

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: P319012

Luminaire Tested: **GAN-SA8C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51264 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

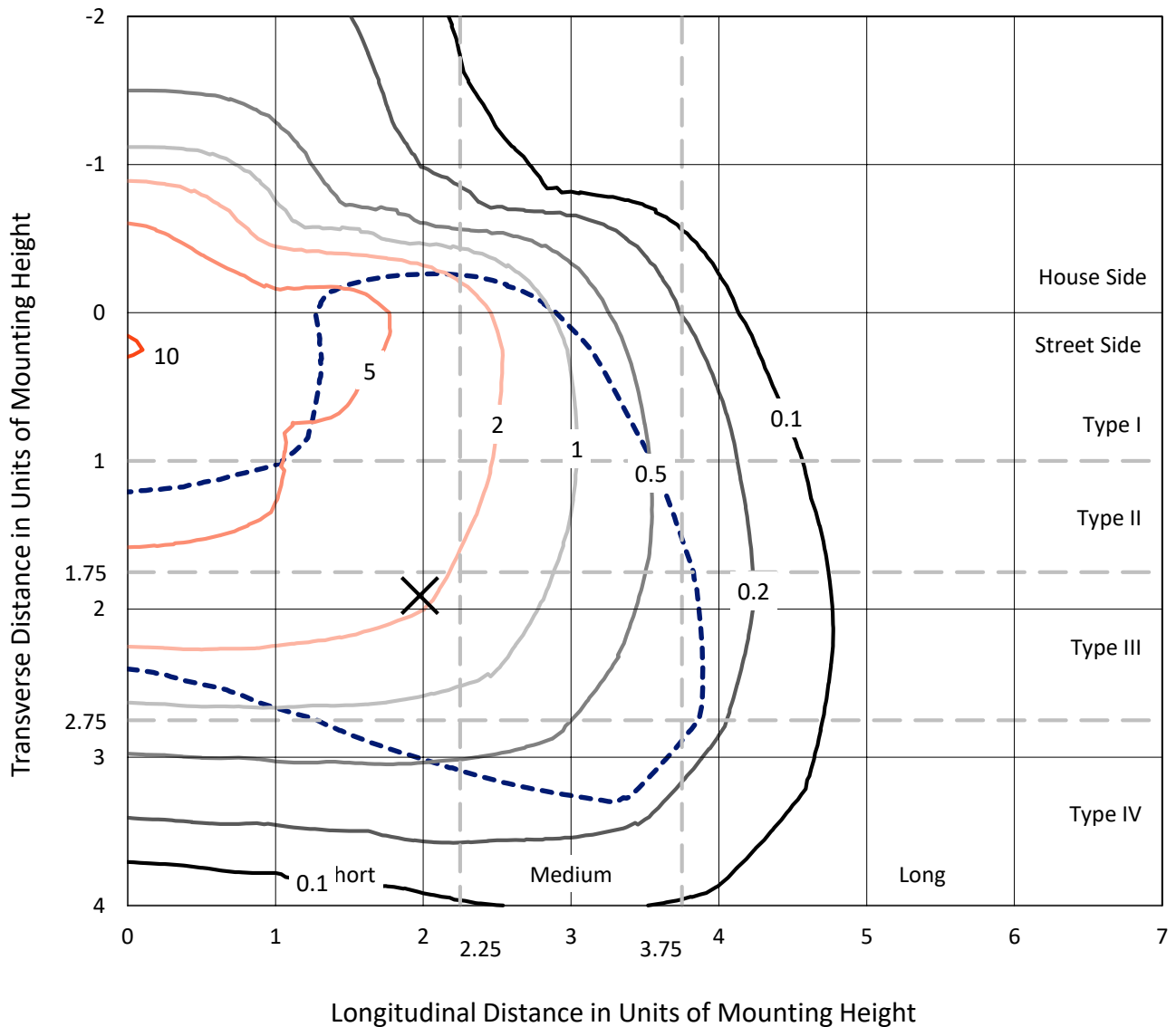
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

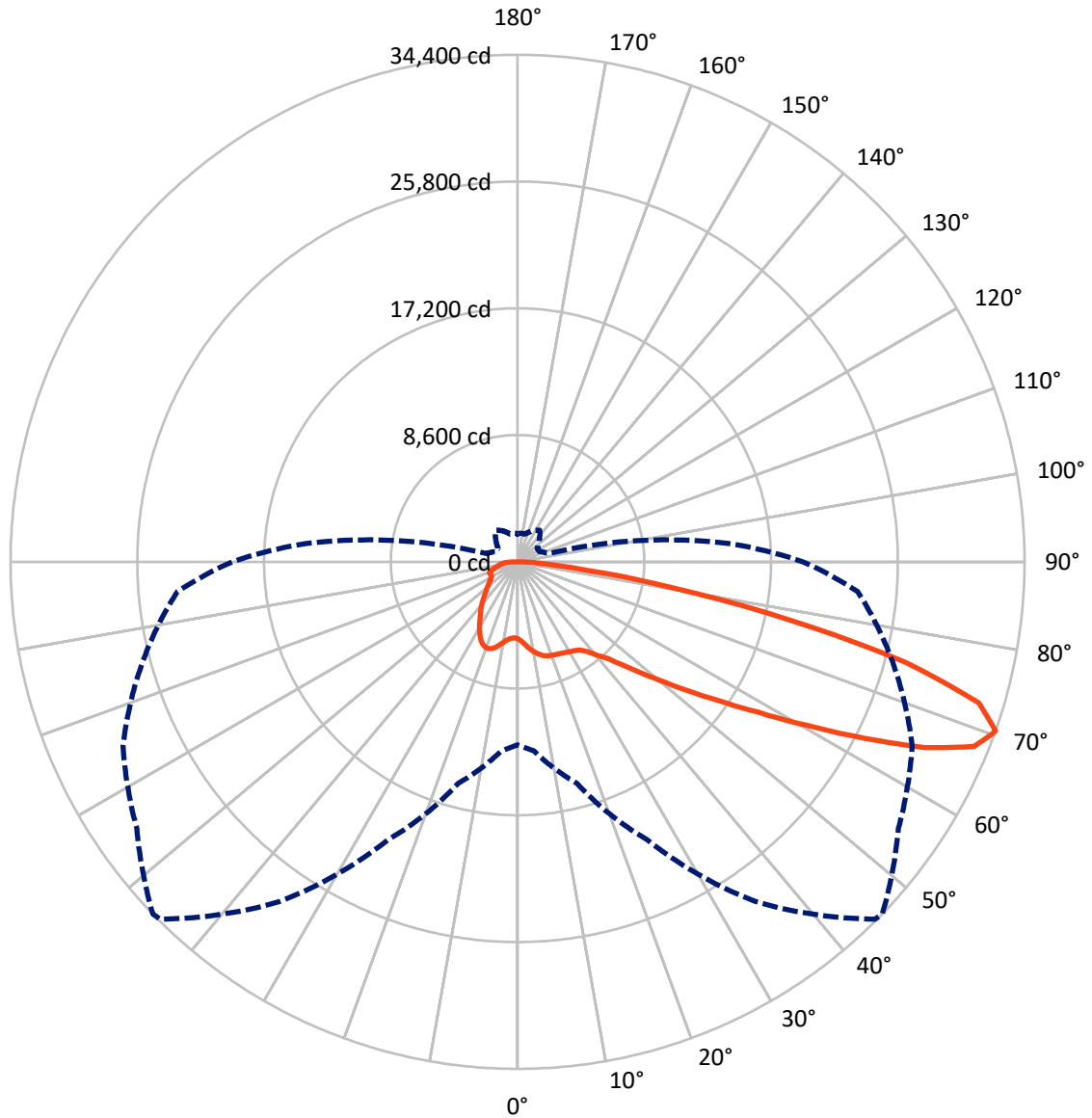
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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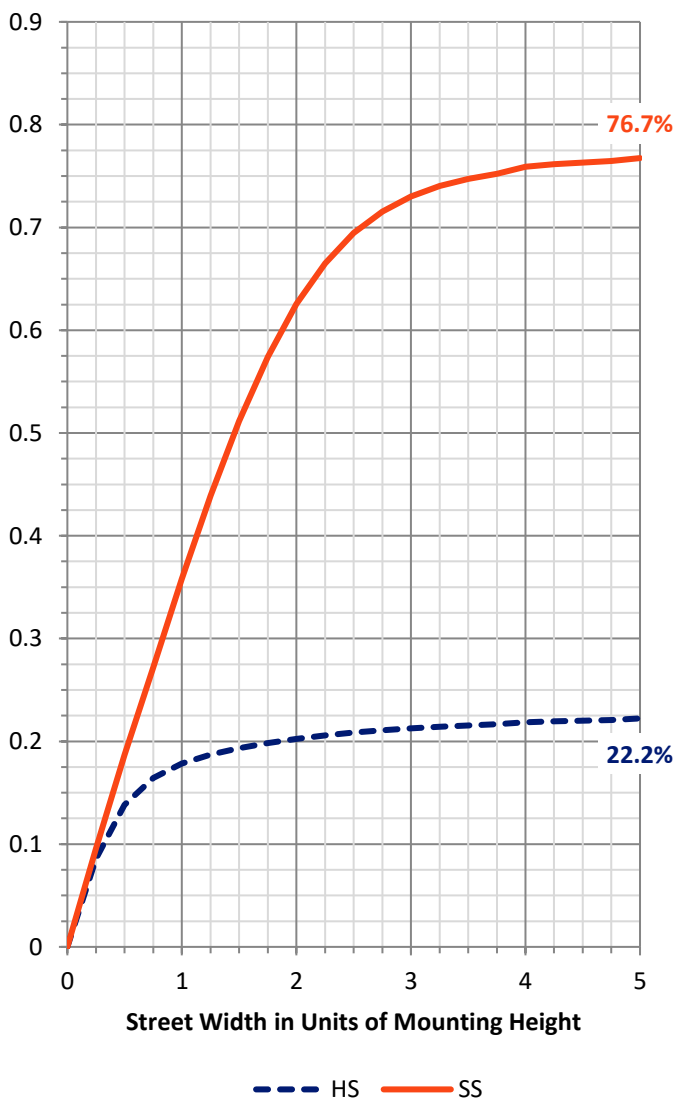
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11749.6	0.0	11749.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39514.4	0.0	39514.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	51264.0	0.0	51264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.4	1.0
10°-20°	1773.9	3.5
20°-30°	2957.7	5.8
30°-40°	4197.2	8.2
40°-50°	6173.9	12.0
50°-60°	10455.5	20.4
60°-70°	14841.3	29.0
70°-80°	9016.2	17.6
80°-90°	1315.8	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°	51264.0	100.0
0°-180°	51264.0	100.0

Coefficient of Utilization

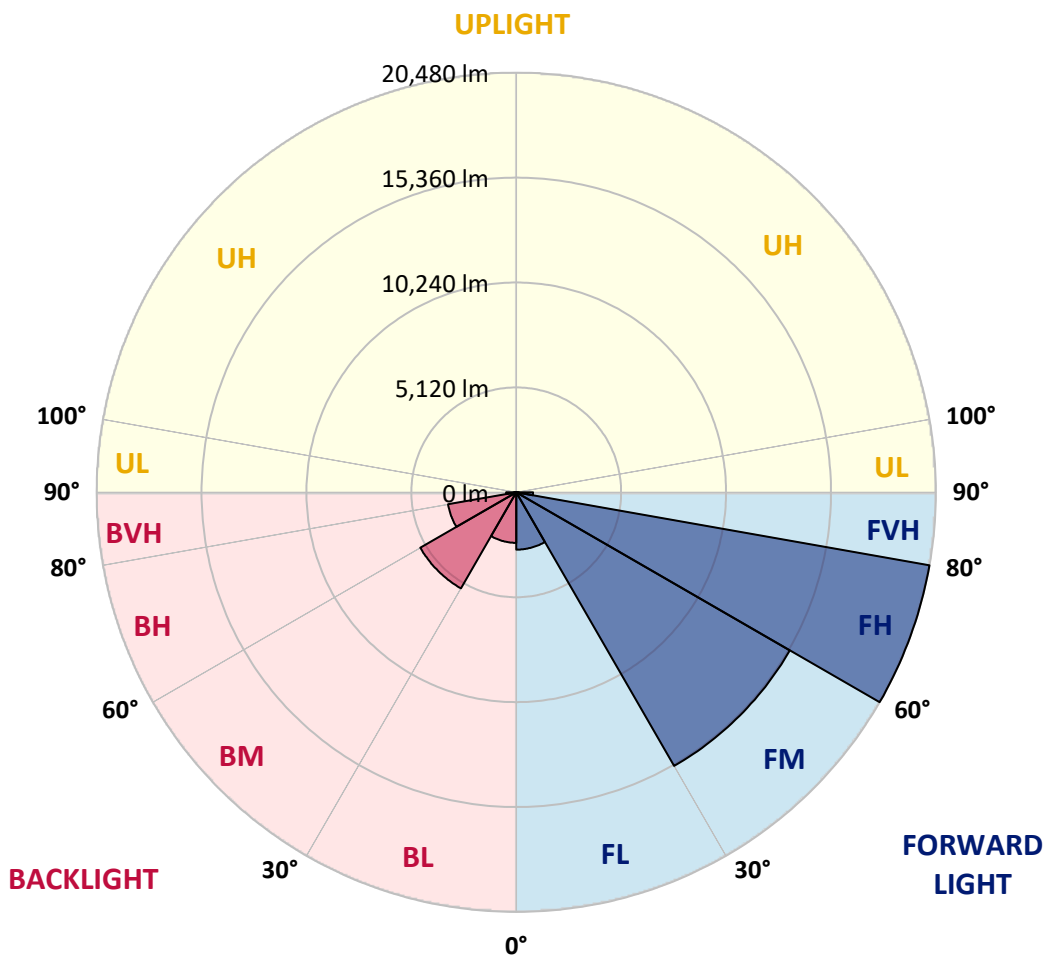


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2797.2	5.5			
FM (30°-60°)	15417.9	30.1			
FH (60°-80°)	20479.7	39.9			G5
FVH (80°-90°)	819.6	1.6			G5
BL (0°-30°)	2466.9	4.8	B3/2500		
BM (30°-60°)	5408.6	10.6	B4/8500		
BH (60°-80°)	3377.9	6.6	B4/5000		G4/5000
BVH (80°-90°)	496.2	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8
2.5°	5484.2	5487.7	5494.7	5477.2	5428.1	5414.0	5408.8	5357.9	5324.6	5275.4	5233.3
5°	5922.8	5926.3	5915.8	5866.7	5757.9	5677.2	5670.2	5554.4	5449.1	5336.8	5252.6
7.5°	6380.7	6386.0	6352.6	6259.6	6107.0	5966.7	5957.9	5800.0	5640.3	5470.2	5343.9
10°	6786.0	6764.9	6710.5	6580.7	6400.0	6228.1	6221.0	6056.1	5871.9	5666.7	5498.2
12.5°	7056.1	7038.6	6968.4	6810.5	6612.3	6454.4	6440.3	6287.7	6108.8	5884.2	5682.4
15°	7205.3	7217.5	7122.8	6943.8	6750.9	6617.5	6605.3	6496.5	6336.8	6110.5	5878.9
17.5°	7224.5	7235.1	7143.8	6966.7	6808.8	6717.5	6712.3	6640.3	6524.6	6307.0	6064.9
20°	7112.3	7119.3	7043.8	6898.2	6794.7	6766.7	6764.9	6733.3	6647.4	6454.4	6219.3
22.5°	6949.1	6954.4	6900.0	6794.7	6759.6	6803.5	6815.8	6803.5	6742.1	6561.4	6340.3
25°	6908.8	6905.3	6849.1	6742.1	6771.9	6864.9	6880.7	6886.0	6843.8	6686.0	6494.7
27.5°	7103.5	7091.2	6984.2	6812.3	6831.6	6943.8	6964.9	7015.8	6989.5	6850.9	6670.2
30°	7666.7	7645.6	7426.3	7078.9	6984.2	7042.1	7068.4	7149.1	7154.4	7038.6	6903.5
32.5°	8617.5	8591.2	8198.2	7577.2	7242.1	7142.1	7166.7	7287.7	7352.6	7263.1	7117.5
35°	9819.3	9789.5	9273.7	8424.5	7673.7	7333.3	7350.9	7447.4	7577.2	7450.9	7257.9
37.5°	11071.9	11000.0	10503.5	9421.0	8359.6	7742.1	7742.1	7754.4	7815.8	7552.6	7422.8
40°	12317.5	12245.6	11796.5	10593.0	9247.4	8386.0	8345.6	8073.7	8024.5	7798.2	7754.4
42.5°	13475.4	13454.4	13189.5	11917.5	10289.5	9019.3	8963.1	8501.7	8512.3	8371.9	8373.7
45°	14707.0	14707.0	14491.2	13254.4	11503.5	10036.8	9980.7	9301.7	9407.0	9342.1	9498.2
47.5°	15712.3	15743.8	15714.0	14647.3	12915.8	11329.8	11228.1	10410.5	10705.2	10928.1	11382.4
50°	16738.6	16787.7	16793.0	16175.4	14622.8	12866.6	12750.9	11882.4	12540.3	13178.9	14071.9
52.5°	18228.0	18338.6	17898.2	17700.0	16714.0	14691.2	14577.2	13775.4	14873.7	15770.1	17308.7
55°	19608.7	19512.2	19198.2	19321.0	18952.6	16768.4	16682.4	15978.9	17473.7	18638.6	20636.8
57.5°	20356.1	20349.1	20664.9	21191.2	21366.6	19329.8	19257.9	18573.7	20405.2	21280.7	23761.4
60°	21233.3	21245.6	22028.0	23222.8	23945.6	22519.3	22487.7	21968.4	23252.6	23747.3	26212.2
62.5°	21356.1	21577.2	22924.5	24980.7	26359.6	26245.6	26315.7	25026.3	25800.0	25715.7	28042.1
65°	19943.8	20235.1	22673.6	25512.2	28759.6	30321.0	30385.9	28101.7	27808.7	27398.2	28696.4
67.5°	17049.1	17480.7	20129.8	24356.1	29550.8	33333.3	33424.5	30485.9	29475.4	27968.4	27121.0
70°	12407.0	12885.9	15552.6	20801.7	28140.3	34296.4	34399.9	31540.3	29538.5	26345.6	23152.6
72.5°	7494.7	7870.2	10068.4	15314.0	23750.8	32542.1	32726.3	30203.5	26968.4	22315.8	17096.5
75°	3291.2	3536.8	4868.4	8824.5	17003.5	26924.5	27154.3	25852.6	21912.2	16217.5	10105.2
77.5°	1401.8	1471.9	1996.5	3833.3	9612.3	18398.2	18714.0	18889.4	14866.6	8824.5	4270.2
80°	873.7	901.8	1129.8	1735.1	4498.2	10333.3	10673.7	11114.0	7382.4	3243.9	1491.2
82.5°	531.6	563.2	750.9	1049.1	2342.1	4684.2	4847.4	5157.9	2864.9	1401.8	771.9
85°	319.3	342.1	459.6	663.2	1333.3	1842.1	1840.3	2035.1	1349.1	901.8	407.0
87.5°	152.6	170.2	245.6	343.9	671.9	691.2	647.4	733.3	819.3	591.2	205.3
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°	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8	5222.8
2.5°	5219.3	5212.3	5189.5	5171.9	5168.4	5157.9	5149.1	5154.4	5161.4	5163.1	5163.1
5°	5217.5	5198.2	5168.4	5156.1	5171.9	5193.0	5219.3	5254.4	5275.4	5291.2	5301.7
7.5°	5301.7	5264.9	5231.6	5224.6	5256.1	5312.3	5371.9	5445.6	5496.5	5531.6	5538.6
10°	5442.1	5396.5	5363.1	5370.2	5426.3	5507.0	5591.2	5686.0	5763.1	5810.5	5814.0
12.5°	5603.5	5559.6	5528.1	5557.9	5650.9	5749.1	5836.8	5919.3	5989.5	6036.8	6036.8
15°	5789.5	5757.9	5721.0	5789.5	5915.8	6003.5	6040.3	6080.7	6119.3	6154.4	6147.4
17.5°	5968.4	5938.6	5919.3	6000.0	6131.6	6171.9	6147.4	6117.5	6117.5	6136.8	6140.3
20°	6122.8	6096.5	6108.8	6187.7	6256.1	6214.0	6122.8	6028.1	5989.5	6000.0	6010.5
22.5°	6257.9	6245.6	6282.4	6319.3	6270.2	6122.8	5954.4	5826.3	5778.9	5775.4	5778.9
25°	6415.8	6414.0	6459.6	6393.0	6175.4	5903.5	5677.2	5552.6	5526.3	5547.4	5582.4
27.5°	6612.3	6631.6	6654.4	6410.5	5982.4	5571.9	5342.1	5256.1	5282.4	5333.3	5366.7
30°	6863.1	6915.8	6866.7	6366.7	5705.3	5193.0	4973.7	4949.1	5021.0	5093.0	5128.1
32.5°	7107.0	7189.5	7070.2	6252.6	5347.4	4791.2	4621.0	4614.0	4701.7	4771.9	4821.0
35°	7303.5	7466.7	7222.8	6026.3	4933.3	4421.0	4296.5	4249.1	4280.7	4363.2	4419.3
37.5°	7559.6	7831.6	7328.1	5680.7	4484.2	4115.8	3970.2	3861.4	3833.3	3866.7	3894.7
40°	8028.1	8387.7	7377.2	5198.2	4045.6	3810.5	3663.2	3503.5	3393.0	3312.3	3314.0
42.5°	8793.0	9112.3	7345.6	4612.3	3640.3	3512.3	3345.6	3161.4	2982.5	2800.0	2786.0
45°	10035.1	10189.5	7250.9	3991.2	3284.2	3200.0	3043.9	2859.6	2621.0	2414.0	2394.7
47.5°	12022.8	11680.7	7103.5	3449.1	2970.2	2935.1	2791.2	2578.9	2326.3	2159.6	2145.6
50°	14733.3	13833.3	7031.6	3017.5	2693.0	2703.5	2586.0	2361.4	2122.8	2000.0	1986.0
52.5°	17975.4	16340.3	7170.2	2684.2	2470.2	2507.0	2419.3	2208.8	2008.8	1912.3	1898.2
55°	21338.6	18936.8	7319.3	2442.1	2259.6	2331.6	2301.8	2128.1	1947.4	1857.9	1845.6
57.5°	24217.5	20875.4	7021.0	2245.6	2071.9	2184.2	2210.5	2077.2	1915.8	1835.1	1821.0
60°	26029.8	21656.1	6238.6	2061.4	1922.8	2066.7	2157.9	2063.2	1928.1	1921.0	1910.5
62.5°	26889.4	21587.7	5064.9	1915.8	1829.8	2015.8	2196.5	2142.1	2068.4	2131.6	2136.8
65°	26503.5	20556.1	3771.9	1819.3	1763.2	2035.1	2312.3	2291.2	2108.8	2171.9	2180.7
67.5°	23963.1	18094.7	2793.0	1735.1	1689.5	2089.5	2522.8	2340.3	2029.8	2075.4	2047.4
70°	19368.4	14345.6	2154.4	1640.3	1614.0	2082.5	2617.5	2310.5	1943.9	1954.4	1878.9
72.5°	13356.1	9782.4	1752.6	1552.6	1505.3	1898.2	2550.9	2236.8	1871.9	1791.2	1691.2
75°	7263.1	5250.9	1489.5	1461.4	1314.0	1666.7	2428.1	2184.2	1807.0	1700.0	1643.9
77.5°	2857.9	2178.9	1293.0	1336.8	1149.1	1471.9	2291.2	2084.2	1717.5	1577.2	1549.1
80°	1166.7	1112.3	1071.9	1156.1	987.7	1287.7	2126.3	1966.7	1610.5	1463.2	1407.0
82.5°	661.4	691.2	833.3	912.3	801.8	1186.0	2047.4	1871.9	1482.5	1310.5	1243.9
85°	338.6	405.3	580.7	654.4	589.5	1008.8	1886.0	1638.6	1189.5	1003.5	1008.8
87.5°	163.2	226.3	366.7	410.5	382.5	729.8	1408.8	1187.7	926.3	733.3	710.5
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)