

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: P317812

Luminaire Tested: **GAN-SA8C-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57958 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

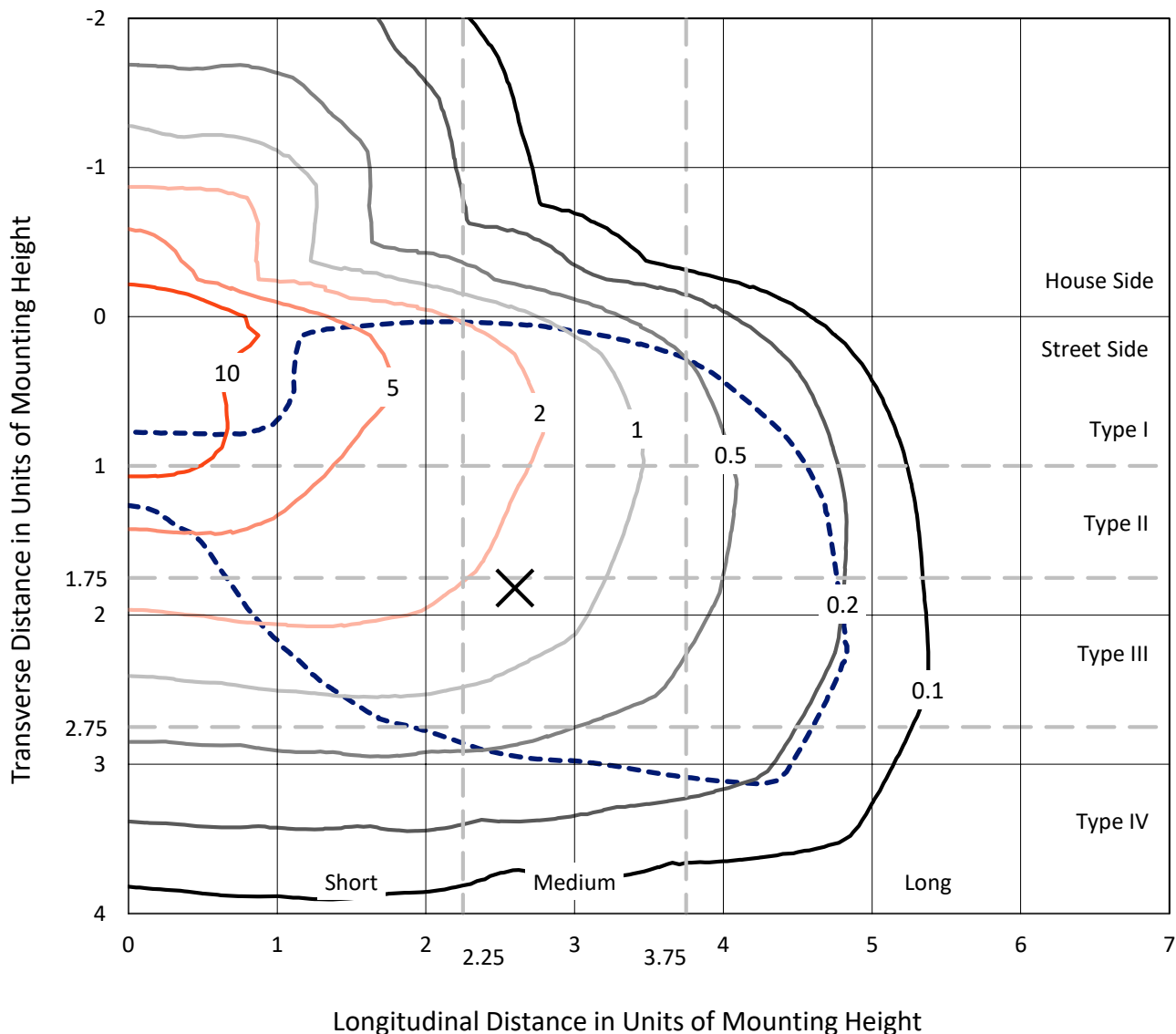
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

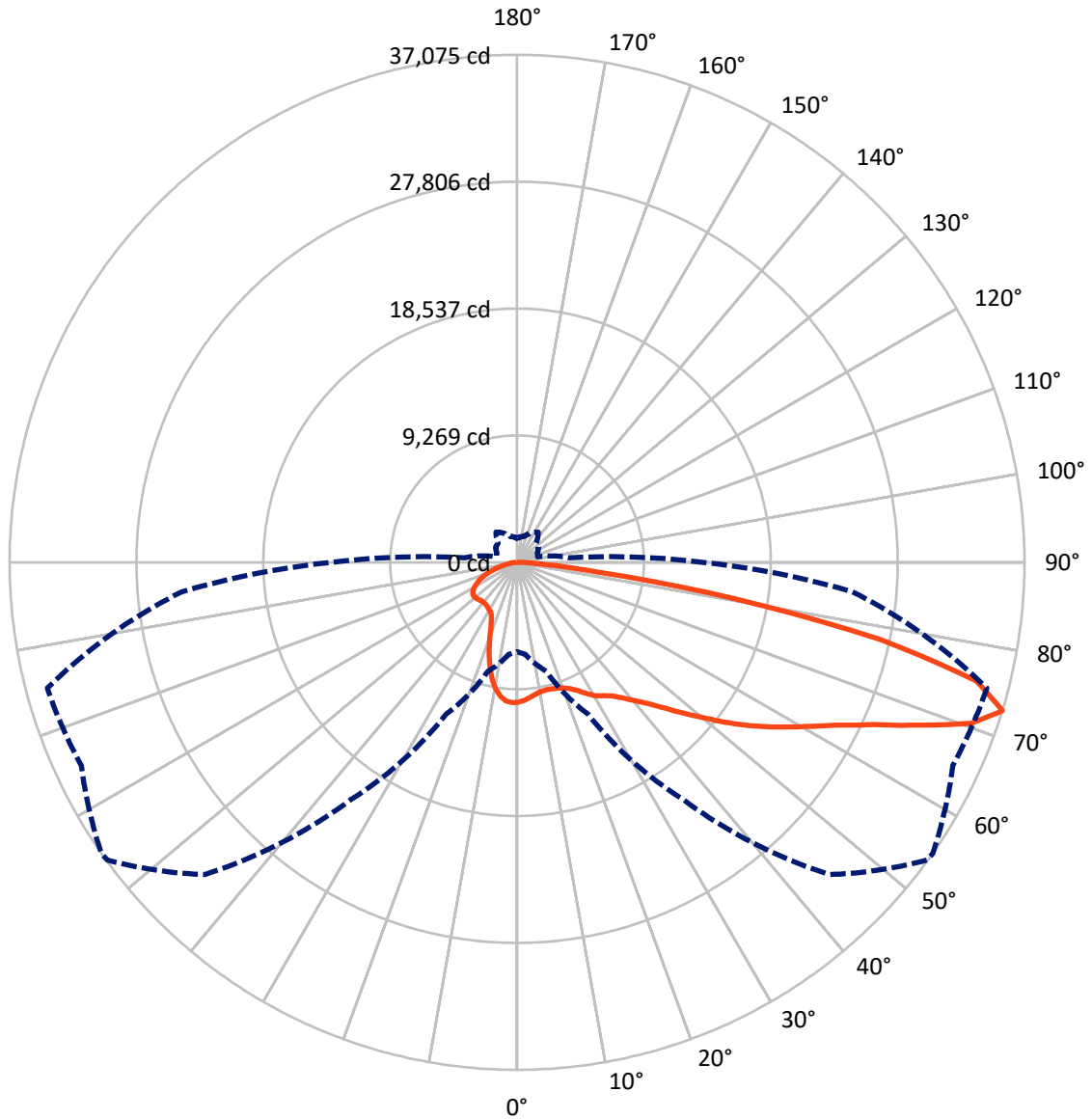
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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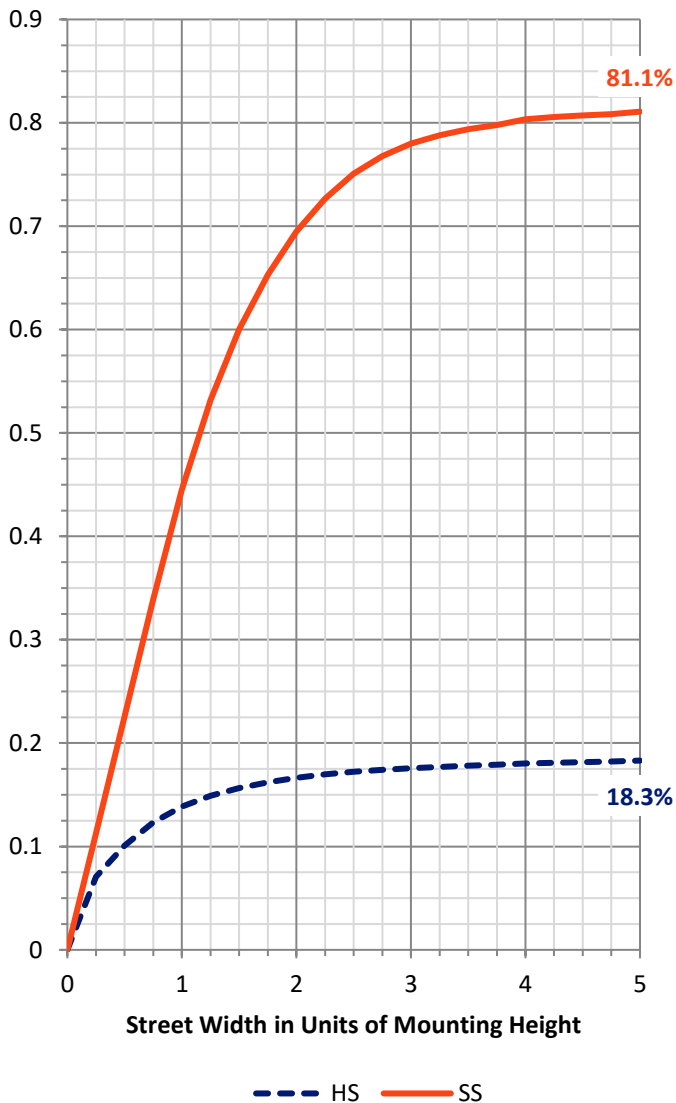
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10772.5	0.0	10772.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	47185.5	0.0	47185.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	57958.0	0.0	57958.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.0	1.6
10°-20°	2462.7	4.2
20°-30°	4060.5	7.0
30°-40°	6006.4	10.4
40°-50°	8383.7	14.5
50°-60°	10915.9	18.8
60°-70°	13415.3	23.1
70°-80°	10515.9	18.1
80°-90°	1272.6	2.2
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°	57958.0	100.0
0°-180°	57958.0	100.0

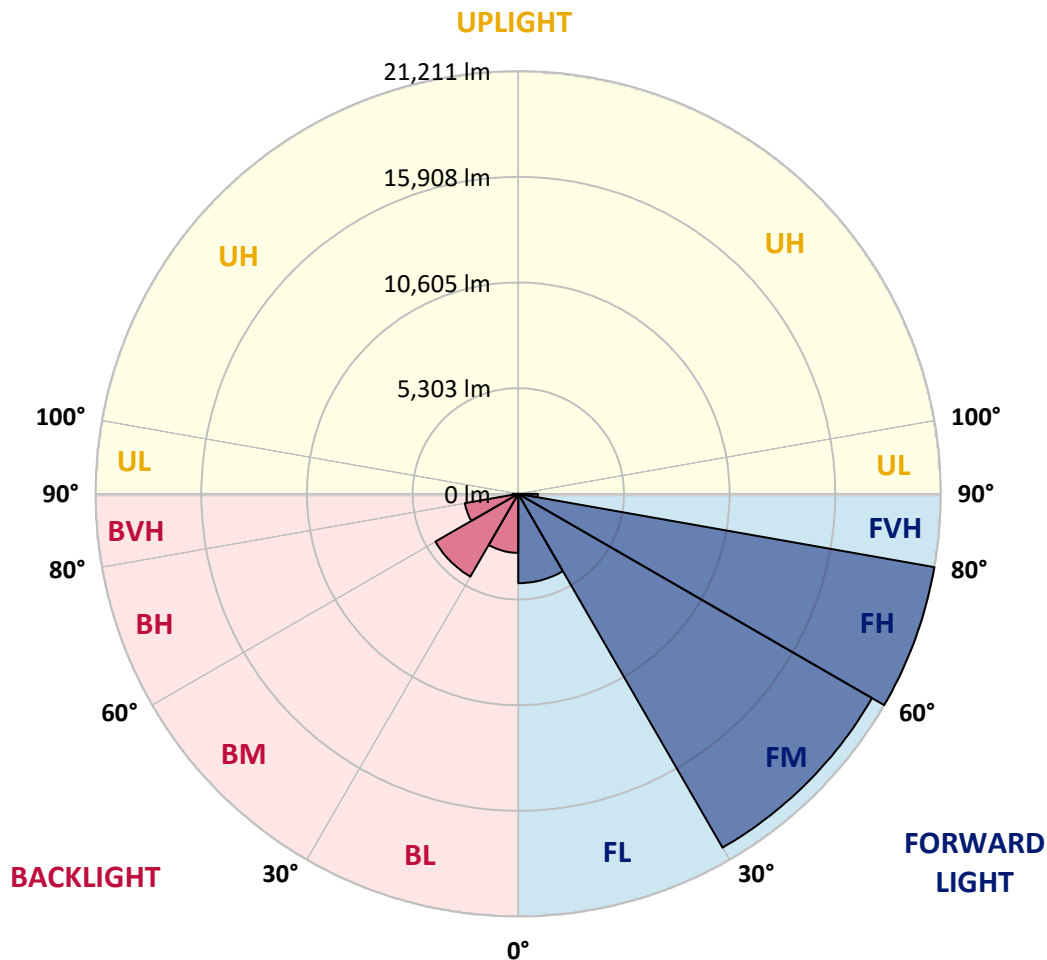


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4484.3	7.7			
FM (30°-60°)	20506.7	35.4			
FH (60°-80°)	21210.7	36.6			G5
FVH (80°-90°)	983.9	1.7			G5
BL (0°-30°)	2964.0	5.1	B4/5000		
BM (30°-60°)	4799.3	8.3	B3/5000		
BH (60°-80°)	2720.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	288.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5
2.5°	9889.8	9866.3	9895.6	9936.7	9981.8	10042.4	10077.7	10093.3	10154.0	10177.5	10228.4
5°	9431.7	9419.9	9468.9	9539.3	9639.2	9780.1	9893.7	9915.2	10075.7	10189.3	10293.0
7.5°	9098.9	9098.9	9155.7	9239.8	9351.4	9541.3	9701.8	9731.2	10003.3	10248.0	10439.8
10°	8834.6	8844.4	8911.0	9010.8	9142.0	9343.6	9557.0	9590.2	9983.7	10385.0	10690.4
12.5°	8658.4	8681.9	8742.6	8832.7	8995.1	9239.8	9510.0	9555.0	10024.8	10580.8	10991.9
15°	8770.0	8809.2	8815.0	8852.2	8942.3	9208.5	9537.4	9584.4	10112.9	10780.5	11334.5
17.5°	9259.4	9273.1	9212.4	9134.1	9091.1	9261.4	9619.6	9668.5	10218.6	10978.2	11663.3
20°	10003.3	9995.5	9864.3	9652.9	9433.6	9461.0	9754.7	9805.6	10361.5	11152.4	11992.2
22.5°	10942.9	10915.5	10713.9	10324.3	9950.4	9793.8	9991.5	10034.6	10576.9	11401.0	12344.6
25°	12082.3	12021.6	11755.3	11232.7	10682.6	10279.3	10347.8	10388.9	10890.1	11679.0	12667.6
27.5°	13284.2	13223.5	12884.9	12252.6	11520.4	10892.0	10839.2	10874.4	11246.4	11884.5	12906.4
30°	14541.0	14476.4	14167.1	13458.4	12409.2	11526.3	11297.3	11311.0	11496.9	11996.1	13102.2
32.5°	15803.6	15743.0	15396.5	14574.3	13374.3	12207.5	11628.1	11610.5	11647.7	12111.6	13323.4
35°	17083.9	17107.4	16702.2	15791.9	14443.1	12965.1	12019.6	11982.4	11900.2	12348.5	13636.6
37.5°	18454.2	18438.6	17913.9	16962.5	15560.9	13787.3	12581.4	12575.6	12291.7	12796.8	14127.9
40°	19370.4	19380.2	19061.1	18160.6	16690.4	14697.6	13301.8	13288.1	12916.2	13468.2	14772.0
42.5°	19728.6	19793.2	19875.4	19303.8	17872.8	15752.7	14161.2	14141.6	13787.3	14431.4	15529.6
45°	19754.1	19883.3	20392.2	20319.8	19070.9	16960.6	15259.4	15204.6	14950.1	15711.6	16434.0
47.5°	19534.8	19667.9	20513.6	20924.7	20141.7	18235.0	16543.6	16500.5	16281.3	17312.9	17412.8
50°	19055.2	19182.4	20263.0	21220.3	21022.6	19460.4	18023.5	17910.0	17792.6	19162.9	18532.5
52.5°	18156.7	18401.4	19928.3	21290.8	21549.2	20548.8	19579.8	19505.4	19570.0	21114.6	19654.2
55°	16028.8	16302.8	19065.0	21232.0	21938.7	21463.0	21136.1	21132.2	21467.0	23162.2	20858.1
57.5°	14836.6	15030.4	17307.1	21132.2	22400.7	22371.4	22676.7	22713.9	23365.8	25391.9	22118.8
60°	14163.2	14366.8	16416.4	20762.2	23117.2	23545.9	24248.7	24323.1	25296.0	27860.4	23636.0
62.5°	13550.5	13773.6	15864.3	20008.5	23960.9	25225.5	26131.9	26198.5	27339.7	30397.5	25102.2
65°	12503.1	12755.7	15055.8	19513.3	24728.3	27416.1	28526.0	28571.1	29686.9	33055.9	26223.9
67.5°	11023.2	11254.2	13530.9	18419.0	25296.0	30076.4	31709.1	31734.5	32014.5	34933.2	26797.5
70°	9294.6	9382.7	11357.9	16159.9	24624.5	32564.5	35197.5	35203.4	34136.5	36135.2	26703.5
72.5°	6530.5	6738.0	8245.4	12233.0	21161.6	32261.1	37008.3	37074.8	35123.1	35528.3	24569.7
75°	4005.2	4224.5	5172.0	7413.4	13425.2	25372.3	34193.3	34655.2	33273.2	31677.7	20071.2
77.5°	2678.0	2760.2	3374.9	4322.4	6082.2	14597.8	26288.5	27157.7	27641.2	23101.5	12835.9
80°	1493.6	1650.2	2237.5	2685.8	2705.4	5800.3	15762.5	15966.1	15378.8	9198.7	3960.2
82.5°	790.9	877.0	1493.6	1577.8	1476.0	1941.9	5874.7	5880.6	4913.6	2466.6	1176.5
85°	612.7	685.2	1023.8	963.1	753.7	861.3	1938.0	2043.7	1671.8	1010.1	383.7
87.5°	305.4	379.8	694.9	610.8	295.6	246.7	693.0	740.0	659.7	395.4	139.0
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°	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5	10222.5
2.5°	10248.0	10265.6	10287.1	10263.7	10255.8	10224.5	10171.6	10159.9	10132.5	10134.5	10150.1
5°	10338.0	10367.4	10355.7	10265.6	10157.9	10007.2	9850.6	9717.5	9629.4	9623.5	9617.6
7.5°	10510.3	10529.9	10437.9	10181.4	9880.0	9531.5	9202.6	8914.9	8740.6	8697.6	8687.8
10°	10780.5	10776.5	10524.0	10007.2	9406.2	8783.7	8255.2	7855.8	7622.9	7554.3	7536.7
12.5°	11081.9	11036.9	10553.4	9690.1	8736.7	7873.4	7203.9	6759.6	6516.8	6438.5	6418.9
15°	11393.2	11281.6	10480.9	9216.3	7914.5	6892.7	6189.9	5778.8	5647.7	5604.6	5596.8
17.5°	11682.9	11467.6	10273.4	8574.3	6976.9	5915.8	5367.7	5203.3	5234.6	5291.4	5293.3
20°	11966.8	11592.9	9940.7	7763.8	5988.3	5111.3	4925.3	5046.7	5195.4	5310.9	5326.6
22.5°	12246.7	11681.0	9511.9	6828.1	5103.4	4659.1	4790.2	5011.4	5181.7	5307.0	5328.6
25°	12481.6	11702.5	8920.7	5829.7	4488.8	4488.8	4725.6	4935.1	5103.4	5226.8	5248.3
27.5°	12567.7	11557.6	8086.8	4905.7	4179.5	4410.5	4635.6	4809.8	4952.7	5083.9	5107.4
30°	12601.0	11289.4	7123.7	4163.8	4052.2	4326.3	4514.2	4663.0	4798.1	4921.4	4942.9
32.5°	12606.9	10966.4	6101.8	3742.9	3964.1	4238.2	4363.5	4494.6	4639.5	4688.4	4696.3
35°	12644.1	10584.7	5025.1	3527.6	3881.9	4156.0	4255.8	4349.8	4114.9	4132.5	4148.1
37.5°	12751.8	10206.9	4124.6	3406.2	3829.0	4112.9	4232.3	3891.7	3707.7	3664.6	3658.7
40°	12953.4	9803.6	3457.1	3308.3	3809.5	4134.4	4081.6	3633.3	3316.2	3079.3	3044.1
42.5°	13233.3	9369.0	3030.4	3243.7	3823.2	4238.2	3872.1	3384.7	2858.1	2705.4	2685.8
45°	13548.5	8912.9	2799.4	3198.7	3870.2	4318.4	3829.0	3053.8	2644.7	2529.2	2519.4
47.5°	13853.9	8355.0	2679.9	3179.1	3934.8	4253.8	3647.0	2952.0	2542.9	2482.2	2488.1
50°	14204.3	7851.9	2607.5	3157.6	3991.5	4212.7	3441.4	2899.2	2503.8	2578.1	2656.5
52.5°	14499.9	7331.2	2542.9	3114.5	4013.1	4140.3	3388.6	2909.0	2503.8	2646.7	2721.1
55°	14850.3	6937.7	2468.5	3024.5	3972.0	3934.8	3351.4	2967.7	2533.1	2443.1	2450.9
57.5°	15302.5	6808.5	2386.3	2883.5	3834.9	3635.2	3333.8	3024.5	2515.5	2458.7	2478.3
60°	15928.9	6945.5	2353.0	2699.5	3621.5	3400.3	3335.7	2995.1	2392.2	2294.3	2296.3
62.5°	16526.0	7098.2	2351.1	2584.0	3359.2	3190.9	3290.7	2899.2	2329.5	2272.8	2294.3
65°	16721.7	6943.6	2257.1	2454.8	3063.6	2940.3	3208.5	2797.4	2282.6	2196.4	2192.5
67.5°	16459.4	6464.0	2067.2	2245.4	2725.0	2648.6	3100.8	2676.0	2208.2	2137.7	2125.9
70°	15680.3	5393.2	1832.3	1969.3	2339.3	2319.7	2930.5	2535.1	2108.3	2047.6	1996.7
72.5°	13583.7	3842.8	1544.5	1638.5	1904.7	1967.4	2695.6	2351.1	1967.4	1836.2	1757.9
75°	11156.3	2844.4	1268.5	1288.1	1446.7	1617.0	2372.6	2135.7	1801.0	1577.8	1517.1
77.5°	6832.0	1740.3	1010.1	1017.9	1037.5	1290.1	1953.7	1894.9	1589.6	1315.5	1272.4
80°	2212.1	949.4	730.2	767.4	708.6	945.5	1511.3	1613.1	1364.4	1100.2	1053.2
82.5°	841.8	554.0	493.3	518.8	491.4	634.3	1102.1	1292.0	1117.8	904.4	736.1
85°	407.2	313.2	291.7	326.9	303.4	325.0	704.7	951.4	847.6	589.2	548.1
87.5°	144.9	139.0	111.6	150.7	129.2	115.5	215.3	479.6	559.9	405.2	362.2
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)