

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: P318064

Luminaire Tested: **GAN-SA0D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68634 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

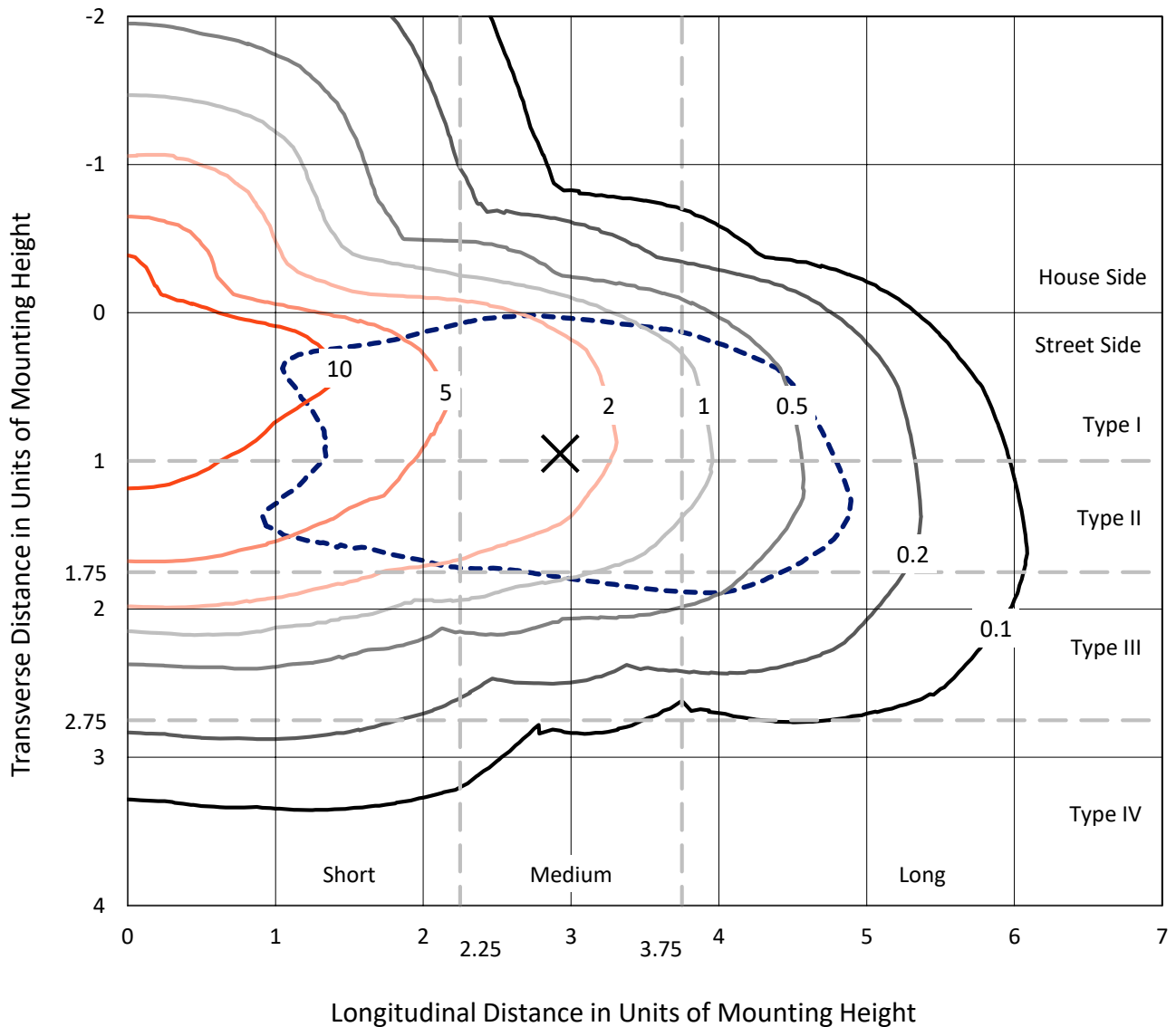
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

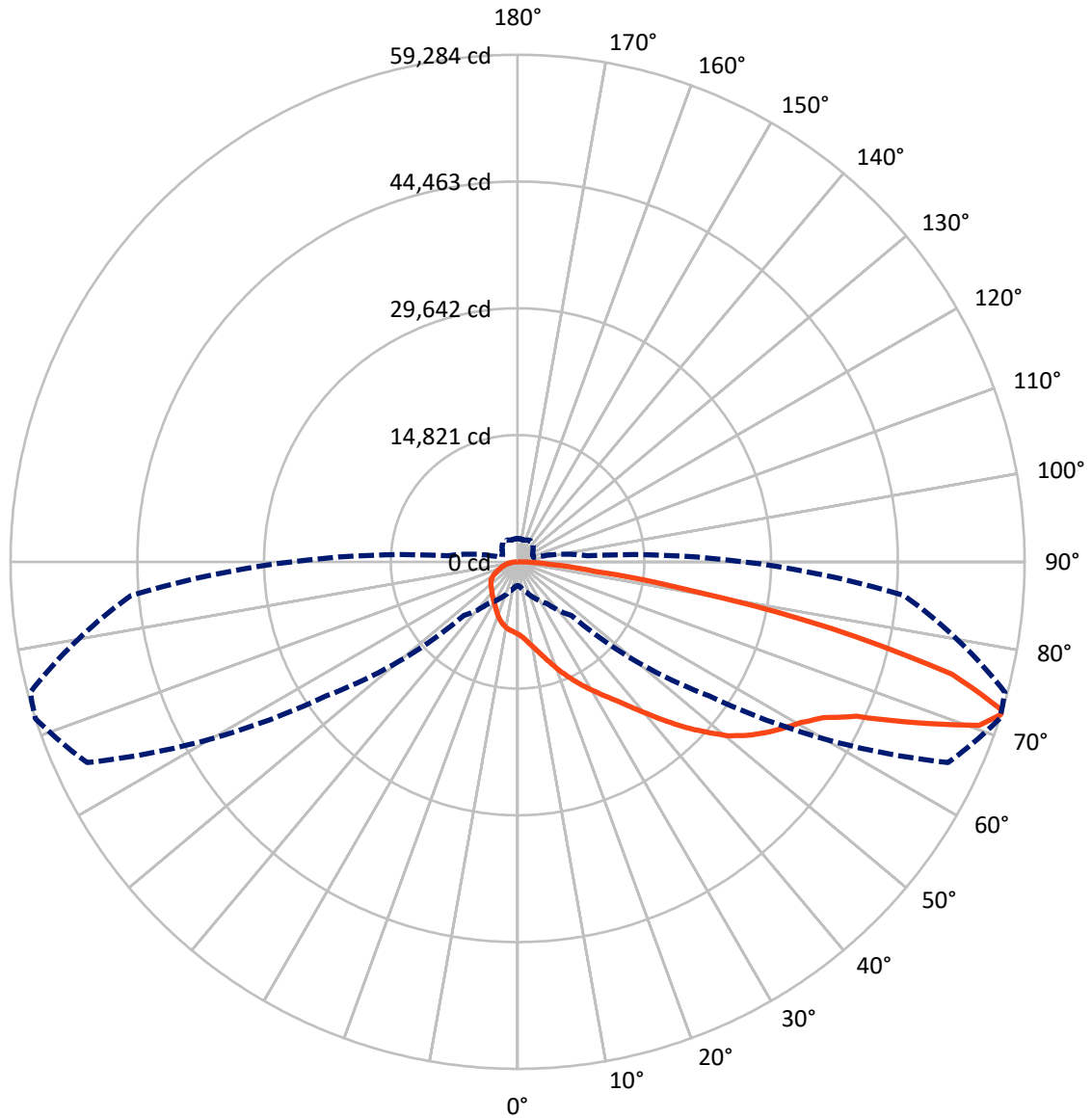
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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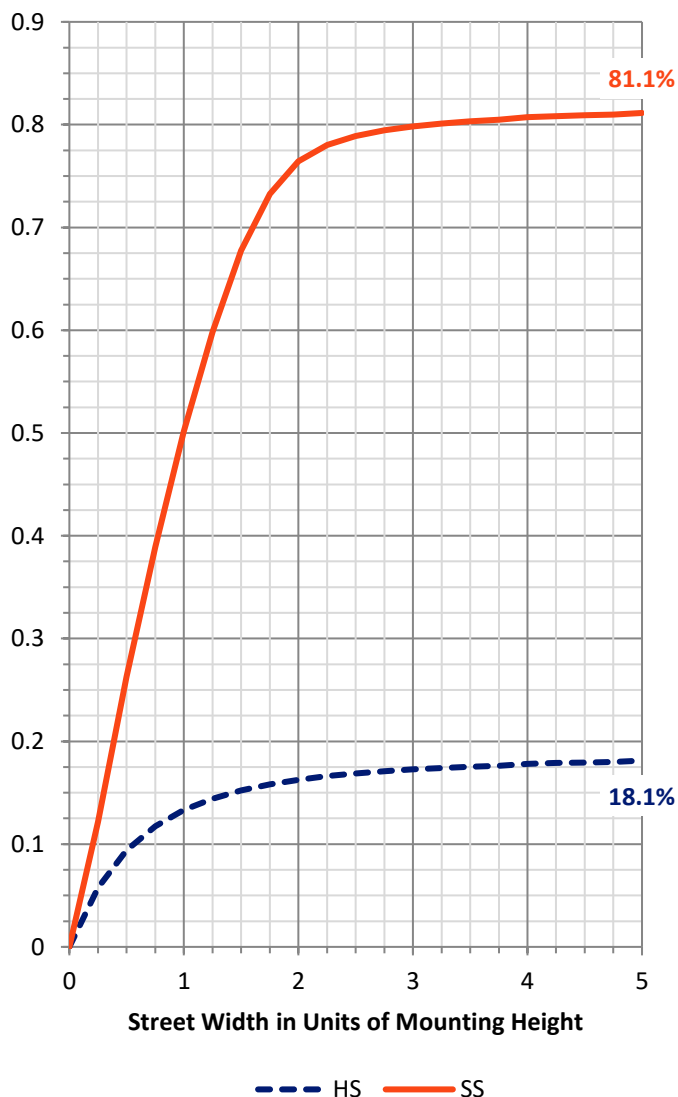
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12732.1	0.0	12732.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	55901.9	0.0	55901.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	68634.0	0.0	68634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.1	1.2
10°-20°	2734.2	4.0
20°-30°	4791.1	7.0
30°-40°	7103.7	10.4
40°-50°	10389.7	15.1
50°-60°	14296.2	20.8
60°-70°	15915.9	23.2
70°-80°	10784.6	15.7
80°-90°	1772.5	2.6
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°	68634.0	100.0
0°-180°	68634.0	100.0

Coefficient of Utilization

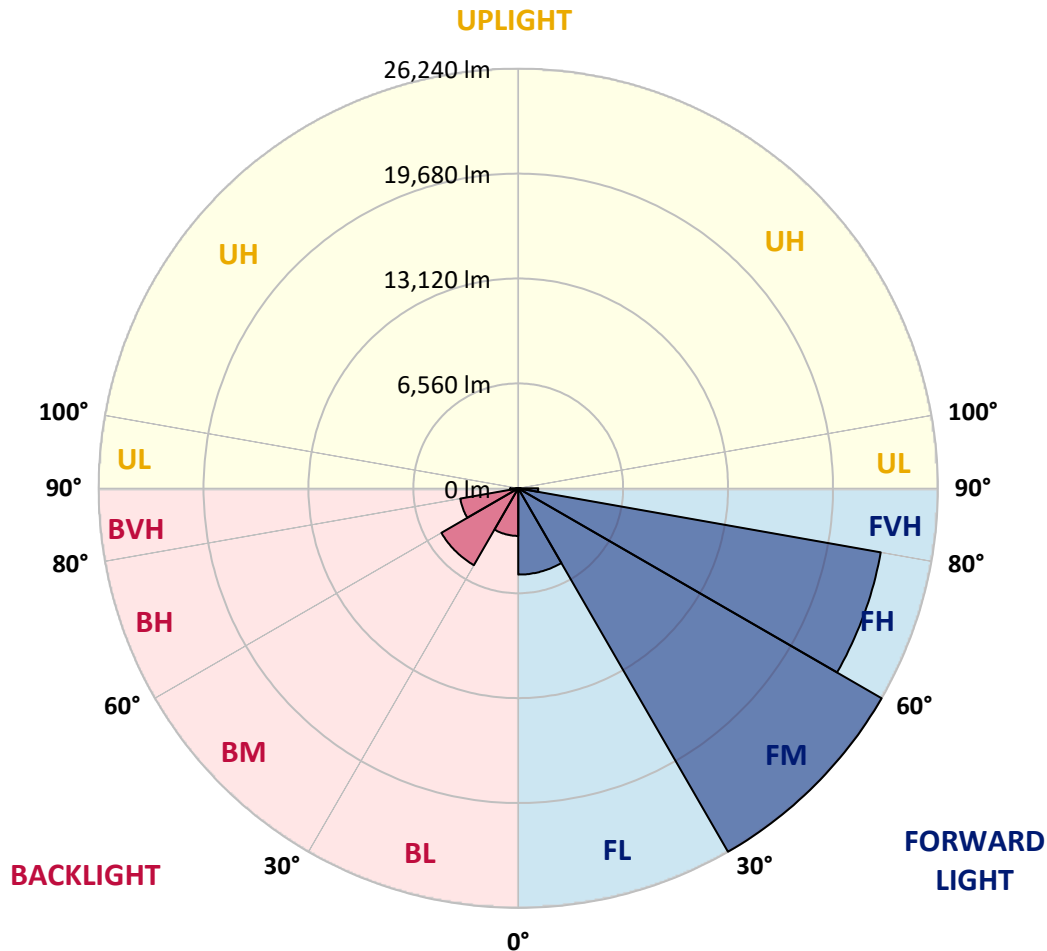


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5395.0	7.9			
FM (30°-60°)	26239.6	38.2			
FH (60°-80°)	23016.9	33.5			G5
FVH (80°-90°)	1250.3	1.8			G5
BL (0°-30°)	2976.3	4.3	B4/5000		
BM (30°-60°)	5550.0	8.1	B4/8500		
BH (60°-80°)	3683.6	5.4	B4/5000		G4/5000
BVH (80°-90°)	522.2	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8
2.5°	9327.6	9313.4	9263.8	9263.8	9169.3	9088.9	8937.7	8836.1	8715.5	8673.0	8531.2
5°	10230.4	10235.1	10173.6	10131.1	9991.7	9821.5	9563.9	9330.0	9096.0	9001.5	8710.8
7.5°	10989.0	10979.5	10963.0	10927.5	10797.5	10622.7	10275.3	9927.9	9582.8	9441.0	8940.0
10°	11475.8	11497.0	11511.2	11527.8	11473.4	11348.2	11019.7	10596.7	10145.3	9951.5	9214.2
12.5°	11721.6	11759.4	11825.5	11939.0	12028.8	12014.6	11775.9	11326.9	10790.4	10547.0	9556.8
15°	11865.7	11915.3	12019.3	12222.6	12475.4	12619.6	12555.8	12149.3	11551.4	11251.3	9975.1
17.5°	11955.5	11995.7	12156.4	12428.2	12803.9	13186.7	13354.5	13014.2	12411.6	12068.9	10454.9
20°	12017.0	12047.7	12248.6	12567.6	13054.4	13664.1	14132.0	14047.0	13359.3	12915.0	10955.9
22.5°	12154.0	12180.0	12371.4	12692.8	13231.6	14018.6	14881.2	15008.8	14358.9	13855.5	11492.3
25°	12536.9	12536.9	12697.6	12922.1	13427.8	14325.8	15514.5	16079.3	15379.8	14793.7	11988.6
27.5°	13267.1	13260.0	13319.1	13397.1	13779.9	14637.8	16079.3	17024.6	16438.5	15798.1	12470.7
30°	14132.0	14179.3	14186.4	14148.6	14328.2	15027.7	16601.6	18021.9	17504.3	16814.3	12964.6
32.5°	15245.1	15275.8	15240.4	15115.1	15089.1	15580.7	17114.4	19066.4	18657.6	17875.4	13416.0
35°	16658.3	16599.2	16488.2	16232.9	15989.5	16320.4	17700.5	20111.0	19952.6	19158.6	14037.5
37.5°	18173.1	18175.5	18038.4	17459.4	17123.9	17265.7	18508.7	21294.9	21519.4	20685.2	14833.9
40°	19387.8	19451.6	19536.7	18775.8	18340.9	18537.1	19536.7	22668.0	23372.2	22495.5	15871.4
42.5°	20236.2	20309.5	20550.5	20073.2	19621.8	19985.7	20746.7	24133.2	25451.8	24584.5	17086.1
45°	21134.2	21174.4	21344.6	21139.0	20850.7	21670.7	22110.3	25650.4	27652.0	26810.7	18444.9
47.5°	22079.5	22122.1	22296.9	22159.9	22008.6	23244.6	23532.9	27080.1	29760.0	29256.6	19895.9
50°	23247.0	23275.3	23440.7	23192.6	23239.9	24430.9	24804.3	28391.7	31969.6	31454.4	21351.7
52.5°	24839.8	24846.9	25076.1	24851.6	24629.4	25300.6	25898.5	29627.6	33701.8	33458.4	22807.4
55°	26087.5	26163.2	26914.7	26867.4	26739.8	26089.9	26813.1	30804.5	35247.4	35363.2	24352.9
57.5°	25291.1	25586.5	27108.5	28181.4	29225.9	28053.7	28049.0	32130.3	36684.2	37232.5	26052.1
60°	22150.4	22552.2	24794.9	27174.6	30443.0	31471.0	30615.5	33749.1	38135.2	39085.2	28181.4
62.5°	15819.4	16481.1	19520.2	23320.2	28774.5	33734.9	35838.2	36317.9	40108.5	41231.0	30948.7
65°	7997.1	8498.1	11045.7	15623.2	22989.4	32255.5	41514.6	41942.4	43537.5	44534.8	35209.6
67.5°	4858.8	5047.8	6290.9	8689.5	14094.2	25125.7	43367.4	51317.2	50173.4	50702.8	41285.4
70°	3580.3	3719.7	4494.8	5771.0	8105.8	14744.1	37681.5	58007.5	57256.0	57196.9	45775.5
72°	2788.6	2890.2	3575.5	4662.6	5926.9	8845.5	27311.7	55538.0	59283.6	58985.9	45364.3
72.5°	2644.4	2734.2	3358.1	4388.5	5600.8	8018.4	24556.2	53871.9	59137.1	59002.4	44832.6
75°	2082.0	2145.8	2486.1	3393.6	4383.8	4549.2	13456.2	41748.6	52461.0	54642.3	40323.6
77.5°	1722.8	1732.2	1911.8	2469.6	3417.2	3216.3	6609.9	28965.9	37565.7	39964.4	28564.2
80°	1403.8	1415.6	1500.6	1732.2	2585.4	2379.8	3138.4	16655.9	21032.6	21058.6	13583.8
82.5°	1117.8	1120.2	1214.7	1266.7	1857.5	1701.5	1798.4	7819.9	9190.5	8840.8	4882.4
85°	787.0	770.4	1186.3	1039.8	1214.7	1091.8	992.6	3095.8	3800.1	3634.6	1529.0
87.5°	262.3	271.8	527.0	673.5	709.0	619.2	441.9	1186.3	1434.5	1422.7	484.5
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°	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8	8443.8
2.5°	8486.3	8410.7	8299.6	8176.7	8079.8	7980.6	7907.3	7869.5	7827.0	7791.5	7834.1
5°	8576.1	8434.3	8198.0	7966.4	7796.3	7645.0	7536.3	7479.6	7427.6	7392.1	7396.9
7.5°	8722.6	8493.4	8096.4	7758.4	7522.1	7359.1	7248.0	7210.2	7177.1	7167.6	7179.5
10°	8878.6	8540.7	7961.7	7512.7	7243.3	7108.6	7058.9	7084.9	7108.6	7129.8	7153.5
12.5°	9055.8	8583.2	7765.5	7224.4	6995.1	6943.1	6992.8	7106.2	7188.9	7238.5	7269.3
15°	9287.4	8621.0	7538.7	6936.0	6782.4	6841.5	7009.3	7205.4	7349.6	7441.8	7455.9
17.5°	9500.1	8618.7	7248.0	6645.4	6609.9	6782.4	7035.3	7311.8	7505.6	7635.6	7661.5
20°	9719.9	8554.8	6910.0	6361.8	6435.0	6718.6	7047.1	7380.3	7614.3	7765.5	7801.0
22.5°	9925.5	8443.8	6539.0	6104.2	6288.5	6633.5	7002.2	7340.2	7574.1	7697.0	7734.8
25°	10064.9	8250.0	6163.3	5886.8	6158.5	6529.6	6855.7	7127.5	7302.3	7363.8	7373.2
27.5°	10135.8	7997.1	5808.8	5697.7	6023.8	6359.4	6583.9	6718.6	6768.3	6763.5	6754.1
30°	10145.3	7663.9	5503.9	5544.1	5867.9	6108.9	6215.3	6189.3	6125.5	6016.7	6026.2
32.5°	10114.6	7288.2	5248.7	5397.6	5669.4	5804.1	5808.8	5683.5	5513.4	5340.9	5293.6
35°	10124.0	6919.5	5024.2	5232.2	5428.3	5487.4	5433.0	5248.7	5017.1	4795.0	4747.7
37.5°	10228.0	6598.1	4830.4	5040.7	5161.3	5175.4	5097.5	4903.7	4733.5	4516.1	4497.2
40°	10476.1	6368.9	4646.1	4825.7	4894.2	4901.3	4790.2	4653.2	4667.4	4551.6	4549.2
42.5°	10922.8	6269.6	4483.0	4601.2	4643.7	4657.9	4572.8	4485.4	4608.3	4532.6	4506.7
45°	11499.4	6293.2	4346.0	4381.4	4459.4	4525.6	4473.6	4367.2	4414.5	4086.0	3977.3
47.5°	12165.8	6444.5	4237.2	4192.3	4327.0	4452.3	4372.0	4211.3	4043.5	3717.3	3655.9
50°	12945.7	6678.4	4138.0	4005.7	4182.9	4353.0	4272.7	4043.5	3790.6	3632.3	3611.0
52.5°	13758.6	6964.4	4038.7	3800.1	4000.9	4277.4	4237.2	4005.7	3693.7	3537.7	3509.4
55°	14680.3	7252.7	3913.5	3561.4	3804.8	4242.0	4220.7	3868.6	3620.4	3533.0	3511.7
57.5°	15826.5	7581.2	3748.1	3313.2	3620.4	4114.4	4048.2	3785.9	3544.8	3478.7	3471.6
60°	17320.0	8065.7	3509.4	3048.5	3395.9	3918.2	3904.0	3665.3	3424.3	3377.0	3367.6
62.5°	19560.3	8866.8	3180.9	2783.9	3145.4	3585.0	3715.0	3502.3	3296.7	3294.3	3299.1
65°	23034.3	10072.0	2824.0	2552.3	2892.6	3303.8	3495.2	3334.5	3166.7	3214.0	3221.1
67.5°	27061.2	11071.7	2474.3	2325.4	2635.0	3036.7	3296.7	3166.7	2994.2	3117.1	3119.4
70°	28401.1	10178.4	2167.1	2100.9	2367.9	2779.1	3081.6	2982.4	2807.5	2930.4	2918.6
72°	26430.2	8216.9	1968.6	1930.7	2167.1	2566.5	2890.2	2809.9	2637.3	2720.1	2689.3
72.5°	25808.7	7834.1	1918.9	1888.2	2112.7	2512.1	2840.6	2767.3	2594.8	2665.7	2637.3
75°	23022.5	6803.7	1649.5	1656.6	1843.3	2247.4	2561.7	2538.1	2360.9	2367.9	2358.5
77.5°	16698.5	4988.8	1389.6	1436.8	1569.2	1975.6	2280.5	2266.3	2072.5	2037.1	2030.0
80°	7749.0	2545.2	1132.0	1153.2	1290.3	1651.9	1944.9	1926.0	1770.0	1725.1	1699.2
82.5°	2653.9	1210.0	850.8	864.9	999.6	1330.5	1687.3	1675.5	1545.5	1458.1	1403.8
85°	947.6	602.6	595.5	581.4	713.7	1046.9	1469.9	1406.1	1214.7	1035.1	1030.4
87.5°	307.2	257.6	307.2	304.9	415.9	709.0	1068.2	909.8	881.5	732.6	718.4
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)