

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: P318074

Luminaire Tested: **GAN-SA0A-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318074
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-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45265 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

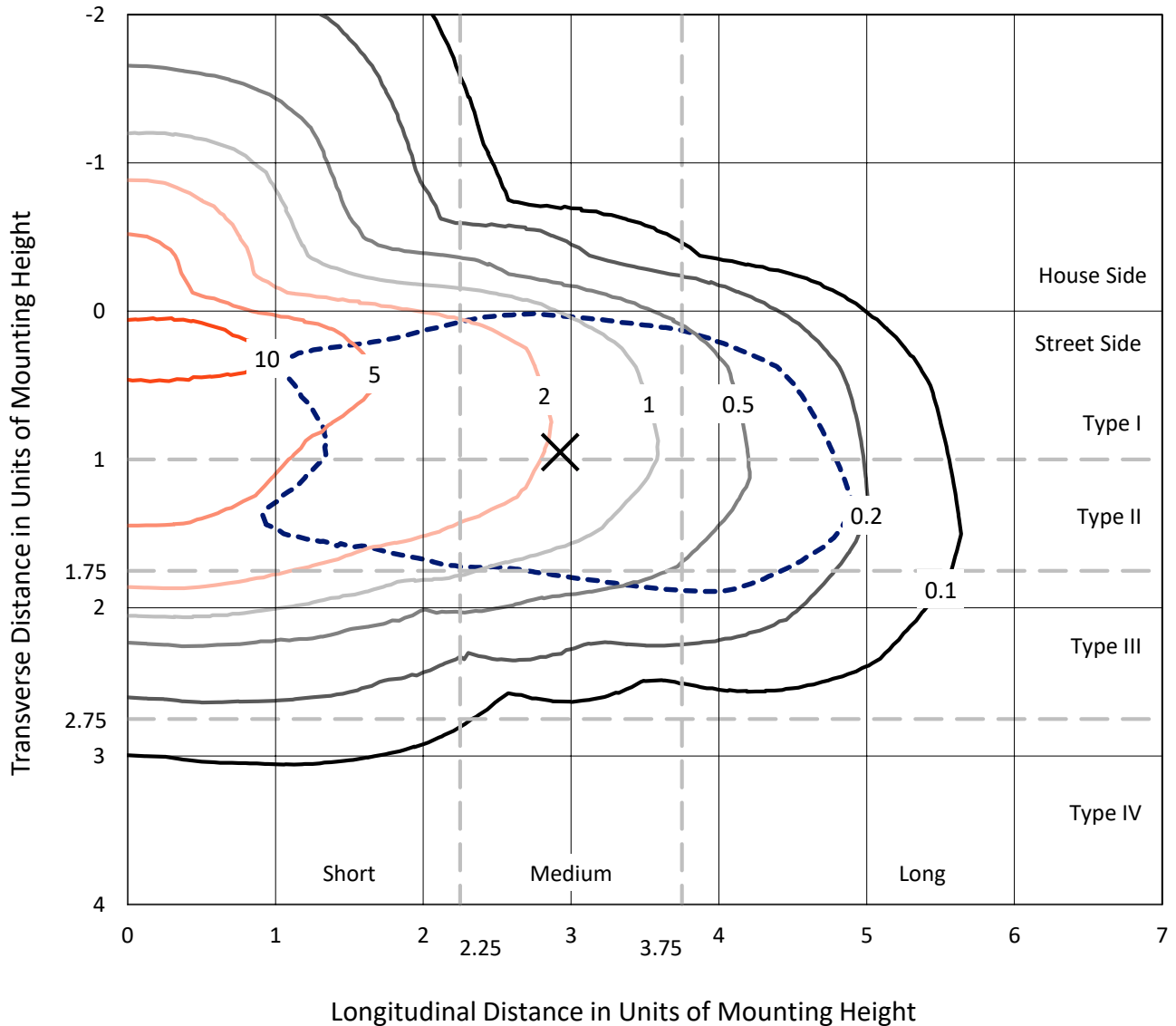
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

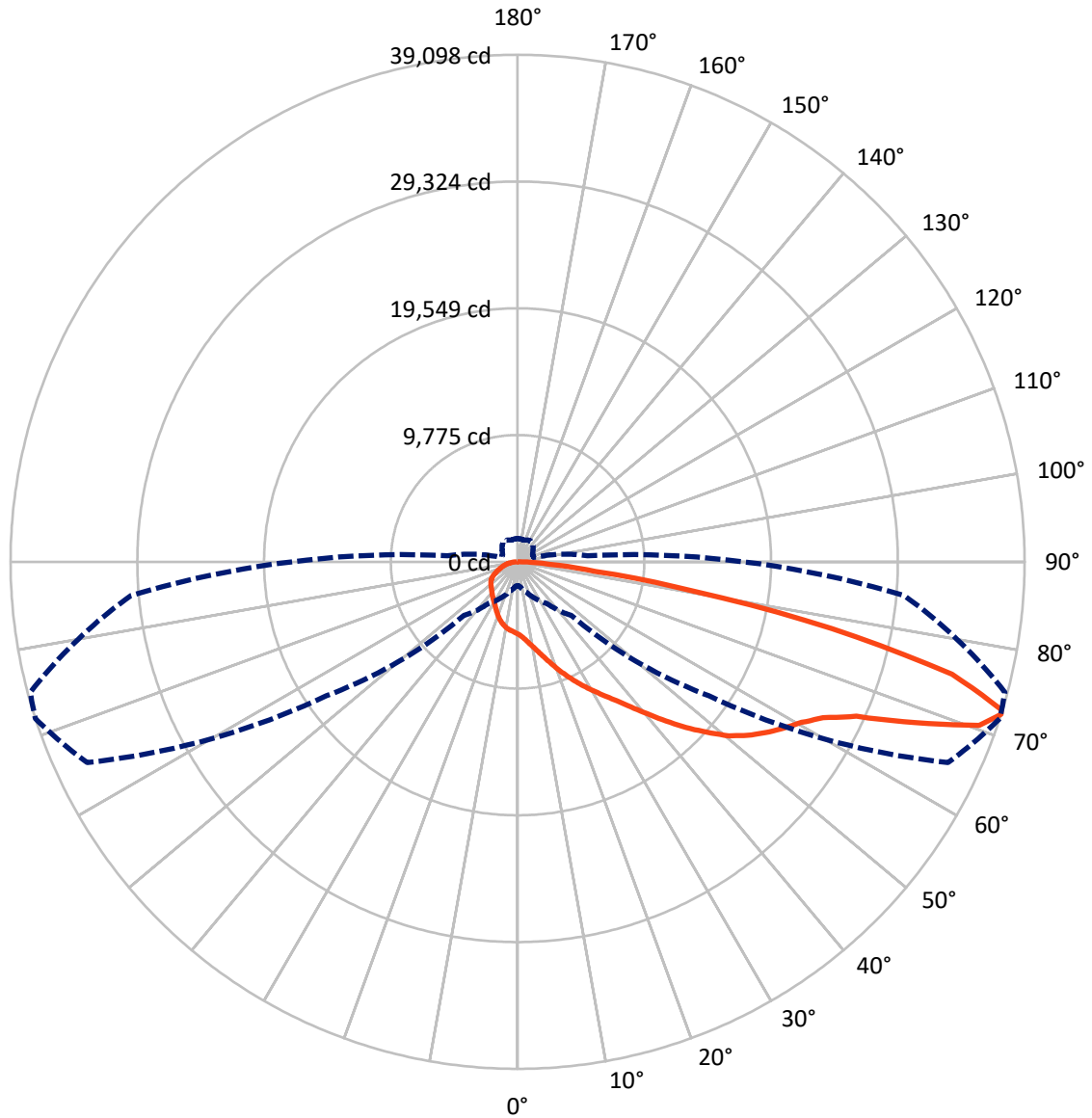
✕ Max cd
 - - - 1/2 Max cd



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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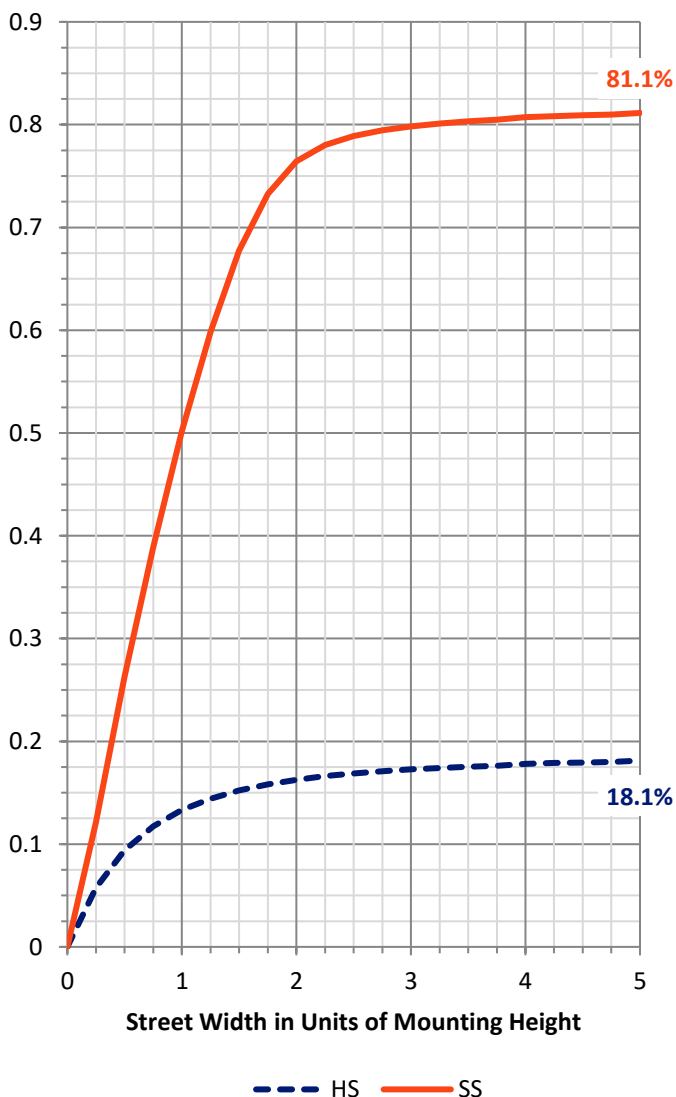
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8397.0	0.0	8397.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36868.0	0.0	36868.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	45265.0	0.0	45265.0
	% 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°	3159.8	7.0
30°-40°	4685.0	10.4
40°-50°	6852.2	15.1
50°-60°	9428.5	20.8
60°-70°	10496.7	23.2
70°-80°	7112.6	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°	45265.0	100.0
0°-180°	45265.0	100.0

Coefficient of Utilization

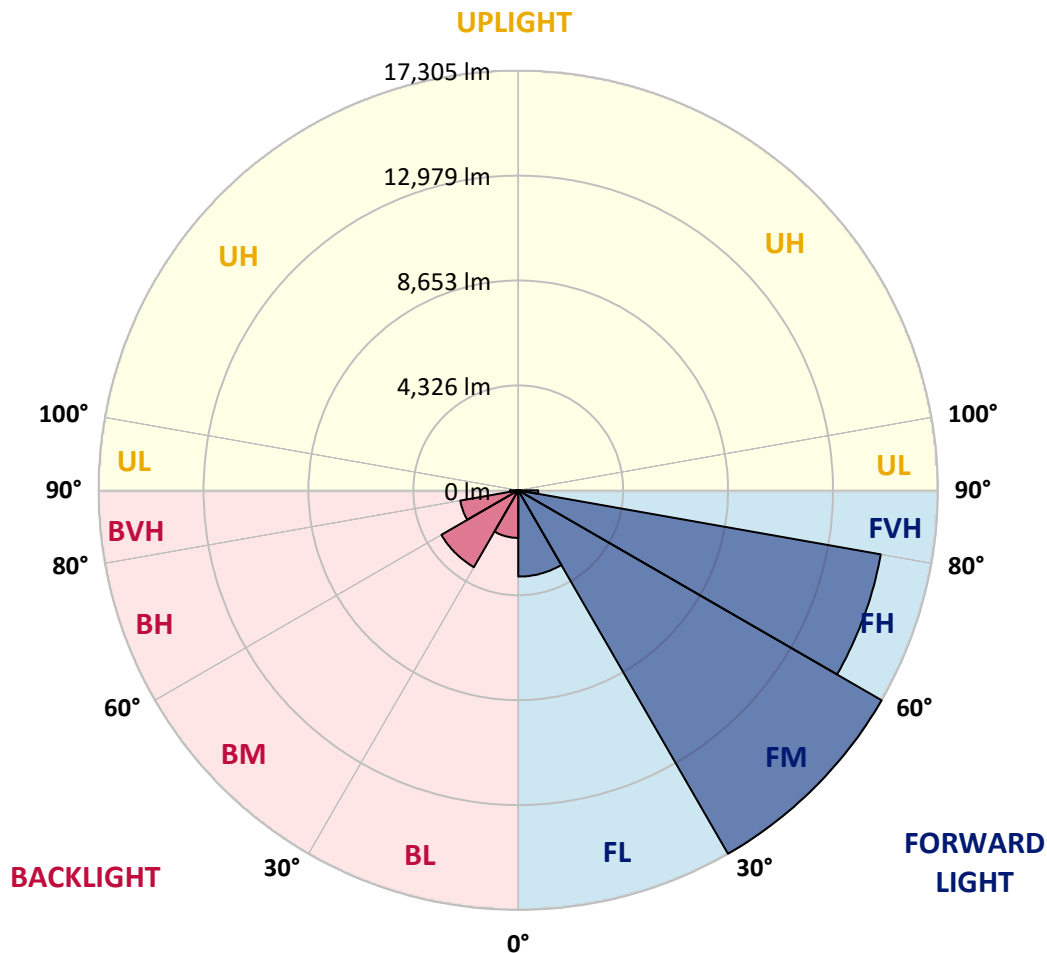


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3558.1	7.9			
FM (30°-60°)	17305.4	38.2			
FH (60°-80°)	15180.0	33.5			G5
FVH (80°-90°)	824.6	1.8			G5
BL (0°-30°)	1962.9	4.3	B3/2500		
BM (30°-60°)	3660.3	8.1	B3/5000		
BH (60°-80°)	2429.4	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°	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8
2.5°	6151.7	6142.3	6109.6	6109.6	6047.3	5994.3	5894.5	5827.5	5748.0	5720.0	5626.4
5°	6747.1	6750.2	6709.7	6681.6	6589.6	6477.4	6307.5	6153.2	5998.9	5936.6	5744.9
7.5°	7247.4	7241.1	7230.2	7206.8	7121.1	7005.8	6776.7	6547.6	6320.0	6226.5	5896.1
10°	7568.4	7582.5	7591.8	7602.7	7566.9	7484.3	7267.6	6988.6	6690.9	6563.1	6076.9
12.5°	7730.5	7755.5	7799.1	7873.9	7933.1	7923.8	7766.4	7470.2	7116.4	6955.9	6302.9
15°	7825.6	7858.3	7926.9	8060.9	8227.7	8322.8	8280.7	8012.6	7618.3	7420.4	6578.7
17.5°	7884.8	7911.3	8017.3	8196.5	8444.3	8696.8	8807.5	8583.1	8185.6	7959.6	6895.1
20°	7925.3	7945.6	8078.1	8288.5	8609.5	9011.7	9320.3	9264.1	8810.6	8517.6	7225.5
22.5°	8015.7	8032.9	8159.1	8371.1	8726.4	9245.4	9814.3	9898.5	9469.9	9137.9	7579.3
25°	8268.2	8268.2	8374.2	8522.3	8855.8	9448.1	10232.0	10604.5	10143.2	9756.7	7906.6
27.5°	8749.8	8745.1	8784.1	8835.5	9088.0	9653.8	10604.5	11227.9	10841.4	10419.1	8224.6
30°	9320.3	9351.4	9356.1	9331.2	9449.6	9911.0	10949.0	11885.7	11544.3	11089.2	8550.3
32.5°	10054.3	10074.6	10051.2	9968.6	9951.5	10275.7	11287.2	12574.6	12304.9	11789.0	8848.0
35°	10986.4	10947.4	10874.2	10705.8	10545.3	10763.5	11673.7	13263.4	13159.0	12635.3	9257.9
37.5°	11985.4	11987.0	11896.6	11514.7	11293.4	11386.9	12206.7	14044.3	14192.4	13642.2	9783.2
40°	12786.5	12828.6	12884.7	12382.9	12096.1	12225.4	12884.7	14949.8	15414.3	14836.0	10467.4
42.5°	13346.0	13394.4	13553.3	13238.5	12940.8	13180.8	13682.7	15916.1	16785.8	16213.8	11268.5
45°	13938.3	13964.8	14077.0	13941.4	13751.3	14292.1	14582.0	16916.7	18236.8	17682.0	12164.7
47.5°	14561.7	14589.8	14705.1	14614.7	14515.0	15330.1	15520.3	17859.7	19627.1	19295.1	13121.6
50°	15331.7	15350.4	15459.5	15295.8	15327.0	16112.5	16358.8	18724.7	21084.4	20744.6	14081.7
52.5°	16382.1	16386.8	16538.0	16389.9	16243.4	16686.1	17080.4	19539.8	22226.8	22066.3	15041.8
55°	17205.1	17254.9	17750.6	17719.4	17635.2	17206.6	17683.6	20316.0	23246.1	23322.5	16061.1
57.5°	16679.8	16874.7	17878.4	18586.0	19274.9	18501.8	18498.7	21190.3	24193.7	24555.3	17181.7
60°	14608.5	14873.4	16352.5	17922.0	20077.5	20755.5	20191.3	22258.0	25150.7	25777.2	18586.0
62.5°	10433.1	10869.5	12873.8	15380.0	18977.2	22248.6	23635.7	23952.1	26452.1	27192.4	20411.1
65°	5274.2	5604.6	7284.8	10303.7	15161.8	21272.9	27379.4	27661.5	28713.6	29371.3	23221.2
67.5°	3204.4	3329.1	4148.9	5730.9	9295.3	16570.7	28601.3	33844.4	33090.0	33439.2	27228.2
70°	2361.2	2453.2	2964.4	3806.0	5345.9	9723.9	24851.4	38256.7	37761.1	37722.1	30189.5
72°	1839.1	1906.1	2358.1	3075.1	3908.9	5833.7	18012.4	36628.0	39098.3	38901.9	29918.3
72.5°	1744.0	1803.3	2214.7	2894.3	3693.8	5288.2	16195.1	35529.2	39001.7	38912.9	29567.7
75°	1373.1	1415.2	1639.6	2238.1	2891.2	3000.3	8874.5	27533.7	34598.7	36037.3	26593.9
77.5°	1136.2	1142.4	1260.9	1628.7	2253.7	2121.2	4359.3	19103.4	24775.1	26357.0	18838.5
80°	925.8	933.6	989.7	1142.4	1705.1	1569.5	2069.8	10984.8	13871.3	13888.4	8958.7
82.5°	737.2	738.8	801.1	835.4	1225.0	1122.2	1186.1	5157.3	6061.3	5830.6	3220.0
85°	519.0	508.1	782.4	685.8	801.1	720.1	654.6	2041.7	2506.2	2397.1	1008.4
87.5°	173.0	179.2	347.6	444.2	467.6	408.3	291.5	782.4	946.1	938.3	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°	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8	5568.8
2.5°	5596.8	5547.0	5473.7	5392.7	5328.8	5263.3	5215.0	5190.0	5162.0	5138.6	5166.7
5°	5656.1	5562.5	5406.7	5253.9	5141.7	5042.0	4970.3	4932.9	4898.6	4875.2	4878.3
7.5°	5752.7	5601.5	5339.7	5116.8	4960.9	4853.4	4780.1	4755.2	4733.4	4727.1	4734.9
10°	5855.6	5632.7	5250.8	4954.7	4777.0	4688.2	4655.5	4672.6	4688.2	4702.2	4717.8
12.5°	5972.4	5660.7	5121.5	4764.6	4613.4	4579.1	4611.8	4686.6	4741.2	4773.9	4794.2
15°	6125.2	5685.7	4971.8	4574.4	4473.1	4512.1	4622.7	4752.1	4847.2	4907.9	4917.3
17.5°	6265.5	5684.1	4780.1	4382.7	4359.3	4473.1	4639.9	4822.2	4950.0	5035.7	5052.9
20°	6410.4	5642.0	4557.3	4195.7	4244.0	4431.0	4647.7	4867.4	5021.7	5121.5	5144.8
22.5°	6546.0	5568.8	4312.6	4025.8	4147.4	4374.9	4618.0	4840.9	4995.2	5076.3	5101.2
25°	6638.0	5441.0	4064.8	3882.4	4061.6	4306.3	4521.4	4700.7	4816.0	4856.5	4862.7
27.5°	6684.7	5274.2	3831.0	3757.7	3972.8	4194.1	4342.2	4431.0	4463.7	4460.6	4454.4
30°	6690.9	5054.4	3629.9	3656.4	3869.9	4028.9	4099.0	4081.9	4039.8	3968.1	3974.4
32.5°	6670.7	4806.6	3461.6	3559.8	3739.0	3827.9	3831.0	3748.4	3636.1	3522.4	3491.2
35°	6676.9	4563.5	3313.5	3450.7	3580.0	3619.0	3583.2	3461.6	3308.8	3162.3	3131.2
37.5°	6745.5	4351.5	3185.7	3324.4	3403.9	3413.3	3361.8	3234.0	3121.8	2978.4	2966.0
40°	6909.1	4200.4	3064.2	3182.6	3227.8	3232.5	3159.2	3068.8	3078.2	3001.8	3000.3
42.5°	7203.7	4134.9	2956.6	3034.5	3062.6	3071.9	3015.8	2958.2	3039.2	2989.3	2972.2
45°	7584.0	4150.5	2866.2	2889.6	2941.0	2984.7	2950.4	2880.2	2911.4	2694.8	2623.1
47.5°	8023.5	4250.2	2794.5	2764.9	2853.7	2936.3	2883.4	2777.4	2666.7	2451.6	2411.1
50°	8537.9	4404.5	2729.1	2641.8	2758.7	2870.9	2817.9	2666.7	2499.9	2395.5	2381.5
52.5°	9074.0	4593.1	2663.6	2506.2	2638.7	2821.0	2794.5	2641.8	2436.0	2333.2	2314.5
55°	9681.8	4783.3	2581.0	2348.8	2509.3	2797.6	2783.6	2551.4	2387.7	2330.1	2316.0
57.5°	10437.8	4999.9	2471.9	2185.1	2387.7	2713.5	2669.8	2496.8	2337.9	2294.2	2289.5
60°	11422.8	5319.4	2314.5	2010.6	2239.7	2584.1	2574.8	2417.3	2258.4	2227.2	2221.0
62.5°	12900.3	5847.8	2097.8	1836.0	2074.5	2364.4	2450.1	2309.8	2174.2	2172.6	2175.8
65°	15191.4	6642.6	1862.5	1683.3	1907.7	2178.9	2305.1	2199.1	2088.5	2119.7	2124.3
67.5°	17847.2	7301.9	1631.8	1533.6	1737.8	2002.8	2174.2	2088.5	1974.7	2055.8	2057.3
70°	18730.9	6712.8	1429.2	1385.6	1561.7	1832.9	2032.4	1966.9	1851.6	1932.6	1924.8
72°	17431.1	5419.2	1298.3	1273.4	1429.2	1692.6	1906.1	1853.1	1739.4	1793.9	1773.7
72.5°	17021.2	5166.7	1265.6	1245.3	1393.4	1656.8	1873.4	1825.1	1711.3	1758.1	1739.4
75°	15183.6	4487.1	1087.9	1092.6	1215.7	1482.2	1689.5	1673.9	1557.0	1561.7	1555.5
77.5°	11012.9	3290.1	916.4	947.6	1034.9	1303.0	1504.0	1494.7	1366.9	1343.5	1338.8
80°	5110.6	1678.6	746.6	760.6	851.0	1089.4	1282.7	1270.2	1167.4	1137.8	1120.6
82.5°	1750.3	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	927.4	801.1	682.7	679.5
87.5°	202.6	169.9	202.6	201.1	274.3	467.6	704.5	600.1	581.3	483.2	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)