

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: P383543

Luminaire Tested: **GAN-SA8B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42673.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

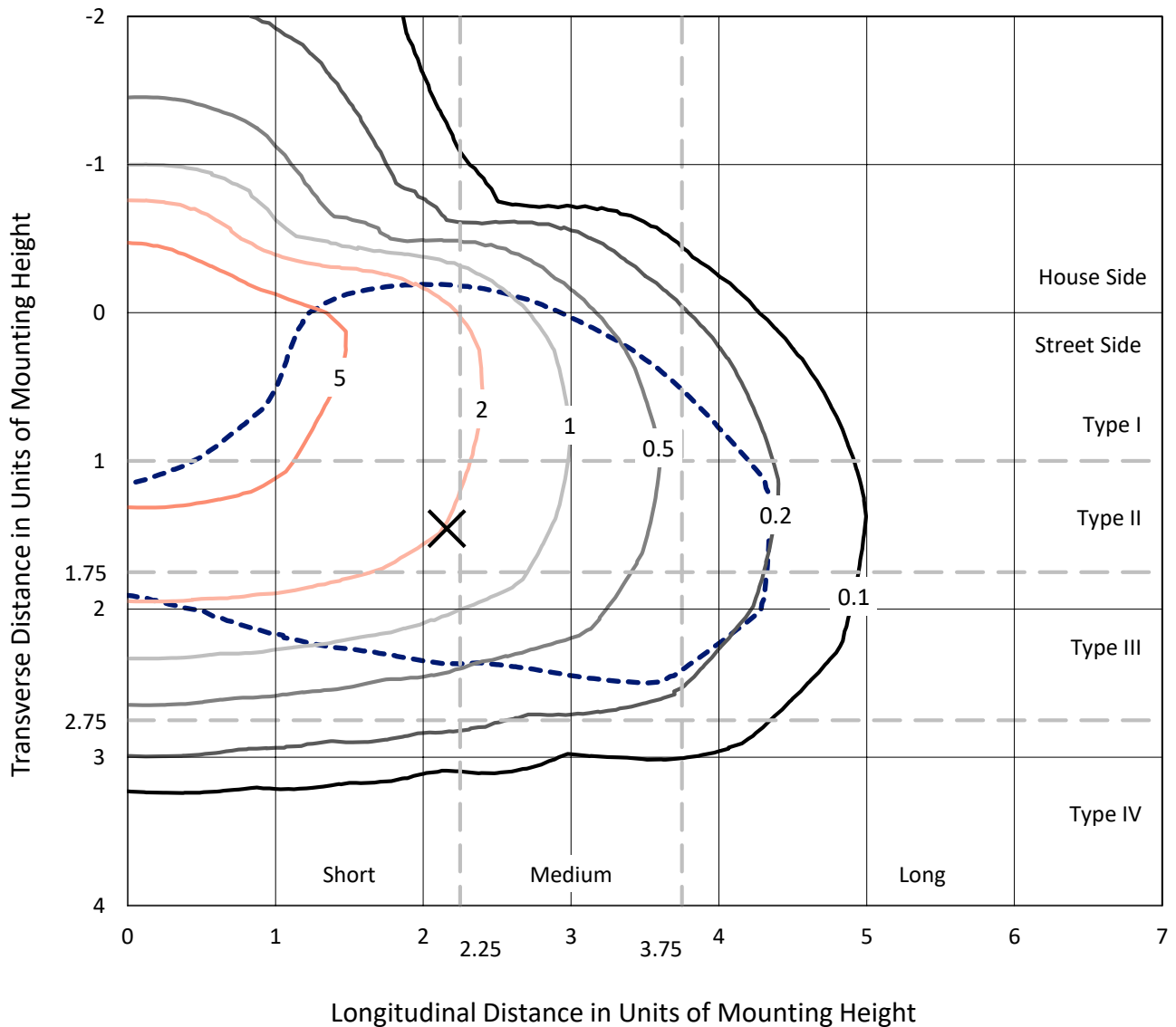
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

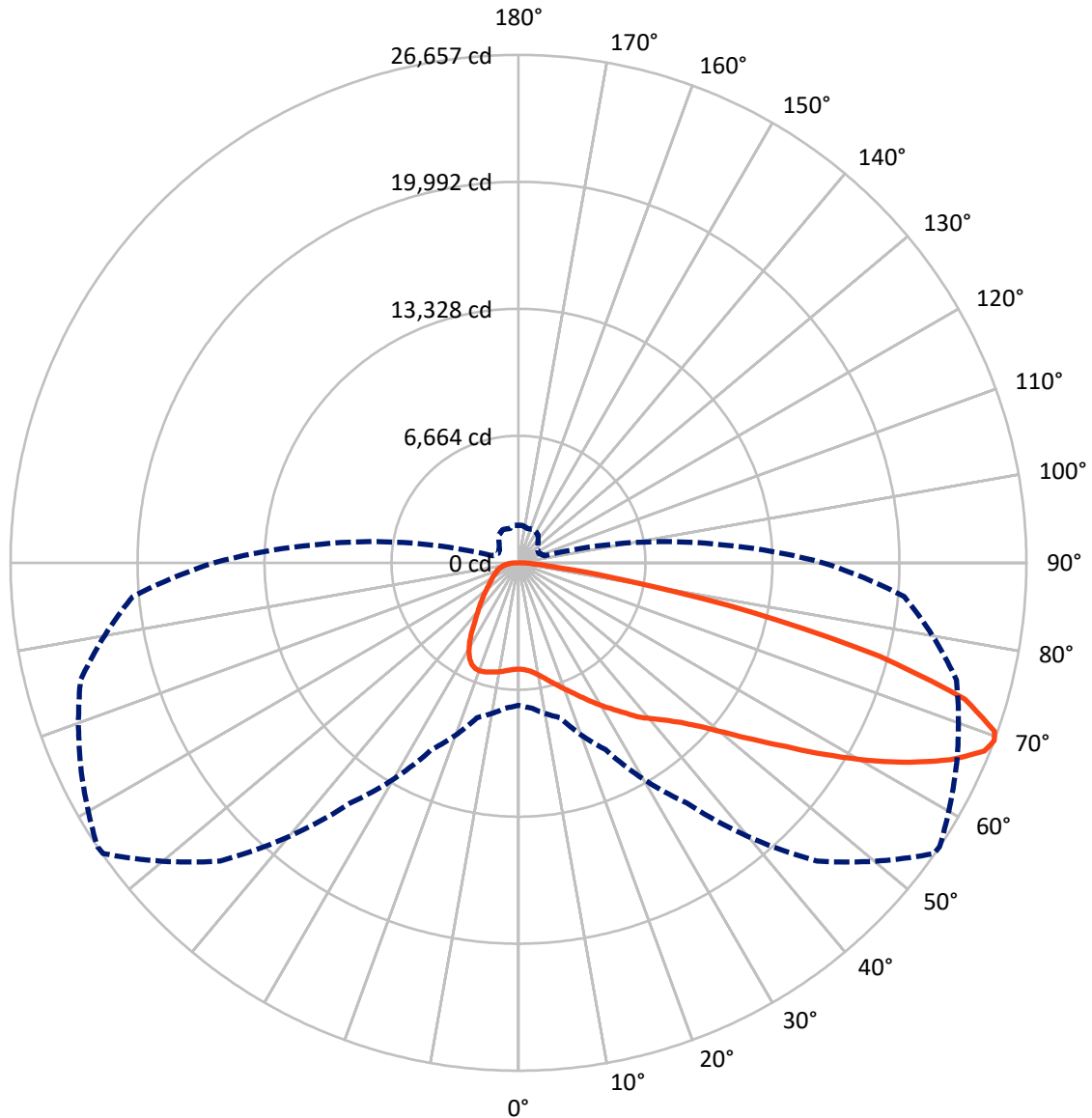
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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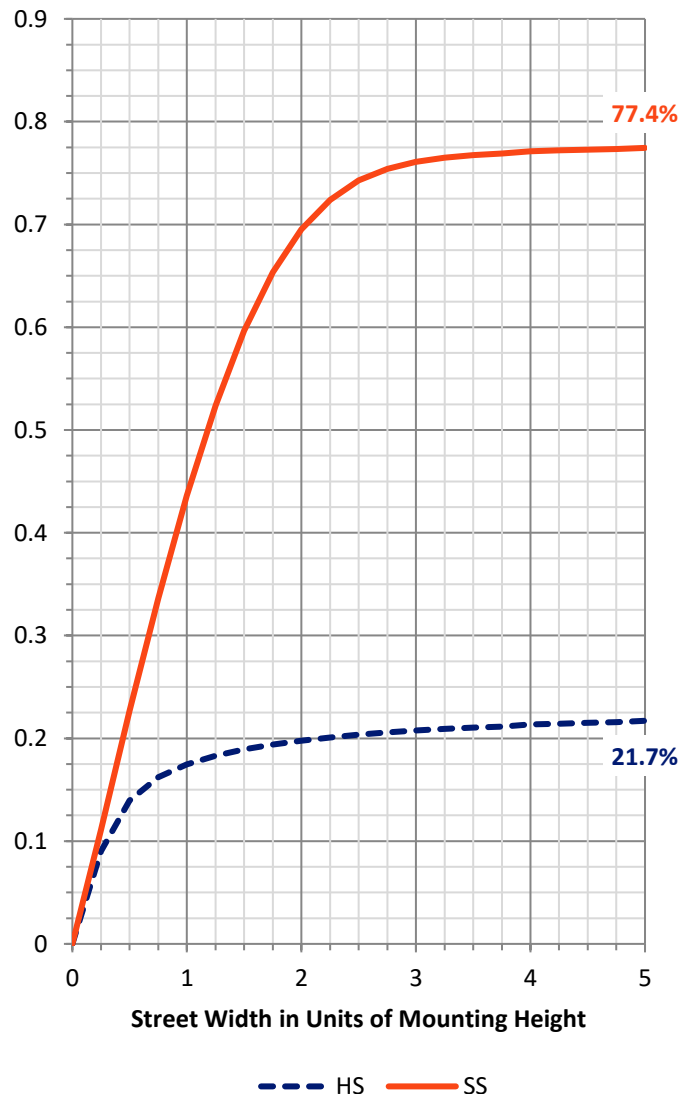
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9503.3	0.0	9503.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33170.0	0.0	33170.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	42673.3	0.0	42673.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	1.3
10°-20°	1761.9	4.1
20°-30°	3075.7	7.2
30°-40°	4418.1	10.4
40°-50°	6114.4	14.3
50°-60°	8958.5	21.0
60°-70°	10922.0	25.6
70°-80°	6038.4	14.2
80°-90°	836.3	2.0
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°	42673.3	100.0
0°-180°	42673.3	100.0

Coefficient of Utilization



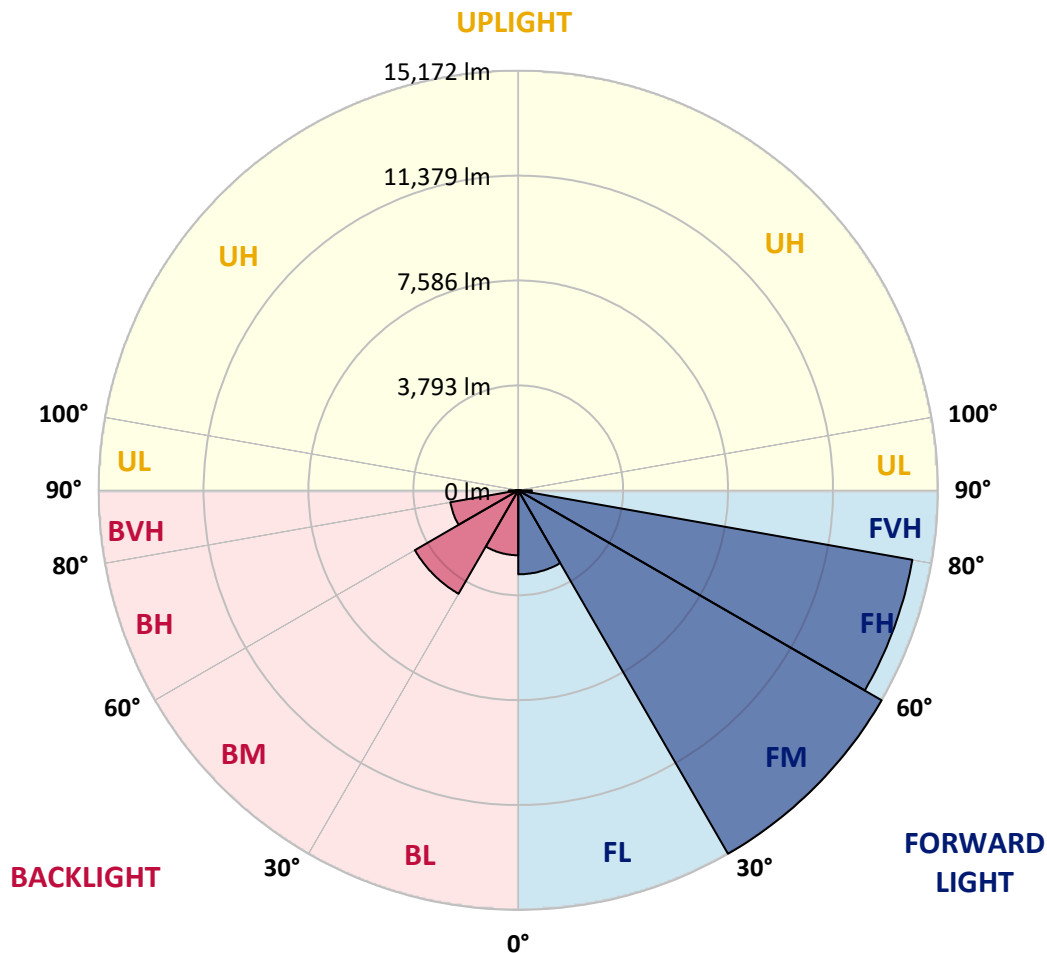
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.1	7.1			
FM (30°-60°)	15171.9	35.6			
FH (60°-80°)	14468.4	33.9			G5
FVH (80°-90°)	492.6	1.2			G3/500
BL (0°-30°)	2348.5	5.5	B3/2500		
BM (30°-60°)	4319.0	10.1	B3/5000		
BH (60°-80°)	2492.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	343.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9
2.5°	5614.2	5620.0	5615.6	5627.4	5614.2	5623.0	5615.6	5615.6	5611.3	5598.0	5583.3
5°	5702.4	5714.1	5706.8	5718.6	5702.4	5705.4	5692.0	5692.0	5678.8	5651.0	5621.5
7.5°	5840.5	5853.8	5847.9	5859.7	5837.6	5837.6	5819.9	5818.5	5792.1	5746.4	5712.6
10°	6005.2	6022.8	6017.0	6034.6	6017.0	6022.8	6005.2	6005.2	5969.9	5905.3	5862.6
12.5°	6244.8	6266.9	6250.7	6249.2	6241.9	6253.7	6238.9	6236.0	6203.6	6115.4	6056.6
15°	6565.3	6588.8	6555.0	6552.0	6510.9	6506.5	6506.5	6502.1	6481.5	6375.7	6278.6
17.5°	6934.3	6941.6	6912.3	6865.2	6812.3	6778.5	6774.0	6785.8	6785.8	6662.3	6508.0
20°	7295.9	7309.1	7285.6	7232.7	7165.1	7115.1	7079.9	7103.3	7101.8	6954.8	6735.8
22.5°	7689.9	7720.8	7685.5	7617.8	7538.5	7482.7	7420.9	7441.5	7443.0	7262.1	6959.3
25°	8200.0	8172.1	8150.0	8054.4	7941.3	7884.0	7826.6	7847.2	7841.3	7592.9	7190.1
27.5°	8651.3	8657.2	8627.8	8526.4	8395.6	8269.1	8266.2	8279.4	8257.3	7936.9	7407.7
30°	9176.1	9179.1	9137.9	9046.7	8904.2	8741.0	8702.8	8724.8	8677.7	8263.2	7637.0
32.5°	9698.0	9712.7	9667.1	9556.8	9442.2	9243.7	9167.3	9182.0	9064.4	8596.9	7873.6
35°	10155.2	10175.8	10161.0	10087.5	9962.6	9792.1	9701.0	9692.1	9546.6	9005.6	8186.8
37.5°	10621.2	10640.3	10624.1	10562.4	10512.4	10331.6	10283.1	10283.1	10030.3	9423.1	8585.1
40°	11100.4	11129.9	11110.8	11025.4	10982.9	10900.5	10784.3	10756.5	10483.0	9924.4	9234.9
42.5°	11545.9	11584.1	11660.6	11610.5	11523.8	11535.5	11301.8	11287.1	11087.2	10665.3	10050.8
45°	12178.0	12233.8	12363.2	12325.0	12307.3	12242.7	11964.8	11951.6	11875.2	11662.0	11063.7
47.5°	12867.5	12943.9	13177.7	13185.0	13374.6	13252.6	12874.8	12829.3	12846.9	12855.7	12300.0
50°	13502.5	13586.3	13970.0	14150.9	14597.7	14624.2	14020.0	13978.8	14047.9	14250.8	13740.7
52.5°	14009.7	14115.6	14594.7	15153.4	15919.3	16136.9	15429.8	15398.9	15450.4	15800.3	15369.5
55°	14381.6	14496.3	15018.1	16035.5	17258.5	17642.2	17052.7	17023.3	17055.7	17501.1	17140.9
57.5°	14468.3	14496.3	15253.3	16629.3	18389.0	19310.7	19038.8	18980.0	18821.2	19209.3	19096.1
60°	14061.2	14172.8	15059.3	16838.1	19263.7	20955.7	21114.6	21041.0	20595.6	20913.2	20822.0
62.5°	13235.0	13434.9	14334.6	16520.5	19606.2	22299.4	23150.5	23062.3	22295.0	22500.8	22062.7
65°	11885.4	11970.8	12916.0	15425.4	19171.1	23159.4	24966.0	24922.0	23956.1	23634.2	22292.0
67.5°	9471.6	9631.8	10434.5	13136.5	17390.9	23057.9	26370.0	26365.6	25041.0	24054.6	21479.1
69°	7482.7	7648.8	8413.2	10821.1	15388.6	22130.3	26605.2	26656.6	25346.9	23798.8	20317.7
70°	5965.5	6158.1	6682.9	9114.4	13611.3	20907.2	26409.7	26502.2	25288.0	23376.9	19246.1
72.5°	2538.8	2694.6	3068.1	4698.4	8295.5	15612.1	24147.2	24497.1	23925.3	21395.3	15906.1
75°	1108.4	1157.0	1326.0	1915.4	3682.5	8496.9	18916.8	19563.6	20457.3	18084.7	11848.7
77.5°	811.5	832.1	924.7	1124.6	1652.4	3209.2	12164.8	12541.1	14753.6	13160.0	7268.0
80°	627.7	642.4	714.4	826.2	1079.0	1298.1	5548.0	5871.5	8295.5	6759.3	3026.9
82.5°	499.8	510.1	560.1	608.6	745.3	786.5	1841.9	2043.3	3062.2	1867.0	801.2
85°	464.6	476.3	493.9	444.0	477.8	461.6	796.8	833.5	924.7	733.6	335.2
87.5°	210.3	248.4	489.5	345.5	254.3	202.9	326.3	341.0	383.7	385.2	148.5
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°	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9	5578.9
2.5°	5592.1	5587.7	5595.1	5577.5	5599.4	5598.0	5590.7	5593.6	5608.3	5606.8	5608.3
5°	5625.9	5623.0	5631.8	5618.5	5645.1	5653.8	5655.3	5668.6	5684.8	5689.1	5689.1
7.5°	5711.2	5711.2	5715.6	5698.0	5715.6	5714.1	5706.8	5720.0	5736.2	5737.7	5736.2
10°	5858.2	5859.7	5852.4	5806.7	5792.1	5752.4	5715.6	5717.1	5737.7	5753.8	5758.3
12.5°	6043.4	6037.5	6005.2	5921.4	5859.7	5778.9	5740.6	5739.1	5759.7	5772.9	5777.4
15°	6255.2	6238.9	6155.1	6018.4	5909.6	5830.3	5768.5	5753.8	5742.1	5727.3	5728.8
17.5°	6455.1	6418.3	6278.6	6089.0	5974.3	5868.5	5749.4	5653.8	5587.7	5549.5	5537.8
20°	6658.0	6585.9	6384.5	6155.1	6009.6	5817.0	5587.7	5393.7	5273.1	5217.2	5207.0
22.5°	6843.1	6727.0	6483.0	6224.2	5981.7	5643.6	5283.4	5001.1	4833.5	4758.6	4764.5
25°	7024.0	6862.2	6585.9	6272.8	5840.5	5337.8	4860.1	4513.1	4319.0	4235.3	4232.3
27.5°	7182.7	6999.0	6697.6	6233.1	5577.5	4902.6	4358.7	4020.7	3858.9	3786.9	3775.1
30°	7365.0	7171.0	6846.0	6081.6	5192.3	4399.9	3869.2	3631.1	3516.4	3444.4	3431.2
32.5°	7587.0	7404.7	6968.1	5806.7	4699.8	3875.1	3487.0	3320.9	3216.5	3135.7	3121.0
35°	7910.4	7713.4	6999.0	5412.8	4158.8	3460.5	3206.2	3035.6	2894.6	2790.2	2779.9
37.5°	8316.1	8100.1	6928.4	4902.6	3634.0	3191.5	2972.5	2762.2	2578.5	2431.5	2408.0
40°	8901.2	8574.9	6732.9	4314.6	3247.4	2984.2	2744.6	2505.0	2277.2	2105.1	2071.3
42.5°	9603.9	9132.1	6433.0	3729.5	2963.6	2774.0	2518.3	2221.3	2003.7	1881.7	1864.0
45°	10497.7	9711.2	6017.0	3217.9	2684.3	2563.8	2274.2	2000.8	1865.5	1775.8	1761.1
47.5°	11517.9	10361.0	5580.3	2801.9	2447.6	2366.8	2078.7	1902.2	1794.9	1724.4	1711.2
50°	12771.9	11094.5	5117.3	2460.9	2209.5	2130.1	1986.1	1847.9	1762.6	1708.2	1695.0
52.5°	14186.1	11922.2	4783.6	2191.8	2012.5	1955.2	1937.5	1818.5	1749.4	1708.2	1695.0
55°	15709.1	12764.5	4423.5	1965.5	1841.9	1858.2	1905.2	1821.4	1774.4	1724.4	1705.3
57.5°	17233.5	13634.8	4022.0	1774.4	1706.8	1786.1	1883.1	1827.3	1787.6	1739.1	1721.4
60°	18439.0	14186.1	3400.2	1614.1	1599.5	1706.8	1830.2	1783.2	1731.7	1733.2	1730.3
62.5°	19002.0	14156.7	2713.7	1471.6	1492.2	1599.5	1745.0	1714.0	1671.5	1728.8	1733.2
65°	18686.0	13451.1	2112.5	1342.2	1377.5	1487.7	1656.8	1680.3	1695.0	1805.2	1820.0
67.5°	17359.9	12078.1	1636.2	1229.0	1273.1	1411.3	1665.6	1830.2	1849.3	1965.5	1964.0
69°	15988.4	10790.3	1421.5	1170.2	1221.6	1430.4	1780.3	1925.8	1853.8	1977.2	1959.6
70°	14838.8	9771.5	1306.9	1130.4	1198.1	1464.2	1856.7	1924.3	1831.7	1937.5	1908.2
72.5°	11428.2	7029.8	1108.4	1056.9	1118.7	1401.0	1878.7	1881.7	1780.3	1800.9	1750.8
75°	7838.4	4442.6	967.3	957.0	998.2	1262.8	1808.1	1797.9	1646.5	1617.1	1575.9
77.5°	4322.0	2256.6	821.8	861.5	889.3	1118.7	1643.5	1628.8	1503.9	1442.1	1427.4
80°	1667.0	987.9	693.9	765.9	783.5	968.8	1440.6	1427.4	1323.1	1243.7	1221.6
82.5°	629.2	517.5	573.4	663.0	657.1	799.7	1220.1	1212.8	1111.3	995.3	960.0
85°	291.1	310.2	454.2	546.8	504.2	592.5	976.1	989.4	865.9	727.7	727.7
87.5°	123.5	173.5	321.9	413.0	339.5	399.8	715.9	683.6	627.7	435.1	408.7
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)