

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: P318033

Luminaire Tested: **GAN-SA9A-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318033
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-SA9A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37232 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

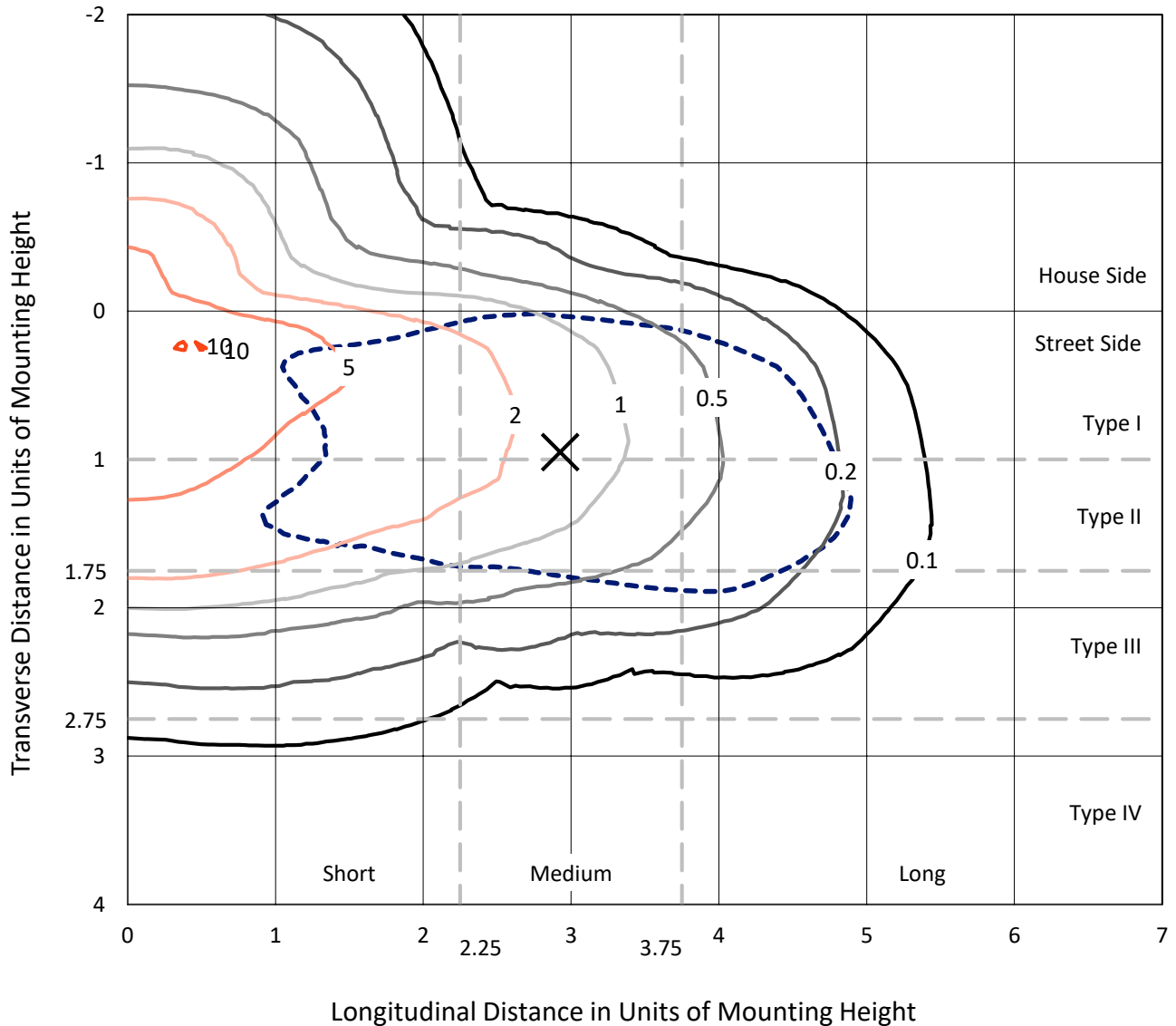
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

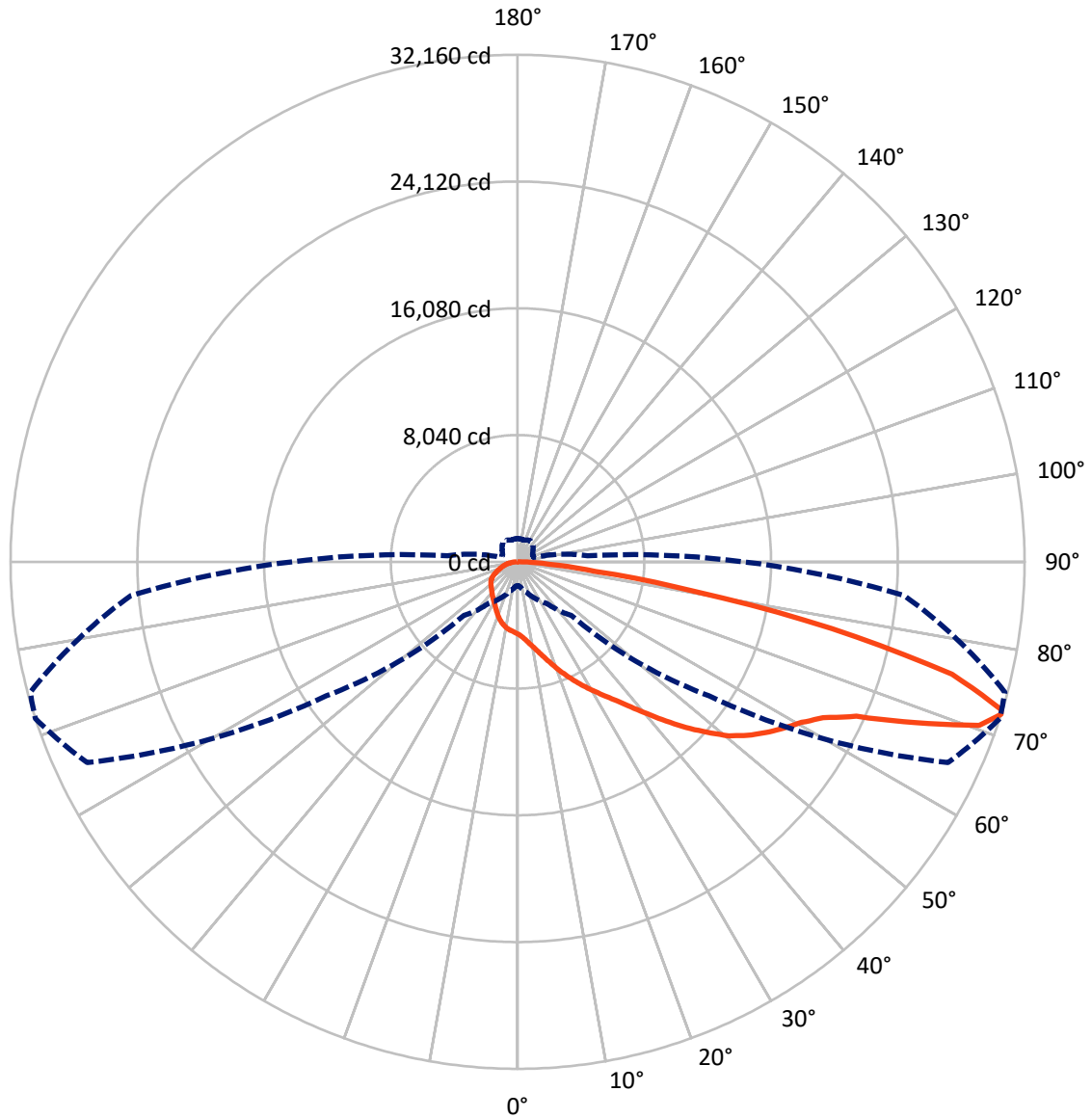
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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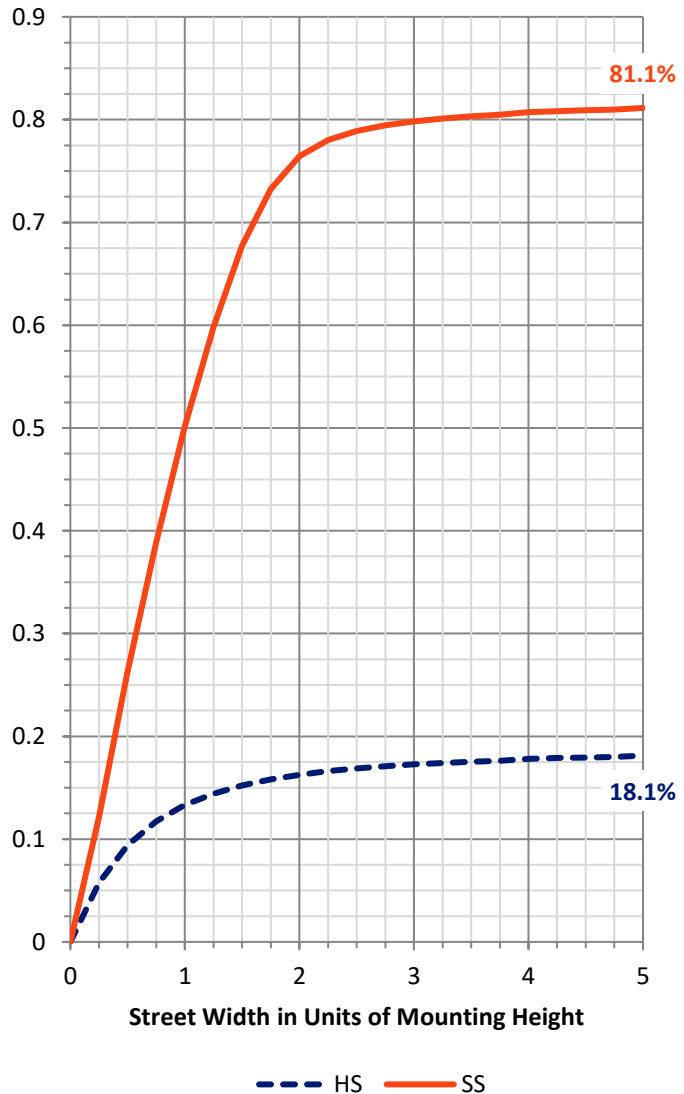
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6906.8	0.0	6906.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30325.2	0.0	30325.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	37232.0	0.0	37232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	1.2
10°-20°	1483.2	4.0
20°-30°	2599.0	7.0
30°-40°	3853.6	10.4
40°-50°	5636.1	15.1
50°-60°	7755.3	20.8
60°-70°	8633.9	23.2
70°-80°	5850.3	15.7
80°-90°	961.6	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°	37232.0	100.0
0°-180°	37232.0	100.0

Coefficient of Utilization

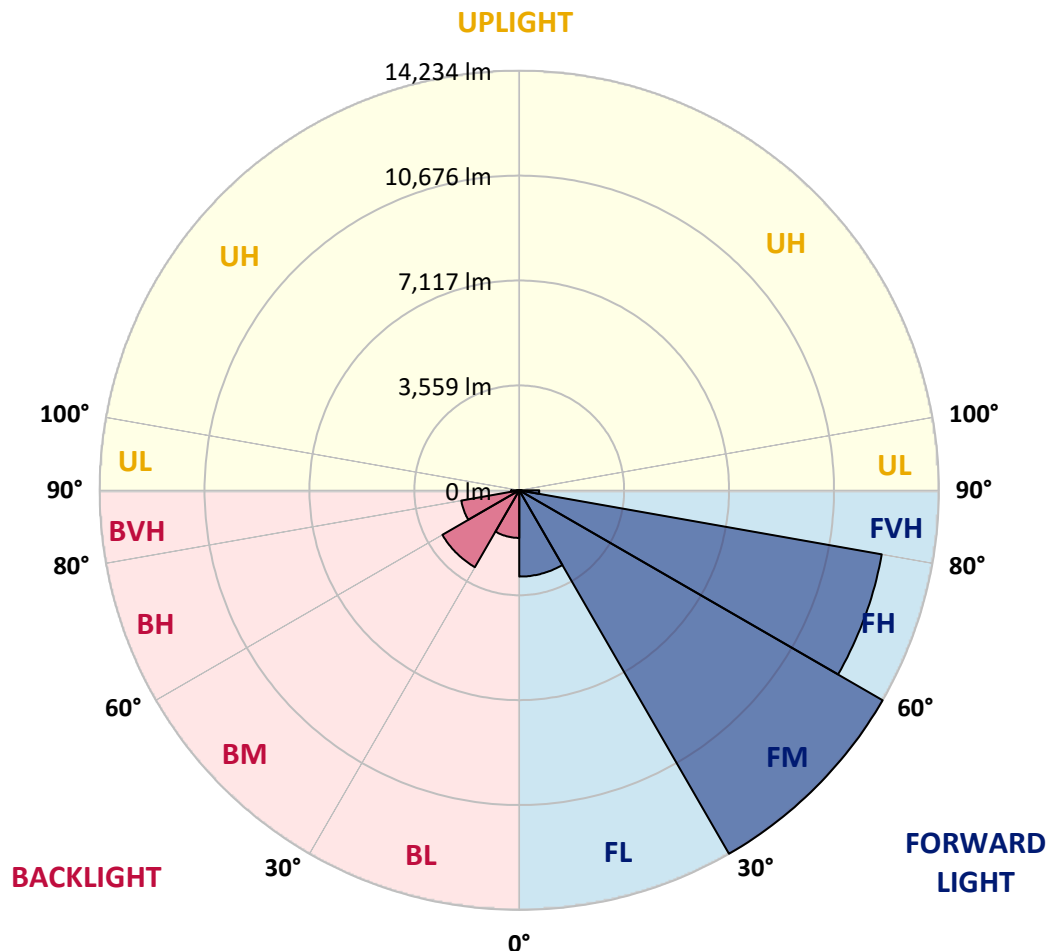


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.7	7.9			
FM (30°-60°)	14234.3	38.2			
FH (60°-80°)	12486.0	33.5			G5
FVH (80°-90°)	678.3	1.8			G4/750
BL (0°-30°)	1614.6	4.3	B3/2500		
BM (30°-60°)	3010.7	8.1	B3/5000		
BH (60°-80°)	1998.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	283.3	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°	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5
2.5°	5060.0	5052.3	5025.4	5025.4	4974.1	4930.5	4848.4	4793.3	4727.9	4704.9	4627.9
5°	5549.7	5552.2	5518.9	5495.8	5420.2	5327.9	5188.2	5061.2	4934.3	4883.1	4725.4
7.5°	5961.2	5956.1	5947.1	5927.9	5857.4	5762.5	5574.0	5385.6	5198.4	5121.5	4849.7
10°	6225.3	6236.8	6244.5	6253.5	6224.0	6156.1	5977.9	5748.4	5503.5	5398.4	4998.4
12.5°	6358.6	6379.1	6415.0	6476.6	6525.3	6517.6	6388.1	6144.5	5853.5	5721.5	5184.3
15°	6436.8	6463.7	6520.1	6630.4	6767.6	6845.8	6811.1	6590.6	6266.3	6103.5	5411.2
17.5°	6485.5	6507.3	6594.5	6741.9	6945.8	7153.4	7244.5	7059.9	6732.9	6547.1	5671.5
20°	6518.9	6535.5	6644.5	6817.6	7081.6	7412.4	7666.2	7620.1	7247.0	7006.0	5943.2
22.5°	6593.2	6607.3	6711.2	6885.5	7177.8	7604.7	8072.6	8141.8	7789.3	7516.2	6234.3
25°	6800.9	6800.9	6888.1	7009.9	7284.2	7771.4	8416.2	8722.6	8343.1	8025.2	6503.5
27.5°	7197.0	7193.2	7225.2	7267.5	7475.2	7940.6	8722.6	9235.4	8917.4	8570.0	6765.0
30°	7666.2	7691.9	7695.7	7675.2	7772.6	8152.1	9005.9	9776.4	9495.6	9121.3	7032.9
32.5°	8270.0	8286.7	8267.5	8199.5	8185.4	8452.1	9284.1	10343.0	10121.2	9696.9	7277.8
35°	9036.7	9004.6	8944.4	8805.9	8673.9	8853.3	9602.0	10909.6	10823.7	10393.0	7614.9
37.5°	9858.4	9859.7	9785.3	9471.3	9289.2	9366.1	10040.5	11551.9	11673.7	11221.2	8047.0
40°	10517.3	10552.0	10598.1	10185.3	9949.4	10055.8	10598.1	12296.7	12678.8	12203.1	8609.8
42.5°	10977.6	11017.3	11148.1	10889.1	10644.3	10841.7	11254.5	13091.6	13806.9	13336.4	9268.7
45°	11464.7	11486.5	11578.8	11467.3	11310.9	11755.7	11994.2	13914.6	15000.4	14544.0	10005.8
47.5°	11977.5	12000.6	12095.5	12021.1	11939.1	12609.5	12765.9	14690.2	16143.9	15870.9	10793.0
50°	12610.8	12626.2	12715.9	12581.3	12607.0	13253.1	13455.6	15401.7	17342.6	17063.1	11582.7
52.5°	13474.9	13478.7	13603.1	13481.3	13360.8	13724.9	14049.2	16072.2	18282.3	18150.2	12372.4
55°	14151.8	14192.8	14600.4	14574.8	14505.6	14153.0	14545.3	16710.6	19120.7	19183.5	13210.8
57.5°	13719.7	13880.0	14705.6	15287.6	15854.2	15218.4	15215.8	17429.8	19900.1	20197.6	14132.5
60°	12016.0	12233.9	13450.5	14741.5	16514.4	17072.1	16608.0	18307.9	20687.3	21202.6	15287.6
62.5°	8581.6	8940.5	10589.1	12650.6	15609.4	18300.2	19441.2	19701.4	21757.7	22366.7	16788.8
65°	4338.2	4610.0	5992.0	8475.2	12471.1	17497.7	22520.5	22752.5	23617.9	24158.9	19100.2
67.5°	2635.7	2738.3	3412.6	4713.8	7645.7	13630.0	23525.6	27838.2	27217.7	27504.8	22396.2
70°	1942.2	2017.8	2438.3	3130.6	4397.2	7998.3	20441.1	31467.4	31059.8	31027.7	24831.9
72°	1512.7	1567.9	1939.6	2529.3	3215.2	4798.4	14815.8	30127.8	32159.7	31998.2	24608.8
72.5°	1434.5	1483.2	1821.7	2380.6	3038.3	4349.8	13321.0	29224.0	32080.2	32007.1	24320.4
75°	1129.4	1164.0	1348.6	1840.9	2378.1	2467.8	7299.6	22647.4	28458.6	29641.9	21874.4
77.5°	934.6	939.7	1037.1	1339.7	1853.7	1744.8	3585.7	15713.2	20378.3	21679.5	15495.3
80°	761.5	767.9	814.1	939.7	1402.5	1291.0	1702.5	9035.4	11409.6	11423.7	7368.8
82.5°	606.4	607.7	658.9	687.1	1007.6	923.0	975.6	4242.1	4985.6	4795.9	2648.6
85°	426.9	417.9	643.6	564.1	658.9	592.3	538.4	1679.4	2061.4	1971.7	829.4
87.5°	142.3	147.4	285.9	365.4	384.6	335.9	239.7	643.6	778.2	771.8	262.8
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°	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5	4580.5
2.5°	4603.6	4562.6	4502.3	4435.6	4383.1	4329.2	4289.5	4269.0	4245.9	4226.7	4249.8
5°	4652.3	4575.4	4447.2	4321.5	4229.2	4147.2	4088.2	4057.5	4029.3	4010.0	4012.6
7.5°	4731.8	4607.4	4392.1	4208.7	4080.5	3992.1	3931.8	3911.3	3893.4	3888.2	3894.6
10°	4816.4	4633.1	4319.0	4075.4	3929.3	3856.2	3829.3	3843.4	3856.2	3867.7	3880.5
12.5°	4912.5	4656.1	4212.6	3919.0	3794.7	3766.5	3793.4	3854.9	3899.8	3926.7	3943.4
15°	5038.2	4676.7	4089.5	3762.6	3679.3	3711.3	3802.3	3908.8	3987.0	4036.9	4044.6
17.5°	5153.6	4675.4	3931.8	3604.9	3585.7	3679.3	3816.4	3966.4	4071.6	4142.1	4156.2
20°	5272.8	4640.8	3748.5	3451.1	3490.8	3644.7	3822.9	4003.6	4130.5	4212.6	4231.8
22.5°	5384.3	4580.5	3547.2	3311.3	3411.3	3598.5	3798.5	3981.8	4108.7	4175.4	4195.9
25°	5459.9	4475.4	3343.4	3193.4	3340.8	3542.1	3719.0	3866.4	3961.3	3994.6	3999.8
27.5°	5498.4	4338.2	3151.1	3090.8	3267.8	3449.8	3571.6	3644.7	3671.6	3669.0	3663.9
30°	5503.5	4157.5	2985.7	3007.5	3183.2	3313.9	3371.6	3357.5	3322.9	3263.9	3269.0
32.5°	5486.9	3953.6	2847.3	2928.0	3075.5	3148.5	3151.1	3083.2	2990.9	2897.3	2871.6
35°	5492.0	3753.6	2725.5	2838.3	2944.7	2976.8	2947.3	2847.3	2721.6	2601.1	2575.5
37.5°	5548.4	3579.3	2620.4	2734.5	2799.8	2807.5	2765.2	2660.1	2567.8	2449.9	2439.6
40°	5683.0	3454.9	2520.4	2617.8	2655.0	2658.8	2598.6	2524.2	2531.9	2469.1	2467.8
42.5°	5925.3	3401.1	2431.9	2496.0	2519.1	2526.8	2480.6	2433.2	2499.9	2458.8	2444.7
45°	6238.1	3413.9	2357.6	2376.8	2419.1	2455.0	2426.8	2369.1	2394.7	2216.5	2157.6
47.5°	6599.6	3496.0	2298.6	2274.2	2347.3	2415.2	2371.7	2284.5	2193.5	2016.6	1983.2
50°	7022.7	3622.9	2244.7	2173.0	2269.1	2361.4	2317.8	2193.5	2056.3	1970.4	1958.9
52.5°	7463.7	3778.0	2190.9	2061.4	2170.4	2320.4	2298.6	2173.0	2003.7	1919.1	1903.7
55°	7963.6	3934.4	2123.0	1931.9	2064.0	2301.2	2289.6	2098.6	1964.0	1916.6	1905.0
57.5°	8585.4	4112.6	2033.2	1797.3	1964.0	2231.9	2196.0	2053.7	1923.0	1887.1	1883.2
60°	9395.6	4375.4	1903.7	1653.8	1842.2	2125.5	2117.8	1988.3	1857.6	1831.9	1826.8
62.5°	10610.9	4810.0	1725.5	1510.2	1706.3	1944.8	2015.3	1899.9	1788.4	1787.1	1789.6
65°	12495.4	5463.8	1532.0	1384.5	1569.1	1792.2	1896.0	1808.9	1717.9	1743.5	1747.3
67.5°	14679.9	6006.1	1342.2	1261.5	1429.4	1647.3	1788.4	1717.9	1624.3	1690.9	1692.2
70°	15406.8	5521.5	1175.6	1139.7	1284.5	1507.6	1671.7	1617.9	1523.0	1589.7	1583.2
72°	14337.6	4457.4	1067.9	1047.4	1175.6	1392.2	1567.9	1524.3	1430.7	1475.6	1458.9
72.5°	14000.5	4249.8	1041.0	1024.3	1146.1	1362.7	1540.9	1501.2	1407.6	1446.1	1430.7
75°	12489.0	3690.8	894.8	898.7	999.9	1219.2	1389.7	1376.8	1280.7	1284.5	1279.4
77.5°	9058.5	2706.3	753.8	779.4	851.2	1071.7	1237.1	1229.4	1124.3	1105.1	1101.2
80°	4203.6	1380.7	614.1	625.6	700.0	896.1	1055.1	1044.8	960.2	935.8	921.7
82.5°	1439.7	656.4	461.5	469.2	542.3	721.8	915.3	908.9	838.4	791.0	761.5
85°	514.1	326.9	323.1	315.4	387.2	567.9	797.4	762.8	658.9	561.5	558.9
87.5°	166.7	139.7	166.7	165.4	225.6	384.6	579.5	493.6	478.2	397.4	389.7
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)