756.8	4891.6	4994.3	5340.5	5731.1	6320.8	7754.1	9149.1
30°	5670.6	5602.2	5227.8	5038.6	5203.6	5318.4	5662.6	6057.1	6534.2	8086.2	9791.2
32.5°	6004.8	5928.3	5545.9	5320.3	5469.3	5594.1	5994.7	6506.0	6934.8	8593.5	10644.8
35°	6773.7	6693.3	6224.2	5851.8	5849.8	5920.3	6459.7	7120.0	7464.2	9300.1	11663.3
37.5°	8068.1	8021.8	7575.0	6868.4	6679.2	6600.7	7093.8	7852.8	8225.1	10272.4	12812.8
40°	9485.3	9445.1	8943.8	8303.6	8015.8	7822.6	8003.7	8873.4	9300.1	11460.1	13986.3
42.5°	11085.6	10894.4	10000.6	9809.4	9551.7	9404.7	9241.7	10131.4	10620.6	12752.4	15149.9
45°	12539.0	12217.0	11057.5	10767.6	10709.2	10745.4	10836.0	11822.4	12106.2	14288.4	16309.3
47.5°	13404.6	13150.9	12261.2	11983.4	11967.3	12206.9	12891.3	13732.7	13585.8	15627.0	17330.0
50°	14227.9	13998.5	13259.6	13328.1	13402.6	13728.7	15224.4	15697.4	14936.5	16840.8	18266.0
52.5°	14894.2	14544.0	14157.5	14541.9	14908.3	15433.7	17632.0	17460.8	15894.7	17807.1	19067.2
55°	15278.7	15119.7	15306.9	15693.4	16381.8	17235.4	19904.6	18928.3	16595.2	18688.7	19600.6
57.5°	16687.8	16375.8	16748.2	17082.3	17980.2	19173.9	21851.2	20021.4	17100.5	19234.3	19723.5
60°	18392.8	18141.2	18360.6	18916.2	20128.0	21531.1	23670.9	20913.2	17364.2	19584.6	19405.3
62.5°	21106.4	20774.3	20637.3	21259.3	22865.8	24397.6	25051.8	21531.1	17305.8	19429.6	18314.3
65°	24741.9	24397.6	23785.7	24349.4	26392.5	27473.5	26595.9	21661.9	16903.2	18175.4	15556.5
67.5°	28466.0	28216.3	27693.0	28643.0	30486.9	30835.3	28228.4	21343.9	15606.9	14737.2	10991.1
70°	30925.8	30819.1	31159.3	33260.9	34905.6	34804.9	29726.1	19634.9	12164.6	9062.6	5437.2
72.5°	29152.3	29663.6	32175.9	35986.5	37995.5	37174.2	28957.1	15077.4	6952.9	3486.5	1572.2
73°	27682.9	28337.1	31718.9	36089.2	38239.1	37339.2	28310.9	13839.4	5926.3	2751.8	1191.7
75°	19258.4	20061.6	26259.7	33611.2	37099.7	35575.9	23598.4	8470.7	2745.7	1219.9	481.1
77.5°	9350.4	9944.3	14459.4	24284.9	28852.5	27795.6	14690.9	3156.4	1240.0	762.9	221.4
80°	3490.5	3881.1	6276.6	12359.9	16673.8	17110.6	6461.8	1193.7	825.4	614.0	112.7
82.5°	913.9	1018.6	2315.0	5511.6	8545.2	8943.8	2037.2	601.9	603.9	505.3	68.5
85°	291.9	334.1	722.7	2474.0	4026.1	3534.9	531.4	291.9	438.9	376.4	38.3
87.5°	36.2	46.3	229.4	581.8	887.8	493.2	82.5	86.5	187.2	209.3	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°	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7	7077.7
2.5°	7093.8	7083.8	7085.8	7033.5	6999.2	6930.8	6860.3	6828.2	6793.9	6779.8	6793.9
5°	7130.1	7112.0	7059.6	6898.6	6727.5	6506.0	6298.7	6141.7	5944.4	5890.1	5946.4
7.5°	7186.4	7150.2	6997.2	6669.1	6288.6	5865.9	5390.9	5044.6	4760.8	4577.5	4644.0
10°	7269.0	7200.5	6892.5	6334.9	5654.5	4905.7	4231.4	3706.0	3333.5	3180.6	3174.5
12.5°	7407.9	7279.0	6763.7	5900.1	4879.5	3881.1	2997.3	2427.7	2125.7	1930.4	1926.4
15°	7560.8	7371.6	6600.7	5378.8	3977.7	2779.9	1930.4	1497.6	1302.4	1240.0	1232.0
17.5°	7748.1	7478.3	6389.3	4736.6	3033.6	1841.9	1260.1	1135.4	1127.3	1121.2	1121.2
20°	7983.5	7605.2	6117.6	4001.8	2151.9	1229.9	1070.9	1079.0	1083.0	1074.9	1077.0
22.5°	8257.3	7734.0	5793.4	3212.7	1455.4	1028.6	1024.6	1034.7	1038.7	1034.7	1036.7
25°	8575.4	7882.9	5398.9	2385.4	1050.8	976.3	986.4	1000.5	1010.5	1010.5	1010.5
27.5°	8970.0	8064.1	4923.8	1664.8	907.9	922.0	950.2	976.3	990.4	994.4	994.4
30°	9483.2	8289.6	4354.1	1141.3	825.4	849.5	901.8	952.1	978.3	982.3	984.4
32.5°	10131.4	8543.2	3693.9	843.4	754.8	773.0	829.4	913.9	964.2	972.3	972.3
35°	10874.2	8837.1	2983.3	734.7	704.5	710.6	754.8	851.5	940.1	962.2	964.2
37.5°	11687.5	9126.9	2268.7	686.5	662.2	662.2	694.5	777.0	881.7	950.2	958.2
40°	12446.4	9302.1	1590.2	648.2	624.0	624.0	652.2	712.6	811.3	913.9	936.0
42.5°	13146.9	9362.5	1107.1	611.9	587.8	593.9	618.0	666.3	740.8	843.4	863.5
45°	13867.6	9352.5	807.2	569.6	551.6	569.6	587.8	624.0	678.4	736.8	740.8
47.5°	14411.1	9267.9	640.2	529.4	517.4	541.5	557.6	581.8	611.9	607.9	607.9
50°	14920.4	9062.6	515.3	475.1	483.1	511.3	519.3	527.4	529.4	491.2	487.1
52.5°	15306.9	8742.5	412.7	416.7	448.9	477.0	469.0	456.9	436.8	390.5	382.5
55°	15435.7	8126.5	324.1	344.2	398.6	434.8	404.6	378.5	340.2	301.9	293.9
57.5°	15202.2	7331.4	263.7	267.7	336.2	366.4	332.2	301.9	259.7	227.5	221.4
60°	14707.0	6447.6	217.4	201.3	259.7	285.9	263.7	233.5	195.3	171.1	169.1
62.5°	13724.7	5505.5	179.1	157.1	197.3	219.4	205.3	183.1	151.0	134.9	132.8
65°	11659.3	4404.5	144.9	126.8	153.0	171.1	159.0	142.9	118.8	106.7	104.7
67.5°	8138.6	2977.2	118.8	104.7	120.8	134.9	124.8	116.7	94.6	92.6	94.6
70°	3925.4	1435.2	98.7	84.6	94.6	104.7	100.6	94.6	90.5	104.7	120.8
72.5°	1125.3	481.1	78.5	70.4	76.5	82.5	86.5	84.6	98.7	126.8	146.9
73°	865.6	388.5	74.5	66.4	72.5	80.5	84.6	82.5	100.6	128.8	146.9
75°	370.4	187.2	56.4	54.3	60.4	70.4	74.5	74.5	100.6	130.9	140.9
77.5°	167.1	100.6	36.2	42.3	52.4	56.4	62.4	62.4	80.5	100.6	100.6
80°	94.6	54.3	28.2	32.2	38.3	38.3	38.3	34.2	36.2	40.2	44.2
82.5°	60.4	36.2	22.2	26.2	24.1	20.1	16.1	16.1	14.1	16.1	20.1
85°	34.2	20.1	20.1	16.1	10.1	8.0	10.1	8.0	2.0	0.0	2.0
87.5°	20.1	12.1	6.1	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)