

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: P318754

Luminaire Tested: **GAN-SA0A-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46404 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

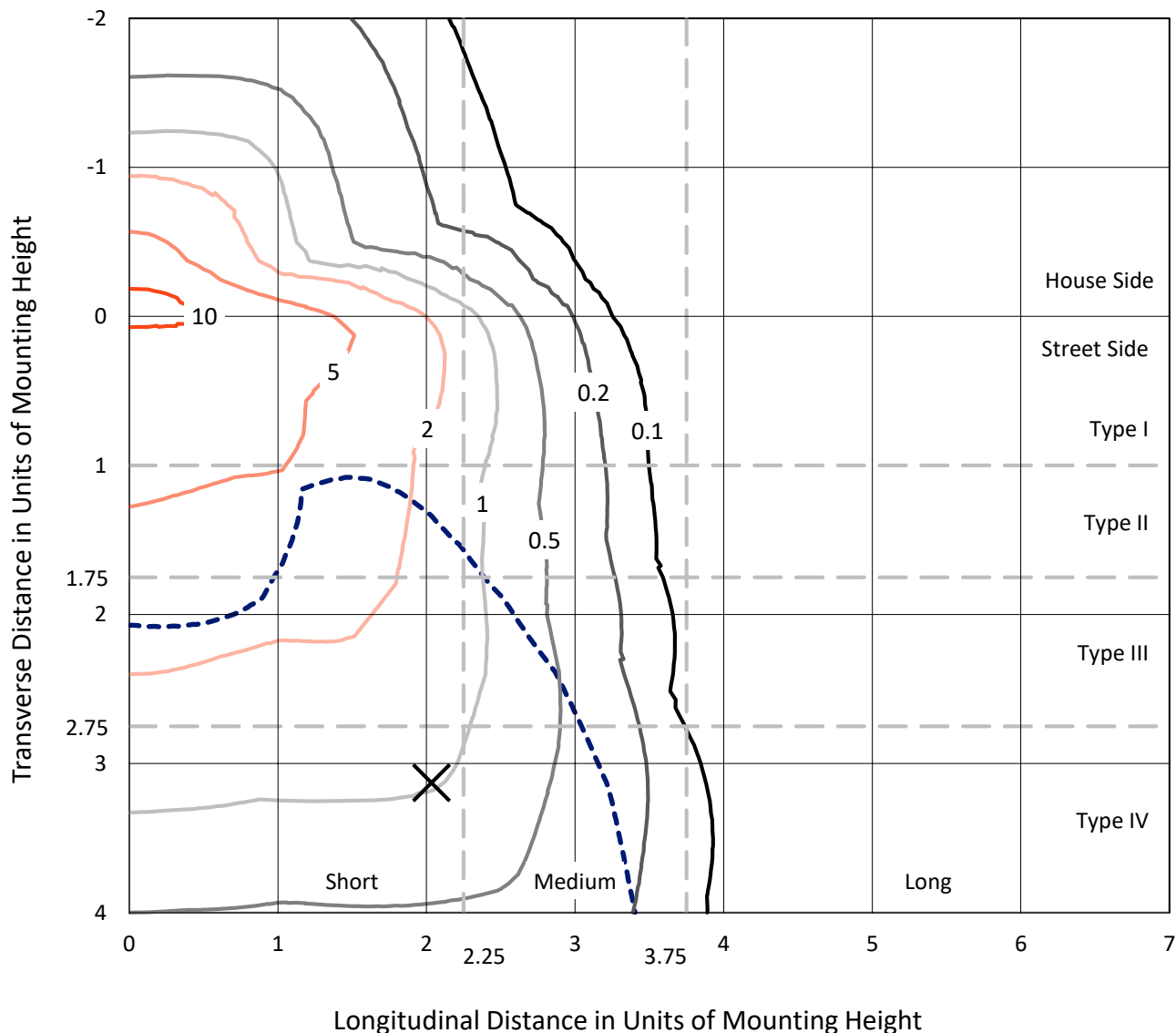
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

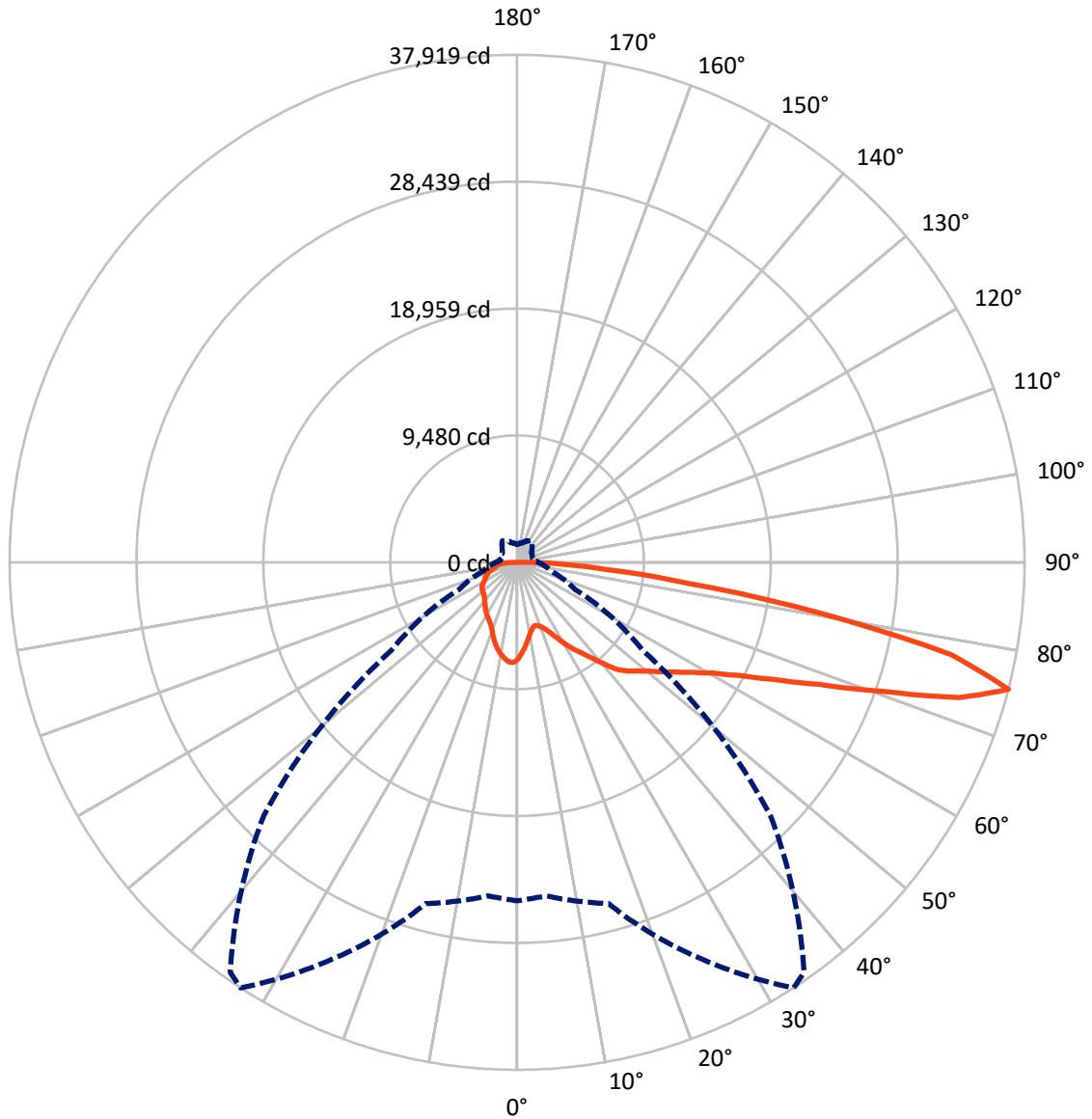
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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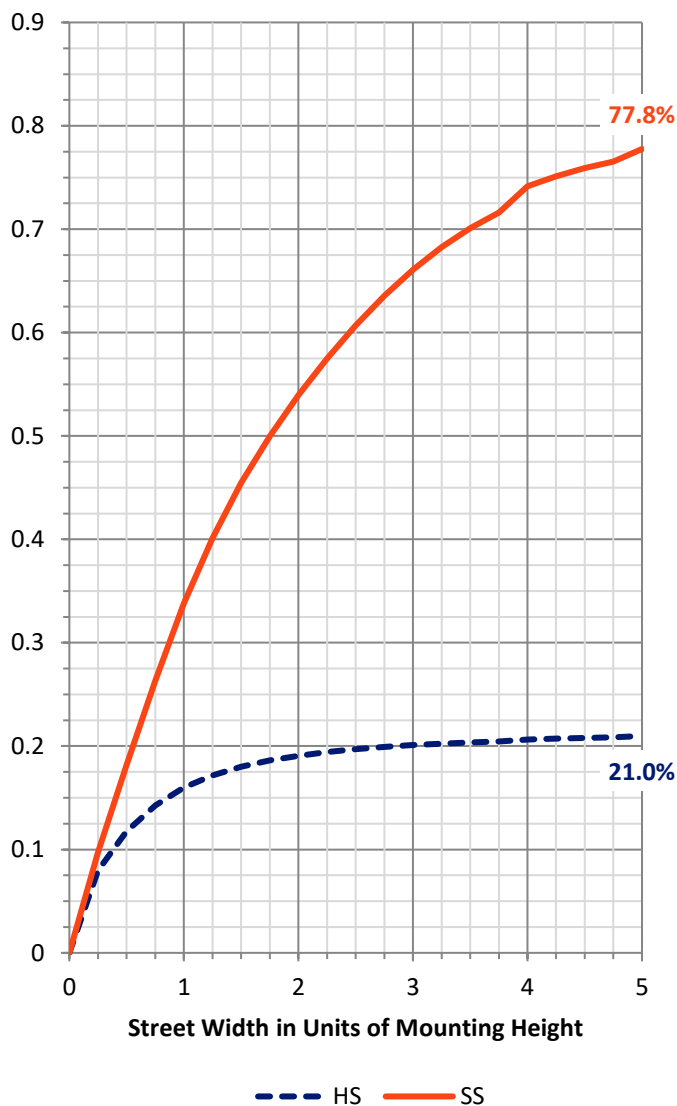
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9964.1	0.0	9964.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36439.8	0.0	36439.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	46404.0	0.0	46404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.0	1.4
10°-20°	1776.6	3.8
20°-30°	2901.5	6.3
30°-40°	4321.0	9.3
40°-50°	6197.5	13.4
50°-60°	8508.2	18.3
60°-70°	10651.8	23.0
70°-80°	9636.2	20.8
80°-90°	1755.3	3.8
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°	46404.0	100.0
0°-180°	46404.0	100.0

Coefficient of Utilization



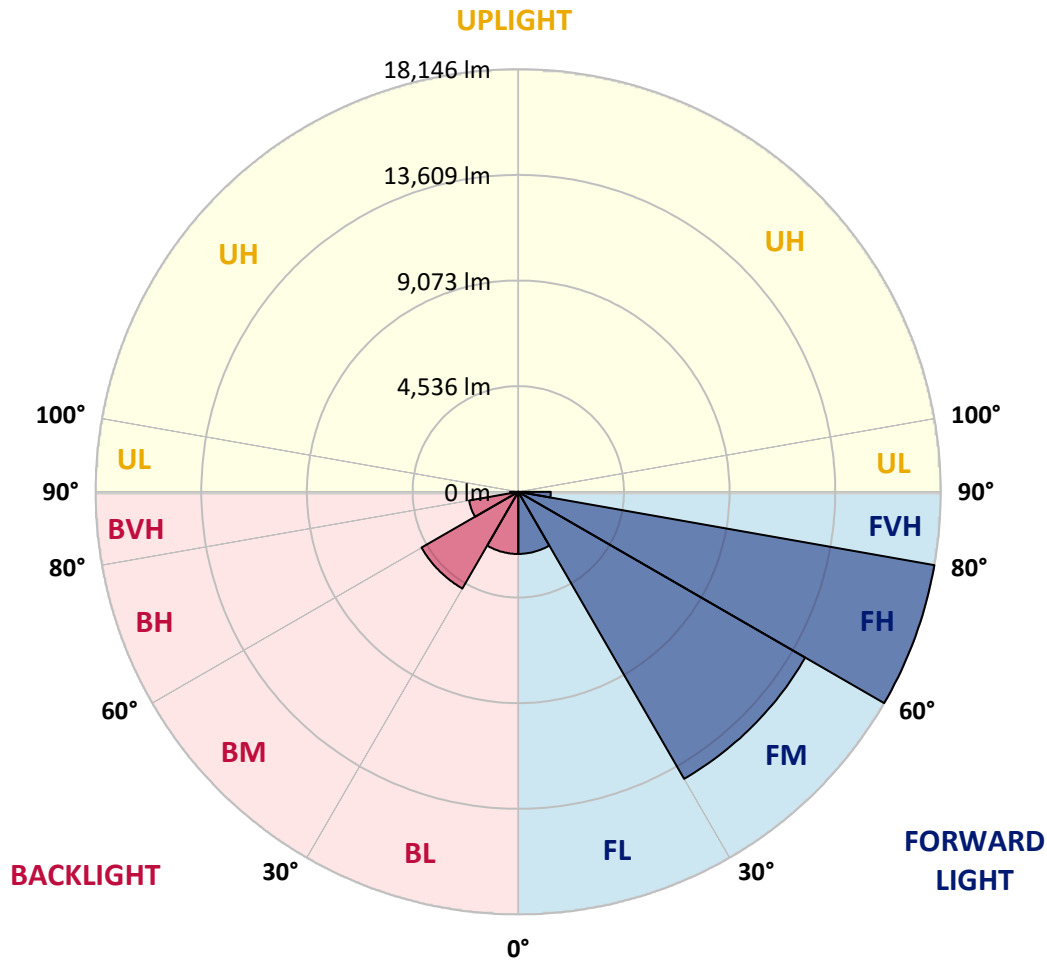
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2665.2	5.7			
FM (30°-60°)	14231.1	30.7			
FH (60°-80°)	18145.6	39.1			G5
FVH (80°-90°)	1397.9	3.0			G5
BL (0°-30°)	2668.9	5.8	B4/5000		
BM (30°-60°)	4795.5	10.3	B3/5000		
BH (60°-80°)	2142.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	357.4	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2
2.5°	6735.5	6709.8	6757.9	6764.3	6806.0	6822.0	6879.7	6969.5	7043.2	7128.2	7205.1
5°	6124.8	6107.1	6174.4	6222.5	6313.9	6352.4	6488.6	6679.4	6849.3	7041.6	7216.3
7.5°	5544.5	5534.9	5610.2	5719.2	5825.0	5877.9	6113.5	6390.8	6674.6	6985.5	7253.2
10°	5055.6	5052.4	5124.5	5231.9	5387.4	5446.7	5751.3	6116.7	6514.3	6942.2	7315.7
12.5°	4781.5	4792.7	4826.4	4916.2	5060.4	5119.7	5457.9	5887.5	6379.6	6927.8	7407.1
15°	4848.8	4866.5	4808.8	4805.5	4908.1	4954.6	5272.0	5724.0	6283.4	6951.9	7540.1
17.5°	5135.8	5139.0	4986.7	4890.5	4953.0	4977.1	5214.3	5631.1	6227.3	7006.4	7706.8
20°	5539.7	5531.7	5262.4	5102.1	5135.8	5142.2	5296.0	5632.7	6222.5	7100.9	7923.2
22.5°	6075.1	6015.8	5653.5	5435.5	5427.5	5417.9	5506.0	5751.3	6293.1	7254.8	8181.3
25°	6773.9	6717.8	6219.3	5921.2	5857.1	5833.0	5845.8	6004.5	6432.5	7419.9	8469.8
27.5°	7551.3	7453.6	6972.7	6551.1	6418.1	6384.4	6307.5	6362.0	6584.8	7578.6	8812.8
30°	8202.1	8149.2	7729.3	7229.2	7072.1	7024.0	6822.0	6762.7	6804.4	7795.0	9245.6
32.5°	8566.0	8530.7	8275.9	7871.9	7726.1	7658.7	7373.4	7254.8	7157.0	8136.4	9832.3
35°	9006.8	8984.4	8830.5	8537.1	8320.7	8250.2	8029.0	7905.6	7653.9	8606.1	10590.5
37.5°	9567.8	9543.8	9547.0	9309.7	9051.7	8986.0	8840.1	8710.3	8298.3	9223.2	11414.4
40°	10202.6	10156.1	10138.5	10127.2	9963.7	9926.9	9849.9	9673.6	9106.2	9960.5	12227.1
42.5°	11157.9	10992.8	10640.2	10773.2	10935.1	10915.9	10978.4	10725.1	10003.8	10832.5	13020.5
45°	12079.6	11808.7	11199.6	11228.4	11582.7	11690.1	12158.1	11978.6	10976.8	11787.9	13841.2
47.5°	12499.6	12294.4	11776.6	11778.2	12129.3	12352.1	13378.0	13249.7	11999.4	12873.0	14843.0
50°	12969.2	12764.0	12299.2	12473.9	12780.1	13017.3	14556.1	14490.4	12972.4	14060.8	16043.6
52.5°	13482.1	13134.3	12839.4	13151.9	13581.5	13857.2	15735.8	15556.3	13865.2	15256.6	17423.7
55°	13488.6	13394.0	13618.4	13847.6	14490.4	14828.6	16971.7	16497.2	14593.0	16431.5	18547.4
57.5°	14256.4	14102.5	14578.5	14684.3	15524.3	15905.8	18201.1	17316.3	15333.5	17332.4	19153.3
60°	15272.6	15141.2	15530.7	15809.6	16803.4	17313.1	19513.9	18157.9	15915.4	18012.0	19124.4
62.5°	17027.8	16878.7	16873.9	17265.0	18603.5	19196.5	20987.0	18983.4	16146.2	18146.6	18308.5
65°	19597.3	19360.0	18912.8	19098.8	21089.6	21681.1	22633.2	19581.3	15841.6	17425.3	16207.1
67.5°	22097.8	22089.8	21540.0	21921.5	24372.4	24846.8	24508.6	19640.6	14891.1	14913.6	12478.7
70°	24590.4	24622.4	24529.5	25856.7	28807.6	29301.3	26505.9	18843.9	12754.4	10770.0	7476.0
72.5°	26565.2	26557.2	27025.2	30447.4	34563.7	34453.1	28188.9	16429.9	9157.5	5813.8	3572.9
75°	25286.0	25007.1	26401.7	32720.4	37918.6	37378.5	26757.5	11460.9	4752.7	2646.4	1923.5
77.5°	16492.4	16756.9	18803.8	27030.0	33167.6	32510.4	19630.9	5347.3	2239.3	1736.0	1394.5
80°	5972.5	6251.4	8804.8	15311.1	22851.2	22743.8	9667.2	2197.6	1514.8	1311.2	1016.3
82.5°	2054.9	2157.5	3473.5	6799.6	12901.9	13382.8	3637.0	1248.7	1101.2	929.7	695.7
85°	806.3	923.3	1588.5	3271.6	6507.8	6555.9	1473.1	747.0	766.2	609.1	381.5
87.5°	306.2	371.9	759.8	1519.6	2971.8	2729.8	527.4	355.8	436.0	362.3	181.1
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°	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2	7253.2
2.5°	7264.4	7298.1	7368.6	7416.7	7468.0	7482.4	7488.8	7501.7	7514.5	7509.7	7511.3
5°	7309.3	7375.0	7488.8	7536.9	7559.4	7533.7	7484.0	7444.0	7415.1	7399.1	7394.3
7.5°	7383.0	7476.0	7597.8	7589.8	7538.5	7424.7	7296.5	7200.3	7120.2	7091.3	7075.3
10°	7480.8	7589.8	7674.8	7583.4	7434.3	7237.2	7044.8	6895.8	6775.5	6729.1	6721.0
12.5°	7605.8	7716.4	7732.5	7538.5	7291.7	7022.4	6761.1	6564.0	6384.4	6326.7	6313.9
15°	7767.7	7871.9	7772.6	7460.0	7115.4	6753.1	6414.9	6147.2	5958.0	5887.5	5861.9
17.5°	7937.7	8037.0	7780.6	7330.1	6884.5	6434.1	6009.3	5735.2	5518.8	5437.1	5427.5
20°	8141.2	8186.1	7746.9	7144.2	6567.2	6020.6	5573.3	5315.3	5199.9	5142.2	5135.8
22.5°	8392.9	8344.8	7670.0	6892.5	6164.8	5542.9	5179.0	5058.8	5030.0	5017.1	5021.9
25°	8659.0	8511.5	7556.2	6564.0	5656.7	5065.2	4890.5	4924.2	4962.6	4957.8	4957.8
27.5°	8952.3	8681.4	7381.4	6128.0	5094.1	4674.1	4694.9	4818.4	4876.1	4874.5	4872.9
30°	9329.0	8873.8	7158.6	5603.8	4568.3	4398.4	4525.0	4675.7	4754.3	4751.0	4752.7
32.5°	9792.2	9085.3	6855.7	5018.7	4188.4	4194.8	4340.7	4489.8	4581.1	4573.1	4574.7
35°	10334.0	9322.6	6445.3	4441.7	3936.8	4032.9	4148.4	4252.5	4339.1	4327.9	4316.7
37.5°	10923.9	9555.0	5900.3	3925.5	3731.6	3882.3	3978.4	3996.1	4036.1	4007.3	3986.5
40°	11484.9	9732.9	5198.3	3502.4	3524.8	3754.0	3816.5	3746.0	3673.9	3664.3	3635.4
42.5°	11973.8	9792.2	4488.2	3164.2	3306.8	3619.4	3657.9	3510.4	3380.6	3319.6	3294.0
45°	12489.9	9813.1	3826.2	2880.4	3096.8	3499.2	3540.8	3343.7	3161.0	3029.5	2986.2
47.5°	13164.8	9963.7	3311.6	2670.5	2936.5	3419.0	3478.3	3210.6	2973.4	2785.9	2745.8
50°	14048.0	10261.9	2893.3	2510.2	2832.4	3366.1	3433.5	3080.8	2819.5	2593.5	2553.4
52.5°	15029.0	10536.0	2555.1	2380.3	2731.4	3273.2	3375.7	2987.8	2675.3	2415.6	2372.3
55°	15715.0	10326.0	2282.6	2245.7	2599.9	3140.1	3295.6	2909.3	2468.5	2242.5	2204.0
57.5°	15846.5	9607.9	2075.8	2106.2	2441.2	2973.4	3172.2	2734.6	2356.3	2167.1	2127.1
60°	15487.4	8607.7	1921.9	1978.0	2271.3	2763.4	2941.4	2611.2	2248.9	2087.0	2053.3
62.5°	14585.0	7583.4	1808.1	1862.6	2112.6	2550.2	2797.1	2481.3	2139.9	1995.6	1962.0
65°	12762.4	6366.8	1699.1	1760.0	1965.2	2365.9	2667.3	2361.1	2032.5	1921.9	1889.8
67.5°	9633.5	4768.7	1596.5	1651.0	1833.7	2205.6	2526.2	2242.5	1928.3	1857.8	1819.3
70°	5672.7	2986.2	1479.5	1537.2	1695.9	2038.9	2375.5	2112.6	1798.5	1766.4	1716.7
72.5°	2640.0	1796.9	1346.5	1402.6	1522.8	1816.1	2181.6	1942.7	1644.6	1574.1	1506.7
75°	1575.7	1314.4	1189.4	1239.1	1324.0	1578.9	1937.9	1769.6	1498.7	1405.8	1335.2
77.5°	1178.1	1005.0	1016.3	1069.1	1138.1	1381.7	1716.7	1633.4	1386.5	1314.4	1266.3
80°	847.9	763.0	828.7	886.4	958.5	1256.7	1644.6	1509.9	1253.5	1157.3	1112.4
82.5°	565.8	548.2	623.5	682.8	753.4	1099.6	1545.2	1322.4	1070.7	948.9	849.5
85°	312.6	330.2	420.0	445.6	506.5	774.2	1266.3	1062.7	806.3	649.2	620.3
87.5°	129.8	152.3	226.0	218.0	269.3	461.6	833.5	641.2	512.9	383.1	298.1
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)