

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: P318712

Luminaire Tested: **GAN-SA8A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318712
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-SA8A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 37574 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

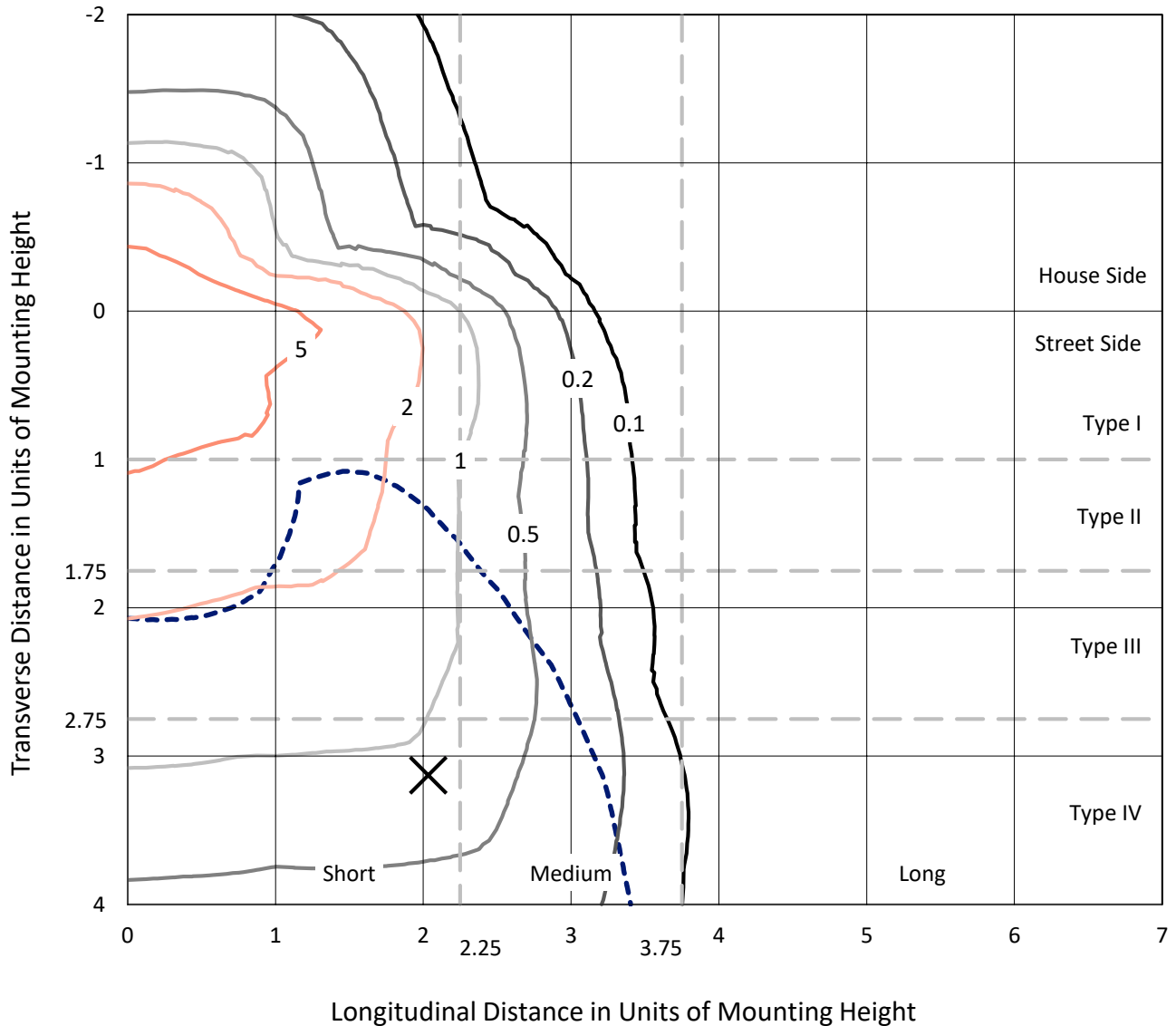
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

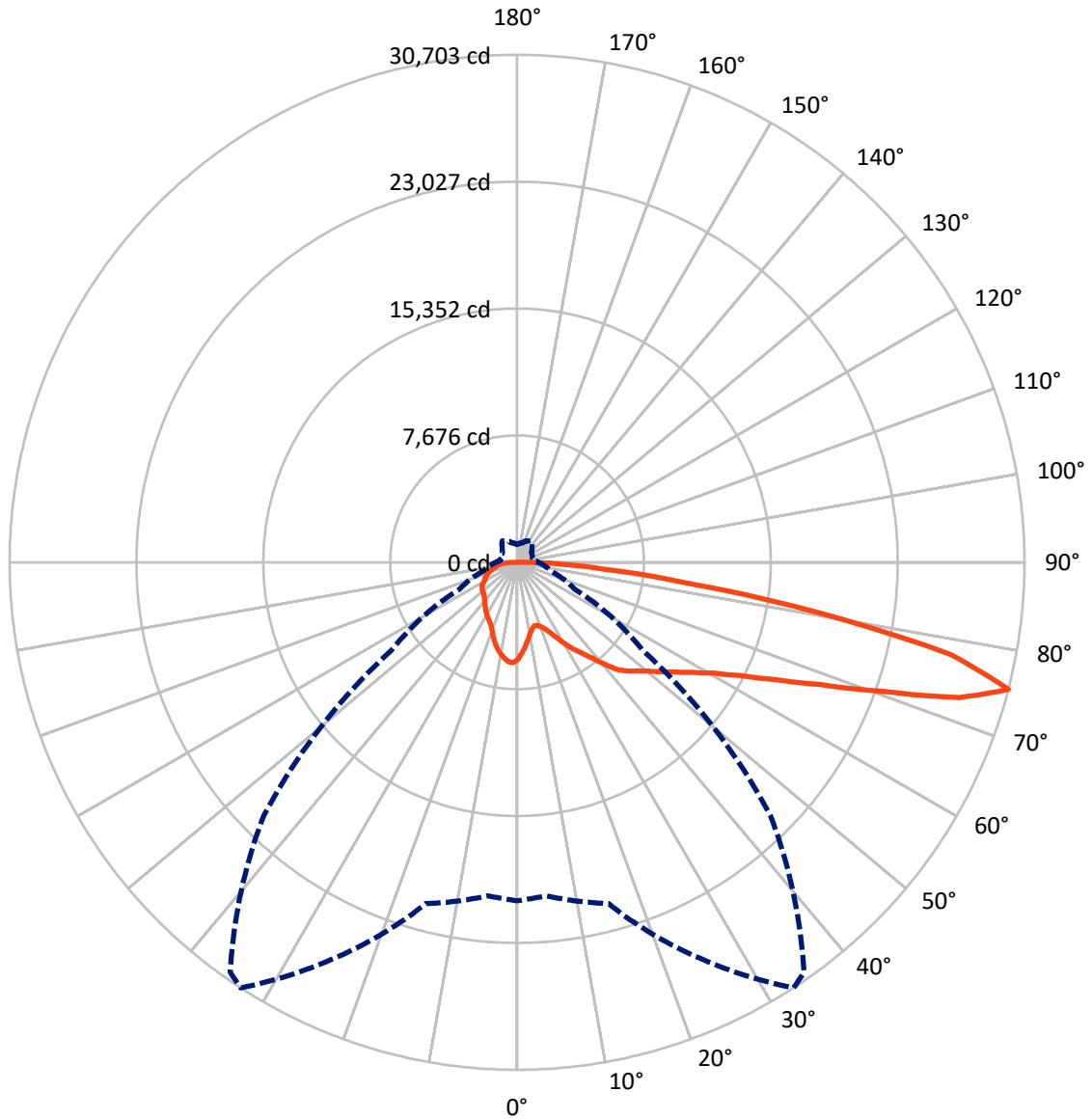
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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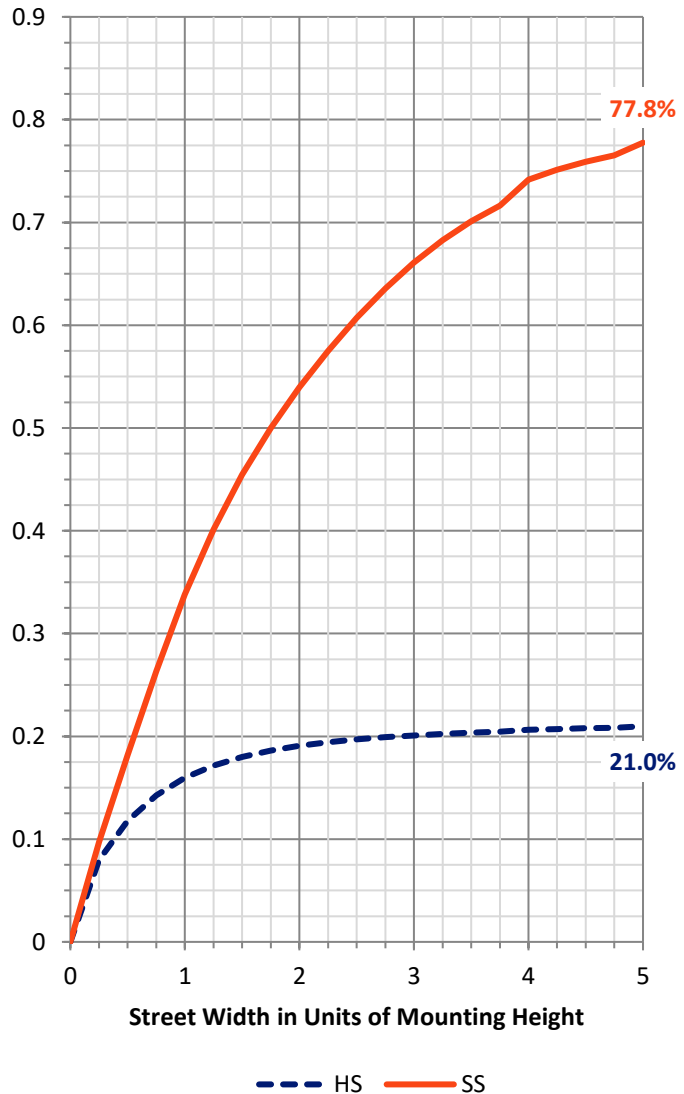
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8068.1	0.0	8068.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29505.9	0.0	29505.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	37574.0	0.0	37574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.1	1.4
10°-20°	1438.6	3.8
20°-30°	2349.4	6.3
30°-40°	3498.8	9.3
40°-50°	5018.2	13.4
50°-60°	6889.2	18.3
60°-70°	8625.0	23.0
70°-80°	7802.6	20.8
80°-90°	1421.3	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°	37574.0	100.0
0°-180°	37574.0	100.0

Coefficient of Utilization

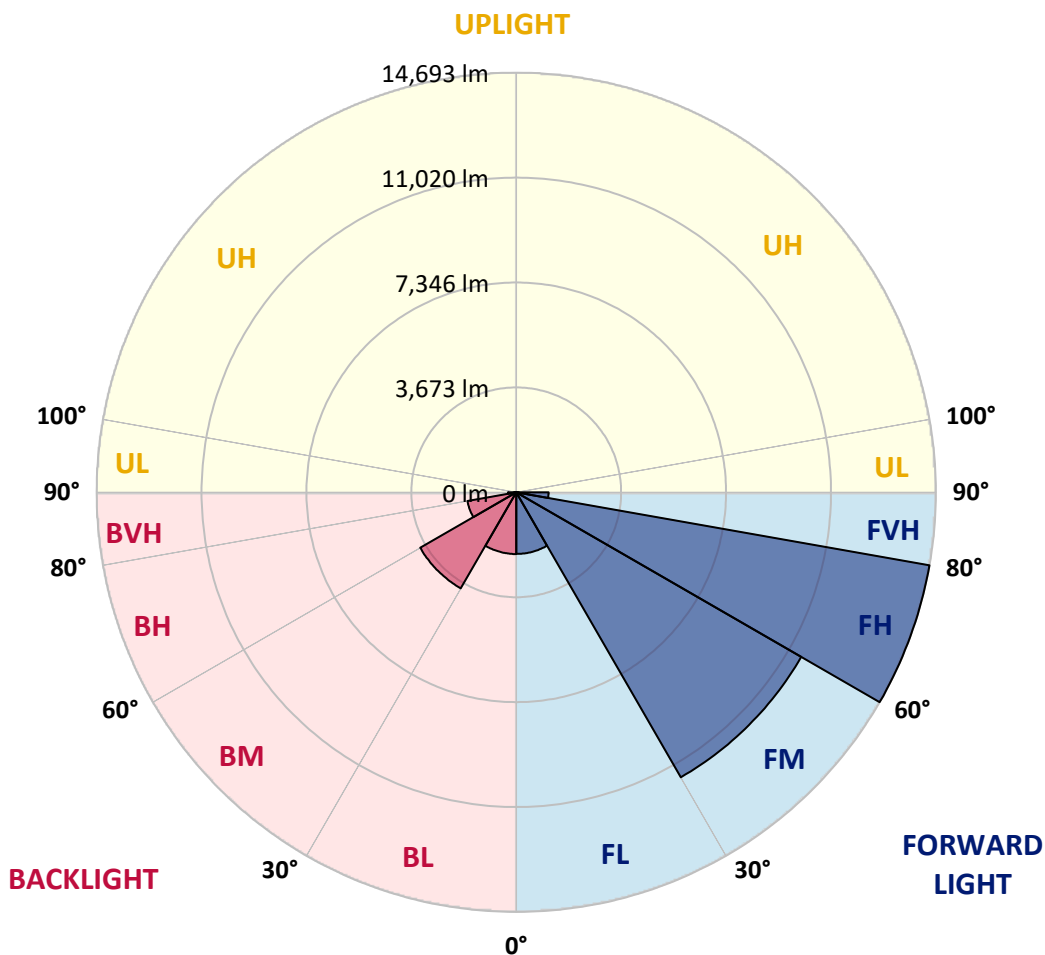


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2158.0	5.7			
FM (30°-60°)	11523.2	30.7			
FH (60°-80°)	14692.7	39.1			G5
FVH (80°-90°)	1131.9	3.0			G5
BL (0°-30°)	2161.0	5.8	B3/2500		
BM (30°-60°)	3883.0	10.3	B3/5000		
BH (60°-80°)	1734.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	289.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	5453.8	5433.0	5472.0	5477.2	5510.9	5523.9	5570.6	5643.3	5703.0	5771.8	5834.1
5°	4959.3	4945.0	4999.5	5038.5	5112.5	5143.6	5253.9	5408.4	5546.0	5701.7	5843.2
7.5°	4489.5	4481.7	4542.7	4630.9	4716.6	4759.4	4950.2	5174.8	5404.5	5656.3	5873.0
10°	4093.6	4091.0	4149.4	4236.4	4362.3	4410.3	4656.9	4952.8	5274.7	5621.2	5923.6
12.5°	3871.7	3880.7	3908.0	3980.7	4097.5	4145.5	4419.4	4767.2	5165.7	5609.6	5997.6
15°	3926.2	3940.4	3893.7	3891.1	3974.2	4011.8	4268.8	4634.8	5087.8	5629.0	6105.4
17.5°	4158.5	4161.1	4037.8	3959.9	4010.5	4030.0	4222.1	4559.5	5042.4	5673.1	6240.3
20°	4485.6	4479.1	4261.0	4131.2	4158.5	4163.7	4288.3	4560.8	5038.5	5749.7	6415.6
22.5°	4919.1	4871.0	4577.7	4401.2	4394.7	4386.9	4458.3	4656.9	5095.6	5874.3	6624.5
25°	5485.0	5439.5	5035.9	4794.5	4742.6	4723.1	4733.5	4862.0	5208.5	6008.0	6858.1
27.5°	6114.4	6035.3	5645.9	5304.5	5196.8	5169.6	5107.3	5151.4	5331.8	6136.5	7135.9
30°	6641.4	6598.6	6258.5	5853.6	5726.4	5687.4	5523.9	5475.9	5509.6	6311.7	7486.3
32.5°	6936.0	6907.5	6701.1	6374.0	6255.9	6201.4	5970.4	5874.3	5795.2	6588.2	7961.4
35°	7292.9	7274.8	7150.2	6912.6	6737.4	6680.3	6501.2	6401.3	6197.5	6968.5	8575.3
37.5°	7747.2	7727.7	7730.3	7538.2	7329.3	7276.1	7158.0	7052.8	6719.3	7468.2	9242.4
40°	8261.2	8223.5	8209.3	8200.2	8067.8	8037.9	7975.6	7832.9	7373.4	8065.2	9900.4
42.5°	9034.7	8901.0	8615.5	8723.2	8854.3	8838.7	8889.4	8684.3	8100.2	8771.3	10542.9
45°	9781.0	9561.7	9068.5	9091.8	9378.7	9465.6	9844.6	9699.3	8888.1	9544.8	11207.4
47.5°	10121.1	9954.9	9535.7	9537.0	9821.3	10001.7	10832.3	10728.5	9716.1	10423.5	12018.6
50°	10501.4	10335.2	9958.8	10100.3	10348.2	10540.3	11786.3	11733.1	10504.0	11385.2	12990.7
52.5°	10916.7	10635.0	10396.2	10649.3	10997.2	11220.4	12741.5	12596.2	11226.9	12353.5	14108.2
55°	10921.9	10845.3	11027.0	11212.6	11733.1	12006.9	13742.2	13358.1	11816.1	13304.8	15018.1
57.5°	11543.6	11419.0	11804.5	11890.1	12570.2	12879.1	14737.7	14021.3	12415.8	14034.3	15508.7
60°	12366.5	12260.0	12575.4	12801.3	13606.0	14018.7	15800.7	14702.7	12886.9	14584.6	15485.3
62.5°	13787.7	13667.0	13663.1	13979.8	15063.5	15543.7	16993.5	15371.1	13073.8	14693.6	14824.7
65°	15868.2	15676.1	15314.0	15464.6	17076.6	17555.5	18326.4	15855.2	12827.2	14109.5	13123.1
67.5°	17892.9	17886.4	17441.3	17750.2	19734.7	20118.8	19845.0	15903.2	12057.6	12075.7	10104.2
70°	19911.2	19937.1	19861.9	20936.5	23326.0	23725.7	21462.2	15258.2	10327.4	8720.6	6053.4
72.5°	21510.2	21503.7	21882.7	24653.7	27986.8	27897.2	22825.0	13303.5	7414.9	4707.5	2893.0
75°	20474.5	20248.6	21377.8	26494.2	30703.3	30265.9	21666.0	9280.0	3848.3	2142.8	1557.5
77.5°	13354.2	13568.3	15225.7	21886.6	26856.3	26324.1	15895.5	4329.8	1813.2	1405.6	1129.2
80°	4836.0	5061.8	7129.4	12397.6	18503.0	18416.0	7827.7	1779.4	1226.5	1061.7	822.9
82.5°	1663.9	1747.0	2812.6	5505.7	10446.8	10836.2	2944.9	1011.1	891.7	752.8	563.3
85°	652.8	747.6	1286.2	2649.0	5269.5	5308.4	1192.8	604.8	620.4	493.2	308.9
87.5°	247.9	301.1	615.2	1230.4	2406.3	2210.3	427.0	288.1	353.0	293.3	146.7
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°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	5882.1	5909.4	5966.5	6005.4	6046.9	6058.6	6063.8	6074.2	6084.6	6080.7	6082.0
5°	5918.5	5971.7	6063.8	6102.8	6120.9	6100.2	6059.9	6027.5	6004.1	5991.1	5987.2
7.5°	5978.2	6053.4	6152.1	6145.6	6104.1	6011.9	5908.1	5830.2	5765.3	5741.9	5729.0
10°	6057.3	6145.6	6214.4	6140.4	6019.7	5860.0	5704.3	5583.6	5486.3	5448.6	5442.1
12.5°	6158.6	6248.1	6261.1	6104.1	5904.2	5686.1	5474.6	5314.9	5169.6	5122.8	5112.5
15°	6289.7	6374.0	6293.5	6040.5	5761.4	5468.1	5194.2	4977.5	4824.3	4767.2	4746.4
17.5°	6427.2	6507.7	6300.0	5935.3	5574.5	5209.8	4865.9	4643.9	4468.7	4402.5	4394.7
20°	6592.1	6628.4	6272.8	5784.8	5317.5	4874.9	4512.8	4303.9	4210.4	4163.7	4158.5
22.5°	6795.8	6756.9	6210.5	5581.0	4991.7	4488.2	4193.5	4096.2	4072.8	4062.4	4066.3
25°	7011.3	6891.9	6118.3	5314.9	4580.3	4101.4	3959.9	3987.2	4018.3	4014.4	4014.4
27.5°	7248.8	7029.5	5976.9	4961.9	4124.7	3784.7	3801.6	3901.5	3948.2	3946.9	3945.6
30°	7553.8	7185.2	5796.5	4537.5	3699.0	3561.5	3664.0	3786.0	3849.6	3847.0	3848.3
32.5°	7928.9	7356.5	5551.1	4063.7	3391.4	3396.6	3514.7	3635.4	3709.4	3702.9	3704.2
35°	8367.6	7548.6	5218.9	3596.5	3187.7	3265.5	3359.0	3443.3	3513.4	3504.3	3495.3
37.5°	8845.2	7736.8	4777.6	3178.6	3021.5	3143.5	3221.4	3235.7	3268.1	3244.8	3227.9
40°	9299.5	7880.9	4209.1	2835.9	2854.1	3039.7	3090.3	3033.2	2974.8	2967.0	2943.7
42.5°	9695.4	7928.9	3634.1	2562.1	2677.6	2930.7	2961.8	2842.4	2737.3	2688.0	2667.2
45°	10113.3	7945.8	3098.1	2332.3	2507.6	2833.3	2867.1	2707.4	2559.5	2453.0	2418.0
47.5°	10659.7	8067.8	2681.5	2162.3	2377.8	2768.4	2816.5	2599.7	2407.6	2255.8	2223.3
50°	11374.9	8309.2	2342.7	2032.5	2293.4	2725.6	2780.1	2494.6	2283.0	2100.0	2067.6
52.5°	12169.2	8531.1	2068.9	1927.4	2211.6	2650.3	2733.4	2419.3	2166.2	1955.9	1920.9
55°	12724.7	8361.1	1848.2	1818.4	2105.2	2542.6	2668.5	2355.7	1998.8	1815.8	1784.6
57.5°	12831.1	7779.7	1680.8	1705.4	1976.7	2407.6	2568.6	2214.2	1907.9	1754.8	1722.3
60°	12540.4	6969.8	1556.2	1601.6	1839.1	2237.6	2381.7	2114.3	1821.0	1689.9	1662.6
62.5°	11809.7	6140.4	1464.0	1508.2	1710.6	2065.0	2264.8	2009.2	1732.7	1615.9	1588.6
65°	10333.9	5155.3	1375.8	1425.1	1591.2	1915.7	2159.7	1911.8	1645.7	1556.2	1530.2
67.5°	7800.4	3861.3	1292.7	1336.8	1484.8	1785.9	2045.5	1815.8	1561.4	1504.3	1473.1
70°	4593.3	2418.0	1198.0	1244.7	1373.2	1650.9	1923.5	1710.6	1456.3	1430.3	1390.1
72.5°	2137.7	1455.0	1090.2	1135.7	1233.0	1470.5	1766.5	1573.1	1331.7	1274.5	1220.0
75°	1275.8	1064.3	963.0	1003.3	1072.1	1278.4	1569.2	1432.9	1213.5	1138.3	1081.2
77.5°	954.0	813.8	822.9	865.7	921.5	1118.8	1390.1	1322.6	1122.7	1064.3	1025.3
80°	686.6	617.8	671.0	717.7	776.1	1017.6	1331.7	1222.6	1015.0	937.1	900.7
82.5°	458.2	443.9	504.9	552.9	610.0	890.4	1251.2	1070.8	867.0	768.4	687.9
85°	253.1	267.4	340.1	360.8	410.1	626.9	1025.3	860.5	652.8	525.7	502.3
87.5°	105.1	123.3	183.0	176.5	218.0	373.8	674.9	519.2	415.3	310.2	241.4
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)