

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: P318114

Luminaire Tested: **GAN-SA0A-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318114
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-SA0A-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45264 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

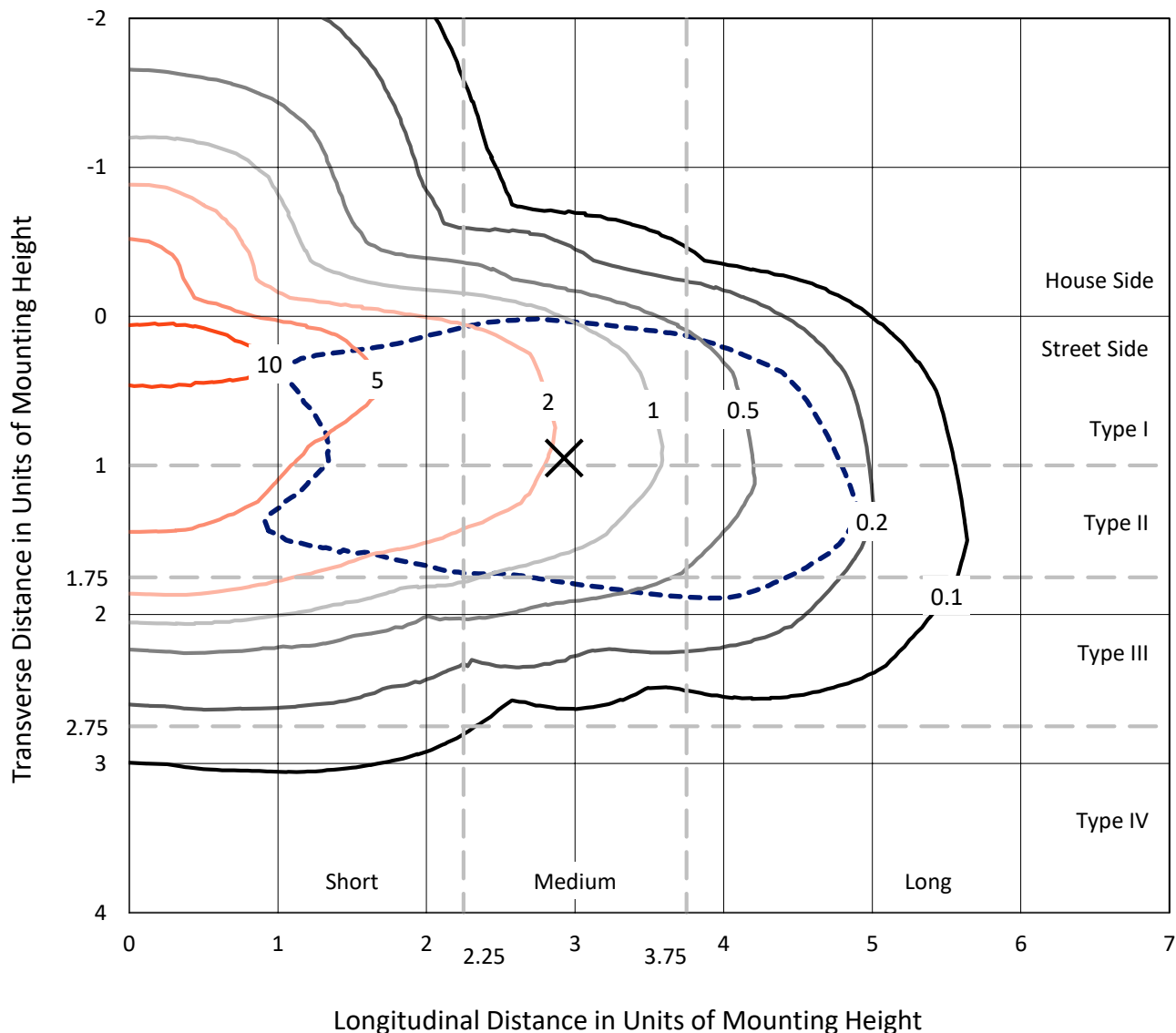
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

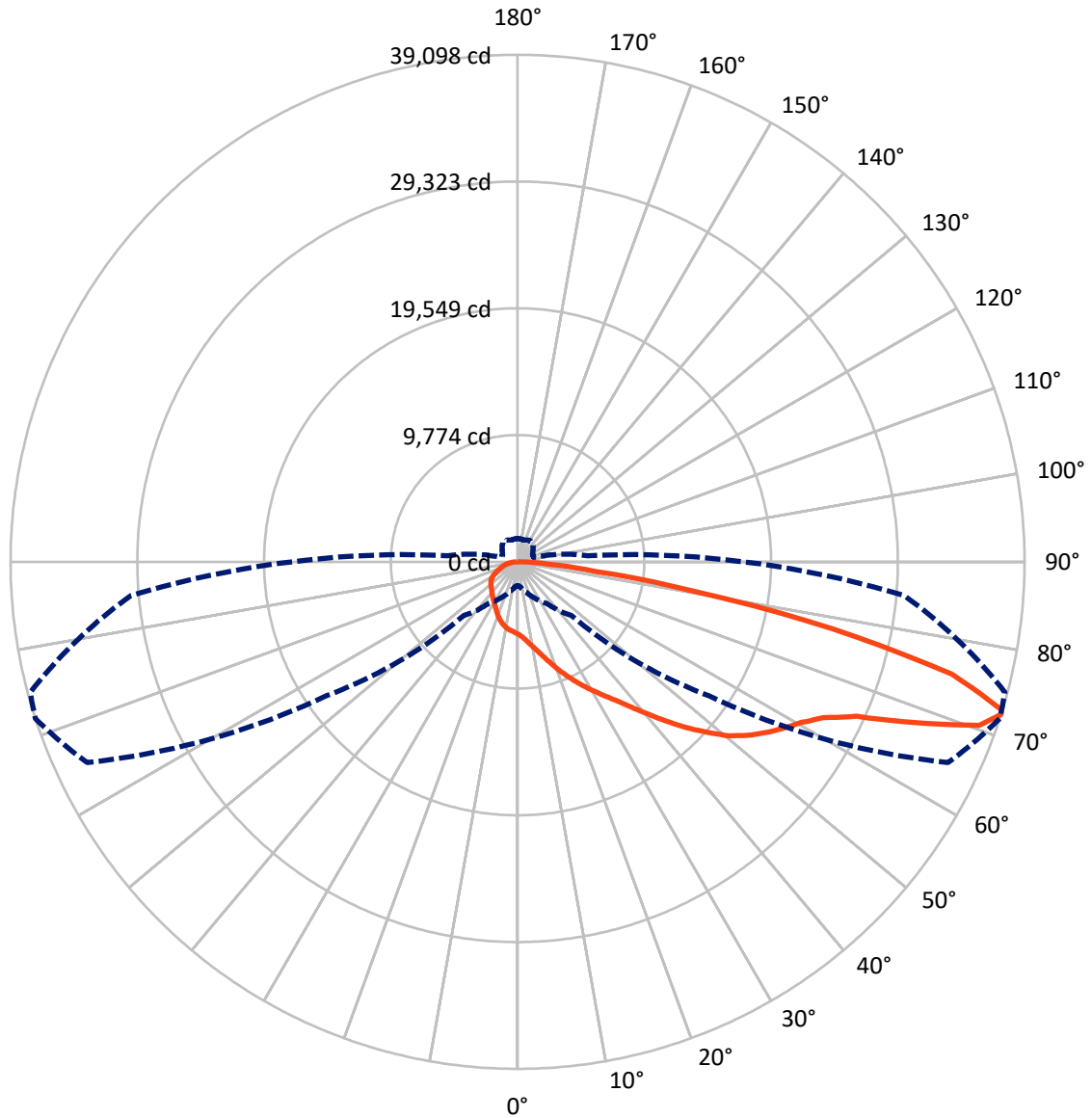
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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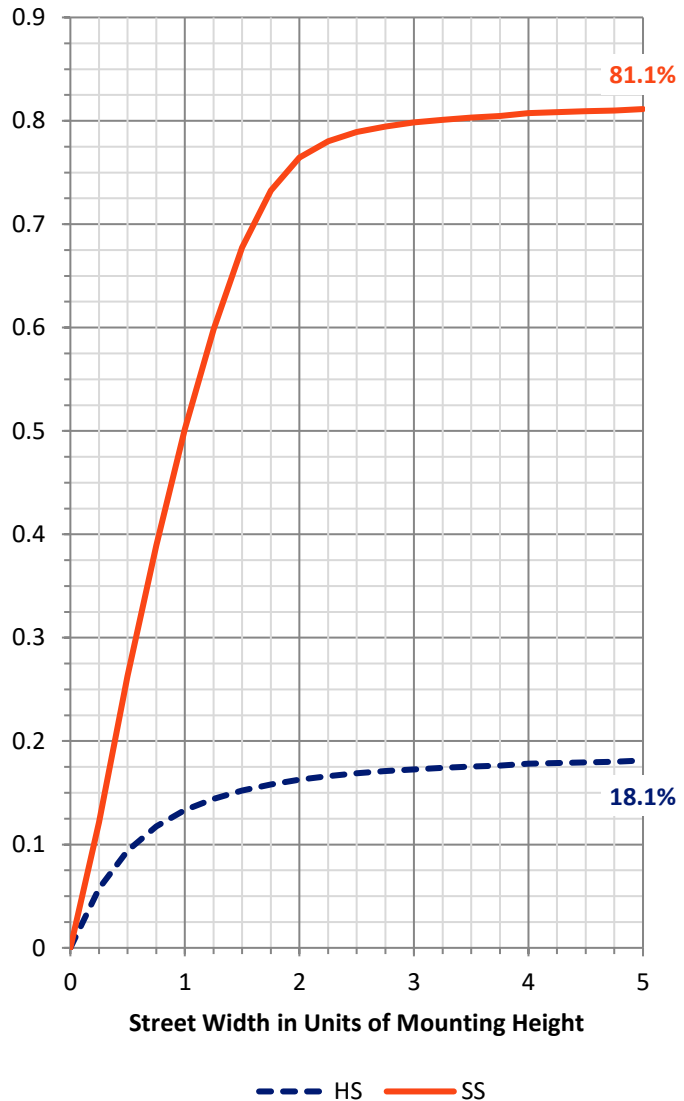
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8396.8	0.0	8396.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36867.2	0.0	36867.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	45264.0	0.0	45264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.0	1.2
10°-20°	1803.2	4.0
20°-30°	3159.7	7.0
30°-40°	4684.9	10.4
40°-50°	6852.0	15.1
50°-60°	9428.3	20.8
60°-70°	10496.5	23.2
70°-80°	7112.4	15.7
80°-90°	1169.0	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°	45264.0	100.0
0°-180°	45264.0	100.0

Coefficient of Utilization

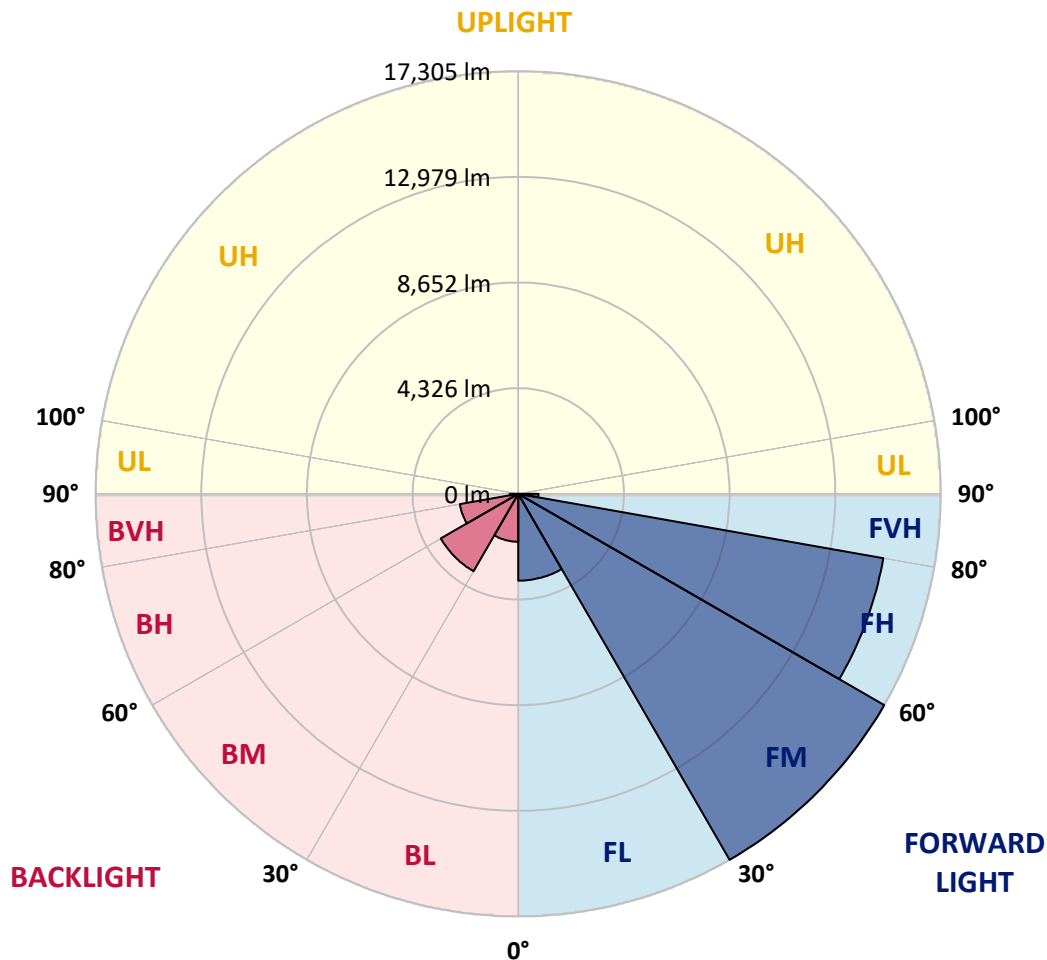


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3558.0	7.9			
FM (30°-60°)	17305.0	38.2			
FH (60°-80°)	15179.6	33.5			G5
FVH (80°-90°)	824.6	1.8			G5
BL (0°-30°)	1962.9	4.3	B3/2500		
BM (30°-60°)	3660.2	8.1	B3/5000		
BH (60°-80°)	2429.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	344.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7
2.5°	6151.5	6142.2	6109.5	6109.5	6047.1	5994.1	5894.4	5827.4	5747.9	5719.8	5626.3
5°	6746.9	6750.0	6709.5	6681.4	6589.5	6477.3	6307.4	6153.1	5998.8	5936.5	5744.8
7.5°	7247.2	7241.0	7230.1	7206.7	7121.0	7005.6	6776.5	6547.4	6319.9	6226.4	5895.9
10°	7568.3	7582.3	7591.6	7602.5	7566.7	7484.1	7267.5	6988.5	6690.8	6563.0	6076.7
12.5°	7730.3	7755.3	7798.9	7873.7	7933.0	7923.6	7766.2	7470.1	7116.3	6955.8	6302.7
15°	7825.4	7858.1	7926.7	8060.8	8227.5	8322.6	8280.5	8012.4	7618.1	7420.2	6578.6
17.5°	7884.6	7911.1	8017.1	8196.3	8444.2	8696.6	8807.3	8582.9	8185.4	7959.4	6895.0
20°	7925.2	7945.4	8077.9	8288.3	8609.4	9011.5	9320.1	9263.9	8810.4	8517.4	7225.4
22.5°	8015.6	8032.7	8158.9	8370.9	8726.2	9245.2	9814.1	9898.3	9469.7	9137.7	7579.2
25°	8268.0	8268.0	8374.0	8522.1	8855.6	9447.9	10231.8	10604.3	10143.0	9756.4	7906.5
27.5°	8749.6	8745.0	8783.9	8835.3	9087.8	9653.6	10604.3	11227.7	10841.2	10418.8	8224.4
30°	9320.1	9351.2	9355.9	9331.0	9449.4	9910.7	10948.7	11885.4	11544.1	11089.0	8550.1
32.5°	10054.1	10074.4	10051.0	9968.4	9951.3	10275.4	11286.9	12574.3	12304.6	11788.8	8847.8
35°	10986.1	10947.2	10873.9	10705.6	10545.1	10763.3	11673.4	13263.2	13158.7	12635.1	9257.7
37.5°	11985.1	11986.7	11896.3	11514.5	11293.2	11386.7	12206.5	14044.0	14192.0	13641.9	9782.9
40°	12786.2	12828.3	12884.4	12382.6	12095.8	12225.2	12884.4	14949.5	15413.9	14835.7	10467.1
42.5°	13345.8	13394.1	13553.0	13238.2	12940.5	13180.5	13682.4	15915.8	16785.4	16213.5	11268.2
45°	13938.0	13964.5	14076.7	13941.1	13751.0	14291.8	14581.7	16916.4	18236.4	17681.6	12164.4
47.5°	14561.4	14589.5	14704.8	14614.4	14514.7	15329.8	15519.9	17859.3	19626.7	19294.7	13121.3
50°	15331.3	15350.0	15459.1	15295.5	15326.7	16112.2	16358.4	18724.3	21083.9	20744.1	14081.4
52.5°	16381.8	16386.5	16537.6	16389.6	16243.1	16685.7	17080.0	19539.4	22226.3	22065.8	15041.4
55°	17204.7	17254.6	17750.2	17719.0	17634.8	17206.2	17683.2	20315.5	23245.6	23321.9	16060.7
57.5°	16679.5	16874.3	17878.0	18585.6	19274.4	18501.4	18498.3	21189.9	24193.2	24554.8	17181.3
60°	14608.2	14873.1	16352.2	17921.6	20077.1	20755.0	20190.8	22257.5	25150.1	25776.6	18585.6
62.5°	10432.8	10869.2	12873.5	15379.6	18976.7	22248.1	23635.2	23951.6	26451.5	27191.8	20410.6
65°	5274.1	5604.5	7284.6	10303.5	15161.4	21272.5	27378.8	27660.9	28712.9	29370.6	23220.6
67.5°	3204.4	3329.0	4148.8	5730.7	9295.1	16570.4	28600.7	33843.6	33089.3	33438.4	27227.6
70°	2361.2	2453.1	2964.3	3805.9	5345.8	9723.7	24850.9	38255.9	37760.2	37721.3	30188.9
72°	1839.1	1906.1	2358.1	3075.0	3908.8	5833.6	18012.0	36627.2	39097.5	38901.1	29917.7
72.5°	1744.0	1803.2	2214.7	2894.2	3693.7	5288.1	16194.8	35528.4	39000.8	38912.0	29567.0
75°	1373.1	1415.2	1639.6	2238.1	2891.1	3000.2	8874.3	27533.1	34598.0	36036.5	26593.3
77.5°	1136.2	1142.4	1260.9	1628.7	2253.6	2121.2	4359.2	19103.0	24774.5	26356.4	18838.0
80°	925.8	933.6	989.7	1142.4	1705.0	1569.4	2069.7	10984.6	13871.0	13888.1	8958.5
82.5°	737.2	738.7	801.1	835.4	1225.0	1122.1	1186.0	5157.2	6061.2	5830.5	3219.9
85°	519.0	508.1	782.4	685.8	801.1	720.0	654.6	2041.7	2506.1	2397.0	1008.4
87.5°	173.0	179.2	347.6	444.2	467.6	408.3	291.4	782.4	946.0	938.2	319.5
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°	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7	5568.7
2.5°	5596.7	5546.8	5473.6	5392.5	5328.6	5263.2	5214.9	5189.9	5161.9	5138.5	5166.6
5°	5655.9	5562.4	5406.6	5253.8	5141.6	5041.9	4970.2	4932.8	4898.5	4875.1	4878.2
7.5°	5752.6	5601.4	5339.5	5116.7	4960.8	4853.3	4780.0	4755.1	4733.3	4727.0	4734.8
10°	5855.4	5632.6	5250.7	4954.6	4776.9	4688.1	4655.4	4672.5	4688.1	4702.1	4717.7
12.5°	5972.3	5660.6	5121.4	4764.4	4613.3	4579.0	4611.7	4686.5	4741.1	4773.8	4794.1
15°	6125.1	5685.5	4971.7	4574.3	4473.0	4512.0	4622.6	4752.0	4847.1	4907.8	4917.2
17.5°	6265.3	5684.0	4780.0	4382.6	4359.2	4473.0	4639.8	4822.1	4949.9	5035.6	5052.8
20°	6410.3	5641.9	4557.2	4195.6	4243.9	4430.9	4647.6	4867.3	5021.6	5121.4	5144.7
22.5°	6545.9	5568.7	4312.5	4025.7	4147.3	4374.8	4617.9	4840.8	4995.1	5076.2	5101.1
25°	6637.8	5440.9	4064.7	3882.3	4061.5	4306.2	4521.3	4700.5	4815.9	4856.4	4862.6
27.5°	6684.6	5274.1	3830.9	3757.6	3972.7	4194.0	4342.1	4430.9	4463.7	4460.5	4454.3
30°	6690.8	5054.3	3629.8	3656.3	3869.8	4028.8	4099.0	4081.8	4039.7	3968.0	3974.3
32.5°	6670.5	4806.5	3461.5	3559.7	3738.9	3827.8	3830.9	3748.3	3636.1	3522.3	3491.1
35°	6676.8	4563.4	3313.4	3450.6	3580.0	3618.9	3583.1	3461.5	3308.8	3162.3	3131.1
37.5°	6745.3	4351.4	3185.6	3324.4	3403.8	3413.2	3361.8	3234.0	3121.7	2978.4	2965.9
40°	6909.0	4200.3	3064.1	3182.5	3227.7	3232.4	3159.2	3068.8	3078.1	3001.7	3000.2
42.5°	7203.6	4134.8	2956.5	3034.5	3062.5	3071.9	3015.8	2958.1	3039.1	2989.3	2972.1
45°	7583.8	4150.4	2866.1	2889.5	2941.0	2984.6	2950.3	2880.2	2911.3	2694.7	2623.0
47.5°	8023.3	4250.1	2794.5	2764.8	2853.7	2936.3	2883.3	2777.3	2666.7	2451.6	2411.1
50°	8537.7	4404.4	2729.0	2641.7	2758.6	2870.8	2817.8	2666.7	2499.9	2395.5	2381.4
52.5°	9073.8	4593.0	2663.5	2506.1	2638.6	2821.0	2794.5	2641.7	2436.0	2333.1	2314.4
55°	9681.6	4783.2	2580.9	2348.7	2509.2	2797.6	2783.5	2551.3	2387.7	2330.0	2316.0
57.5°	10437.5	4999.8	2471.8	2185.1	2387.7	2713.4	2669.8	2496.8	2337.8	2294.2	2289.5
60°	11422.5	5319.3	2314.4	2010.5	2239.6	2584.1	2574.7	2417.3	2258.3	2227.1	2220.9
62.5°	12900.0	5847.6	2097.8	1836.0	2074.4	2364.3	2450.0	2309.8	2174.2	2172.6	2175.7
65°	15191.1	6642.5	1862.5	1683.2	1907.6	2178.8	2305.1	2199.1	2088.4	2119.6	2124.3
67.5°	17846.8	7301.7	1631.8	1533.6	1737.8	2002.7	2174.2	2088.4	1974.7	2055.7	2057.3
70°	18730.5	6712.6	1429.2	1385.5	1561.7	1832.8	2032.3	1966.9	1851.5	1932.6	1924.8
72°	17430.7	5419.0	1298.3	1273.3	1429.2	1692.6	1906.1	1853.1	1739.3	1793.9	1773.6
72.5°	17020.8	5166.6	1265.5	1245.3	1393.3	1656.7	1873.4	1825.0	1711.3	1758.0	1739.3
75°	15183.3	4487.0	1087.9	1092.5	1215.7	1482.2	1689.5	1673.9	1557.0	1561.7	1555.4
77.5°	11012.6	3290.1	916.4	947.6	1034.9	1302.9	1504.0	1494.6	1366.8	1343.5	1338.8
80°	5110.4	1678.5	746.5	760.6	851.0	1089.4	1282.7	1270.2	1167.3	1137.7	1120.6
82.5°	1750.2	798.0	561.1	570.4	659.3	877.5	1112.8	1105.0	1019.3	961.6	925.8
85°	625.0	397.4	392.8	383.4	470.7	690.4	969.4	927.3	801.1	682.6	679.5
87.5°	202.6	169.9	202.6	201.1	274.3	467.6	704.5	600.0	581.3	483.1	473.8
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)