

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: McGRAW-EDISON

Report Number: P651102

Luminaire Tested: **GALN-SA8C-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 47778.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

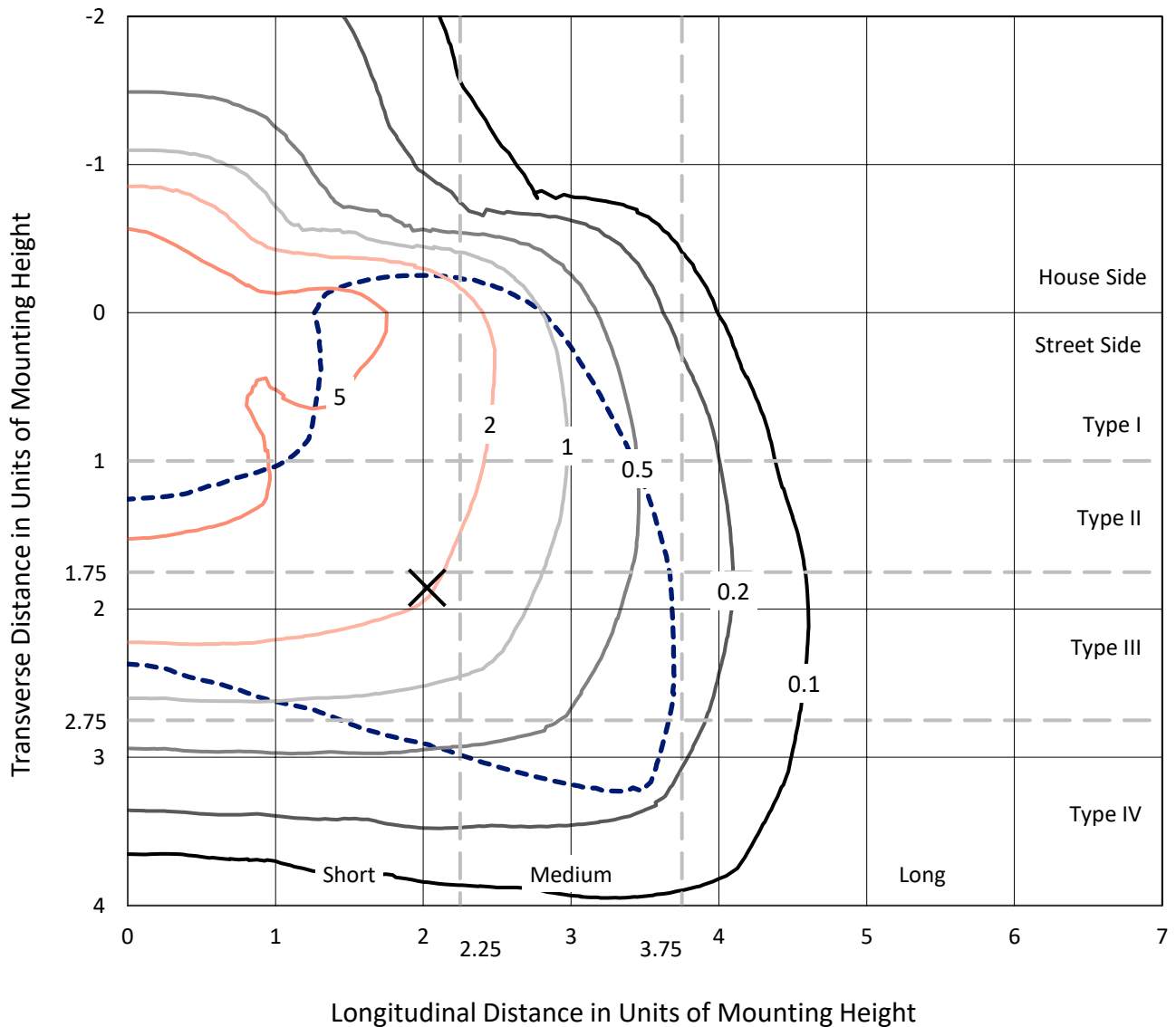
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

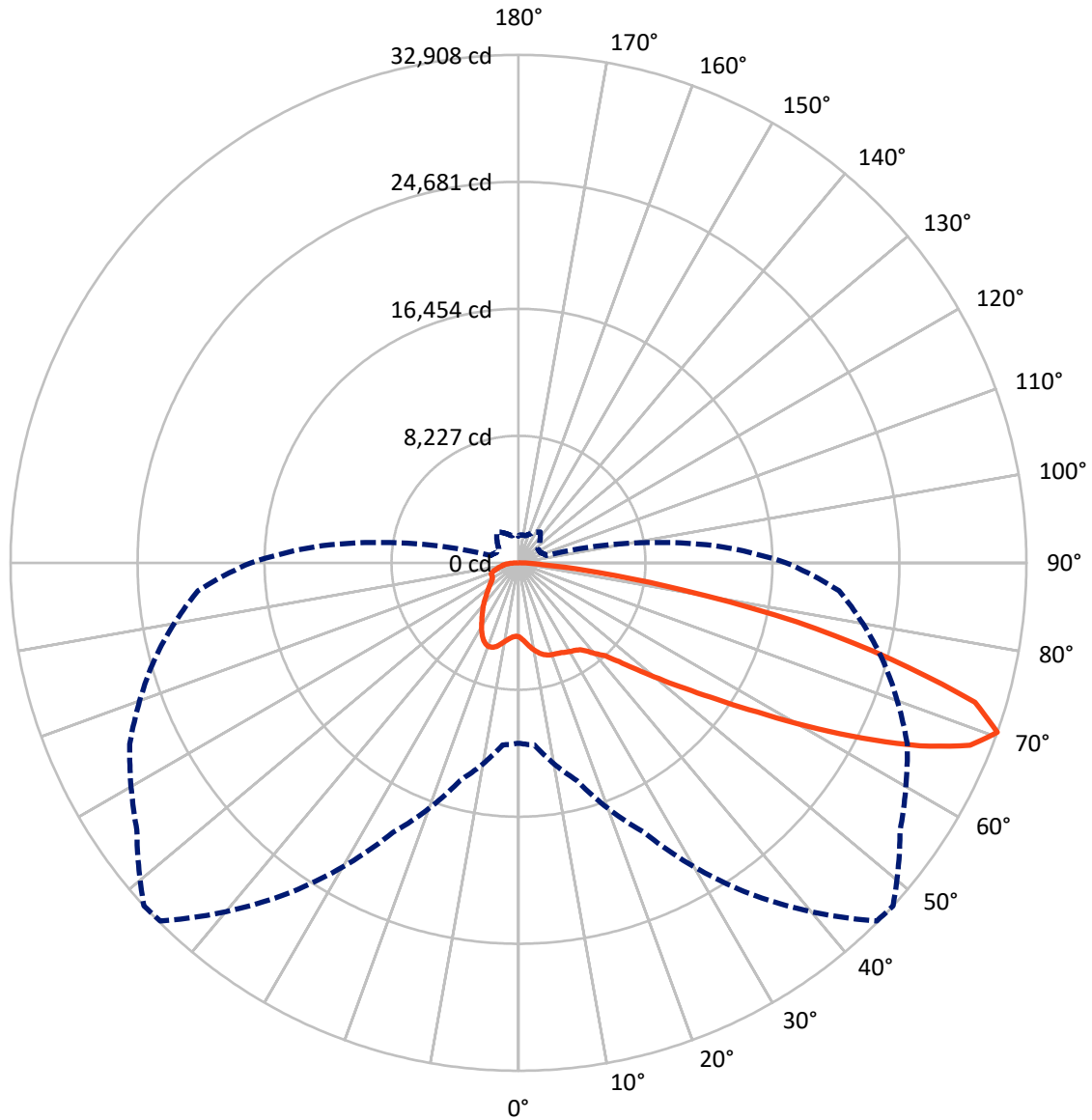
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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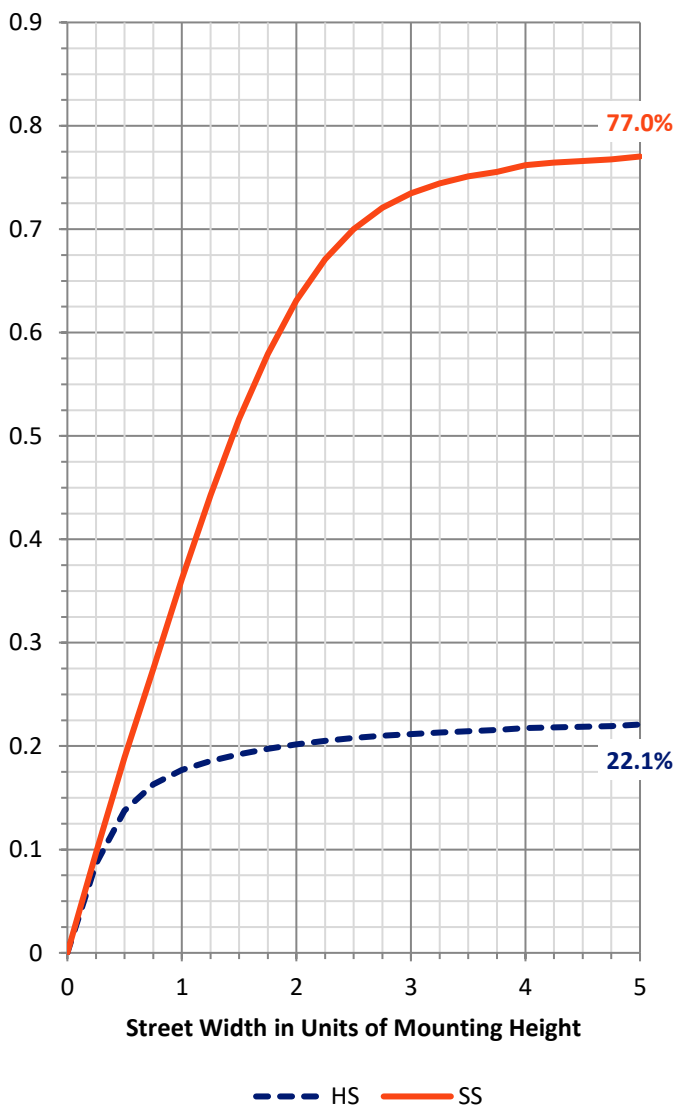
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10818.1	0.0	10818.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36960.8	0.0	36960.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	47778.9	0.0	47778.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.4	1.0
10°-20°	1652.9	3.5
20°-30°	2748.7	5.8
30°-40°	3895.8	8.2
40°-50°	5751.1	12.0
50°-60°	9961.1	20.8
60°-70°	14070.4	29.4
70°-80°	8088.4	16.9
80°-90°	1116.0	2.3
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°	47778.9	100.0
0°-180°	47778.9	100.0

Coefficient of Utilization

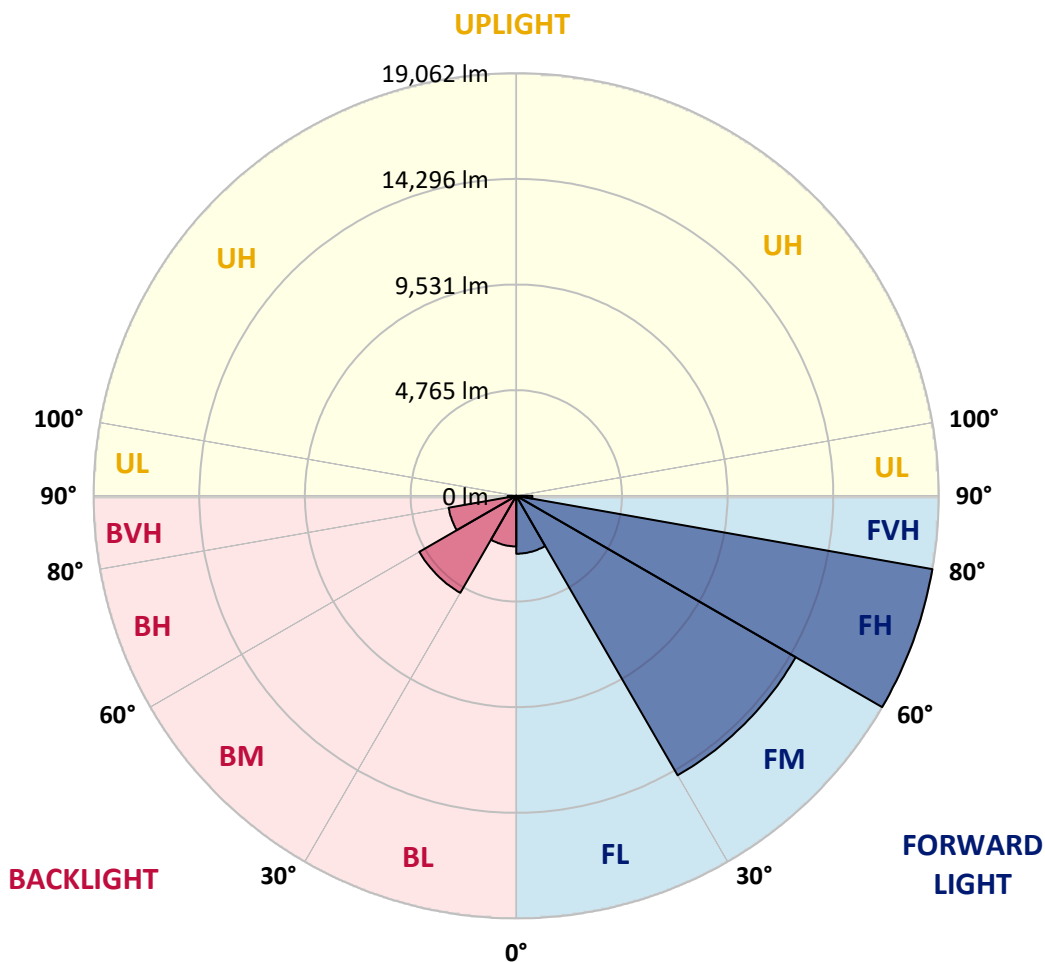


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2612.7	5.5			
FM (30°-60°)	14557.3	30.5			
FH (60°-80°)	19061.8	39.9			G5
FVH (80°-90°)	729.0	1.5			G4/750
BL (0°-30°)	2283.2	4.8	B3/2500		
BM (30°-60°)	5050.8	10.6	B4/8500		
BH (60°-80°)	3097.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	387.0	0.8			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°	47.5°	55°	65°	75°	85°
0°	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4
2.5°	5105.8	5087.9	5085.4	5047.0	5026.6	4988.1	4972.8	4937.0	4893.6	4850.1	4809.2
5°	5507.2	5507.2	5489.3	5435.6	5351.2	5264.3	5226.0	5156.9	5034.2	4934.5	4850.1
7.5°	5918.8	5923.9	5888.2	5808.9	5688.7	5548.1	5512.3	5410.1	5236.2	5090.5	4965.2
10°	6274.2	6274.2	6225.7	6118.3	5967.4	5814.0	5778.2	5663.1	5468.9	5287.3	5123.7
12.5°	6545.3	6545.3	6481.3	6340.7	6177.1	6039.0	5998.1	5888.2	5706.6	5504.7	5297.5
15°	6721.6	6708.8	6637.3	6478.7	6320.2	6200.1	6171.9	6079.9	5913.7	5709.2	5476.5
17.5°	6729.3	6724.2	6655.2	6522.2	6384.1	6302.4	6284.5	6223.1	6092.7	5898.4	5652.9
20°	6581.0	6591.3	6545.3	6450.6	6384.1	6348.4	6340.7	6320.2	6228.2	6046.7	5801.2
22.5°	6422.5	6440.4	6396.9	6345.8	6340.7	6376.5	6381.6	6386.7	6327.9	6151.5	5926.5
25°	6384.1	6396.9	6353.5	6307.4	6335.6	6430.2	6450.6	6471.1	6425.1	6276.8	6074.8
27.5°	6578.5	6568.2	6483.9	6384.1	6402.0	6529.9	6558.0	6581.0	6558.0	6430.2	6258.9
30°	7128.1	7094.9	6926.2	6634.7	6542.6	6632.1	6660.3	6724.2	6724.2	6629.6	6458.3
32.5°	8048.6	7984.7	7675.3	7102.6	6783.0	6729.3	6757.4	6862.2	6916.0	6841.8	6655.2
35°	9165.9	9099.4	8657.1	7887.5	7222.8	6923.6	6916.0	7033.5	7176.8	7010.6	6767.7
37.5°	10288.3	10219.2	9687.5	8823.3	7864.5	7332.7	7286.7	7327.5	7388.9	7084.7	6923.6
40°	11410.7	11328.9	10863.5	9869.0	8649.4	7874.7	7754.5	7570.5	7544.9	7327.5	7225.3
42.5°	12522.8	12448.7	12213.5	11042.5	9590.3	8403.9	8219.8	7902.9	8000.0	7869.7	7780.1
45°	13645.3	13650.4	13399.8	12359.3	10725.4	9380.7	9132.7	8636.6	8866.7	8818.1	8869.3
47.5°	14639.9	14627.1	14537.5	13637.6	12134.2	10638.6	10319.0	9743.7	10137.4	10316.4	10707.6
50°	15603.7	15596.1	15601.1	15087.3	13770.5	12134.2	11781.4	11178.0	12065.2	12686.5	13387.0
52.5°	16984.3	17027.8	16718.5	16582.9	15759.7	13901.0	13512.3	12888.5	14343.3	15322.5	16690.3
55°	18370.1	18334.3	18091.4	18232.0	17840.9	15992.4	15585.8	15089.8	16879.5	17950.8	20006.4
57.5°	19185.7	19198.5	19446.5	20134.2	20410.4	18600.2	18232.0	17848.5	19730.3	20489.6	22956.9
60°	19919.5	19978.3	20691.6	21990.5	22739.5	21803.8	21476.5	21103.2	22345.8	22647.5	25518.7
62.5°	20149.6	20331.1	21576.3	23519.3	25009.9	25419.0	25012.5	24189.3	24836.1	24718.5	27254.7
65°	19001.6	19249.6	21481.7	24092.0	27037.4	28850.2	28591.9	27063.0	26958.2	26250.0	27538.5
67.5°	15979.6	16227.6	19093.6	22890.4	27876.0	31821.1	31562.8	29159.5	28246.8	26393.1	25390.9
70°	11691.9	11847.9	14588.7	19272.6	26191.2	32818.2	32907.7	30182.2	27786.6	24447.4	20847.5
72.5°	6737.0	7082.1	9002.2	13558.3	21397.3	30297.3	30918.5	28055.0	24876.9	20395.0	14576.0
75°	2896.7	2904.5	4162.4	7478.4	14491.5	24352.8	24953.6	23256.0	19536.0	14102.9	7782.7
77.5°	1378.1	1403.6	1830.6	3339.1	7977.0	16825.8	18446.8	16429.5	12494.7	6775.3	2940.2
80°	894.8	912.7	1119.9	1656.8	3911.8	9756.4	10886.6	9477.8	5512.3	2421.2	1268.1
82.5°	542.0	547.2	749.2	1012.5	2152.8	4418.0	5208.1	4113.8	2352.2	1449.6	746.6
85°	329.8	332.4	455.1	626.4	1306.5	1526.3	1567.3	1554.5	1380.7	948.6	398.9
87.5°	158.5	163.7	235.2	296.6	513.9	473.0	447.4	519.0	651.9	511.3	171.3
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°	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4
2.5°	4791.3	4783.6	4765.8	4758.0	4753.0	4755.5	4753.0	4753.0	4755.5	4755.5	4755.5
5°	4814.3	4801.5	4773.4	4773.4	4788.7	4824.6	4857.8	4883.4	4911.4	4908.9	4908.9
7.5°	4914.0	4891.0	4857.8	4868.0	4906.4	4962.6	5021.4	5077.7	5133.9	5139.0	5136.5
10°	5059.8	5036.7	5000.9	5013.8	5075.1	5159.5	5233.6	5315.5	5376.8	5394.7	5389.5
12.5°	5226.0	5180.0	5149.3	5185.0	5282.2	5394.7	5466.2	5527.6	5571.1	5596.7	5586.4
15°	5394.7	5351.2	5315.5	5389.5	5507.2	5612.0	5647.8	5658.1	5665.7	5691.3	5686.2
17.5°	5558.3	5499.6	5486.8	5583.9	5696.4	5742.4	5722.0	5678.5	5645.3	5665.7	5663.1
20°	5704.1	5658.1	5652.9	5750.1	5793.6	5750.1	5663.1	5586.4	5527.6	5532.8	5530.2
22.5°	5842.1	5806.3	5811.5	5852.4	5783.3	5635.0	5491.9	5387.0	5323.1	5335.9	5343.5
25°	5995.6	5959.7	5972.5	5906.0	5678.5	5420.2	5213.2	5123.7	5098.1	5123.7	5141.6
27.5°	6195.0	6171.9	6164.3	5908.6	5491.9	5103.3	4868.0	4834.7	4857.8	4914.0	4942.1
30°	6409.7	6409.7	6368.8	5865.1	5236.2	4722.3	4517.8	4522.8	4602.1	4681.3	4709.5
32.5°	6616.8	6660.3	6532.5	5747.6	4906.4	4351.6	4195.6	4200.7	4269.8	4366.9	4392.5
35°	6788.1	6913.4	6673.1	5532.8	4517.8	4039.7	3922.0	3853.0	3855.6	3929.7	3950.2
37.5°	7023.4	7256.0	6754.9	5213.2	4103.6	3773.7	3640.8	3520.6	3441.4	3410.7	3410.7
40°	7432.4	7775.0	6775.3	4740.2	3712.3	3520.6	3331.5	3188.2	3034.8	2896.7	2871.2
42.5°	8125.3	8557.3	6734.4	4195.6	3359.5	3242.0	3057.9	2881.4	2669.2	2474.9	2459.6
45°	9352.5	9575.0	6624.5	3630.6	3045.1	2973.4	2794.5	2602.7	2377.8	2203.9	2191.1
47.5°	11318.7	11004.1	6478.7	3129.4	2758.7	2738.3	2600.2	2377.8	2152.8	2032.6	2019.8
50°	14189.9	13254.1	6458.3	2766.4	2528.6	2538.8	2426.4	2221.8	2025.0	1925.2	1909.9
52.5°	17646.5	15971.9	6593.8	2510.7	2326.6	2365.0	2308.7	2119.5	1945.7	1861.3	1846.0
55°	21000.9	18416.1	6675.6	2311.3	2137.4	2209.1	2216.7	2058.2	1899.7	1815.3	1805.0
57.5°	23723.9	20257.0	6312.5	2129.7	1973.8	2083.7	2140.0	2022.4	1876.6	1812.7	1802.5
60°	25618.5	21126.3	5279.6	1968.7	1853.6	1984.0	2111.8	2025.0	1932.9	1940.5	1945.7
62.5°	26221.8	20740.2	3960.4	1848.5	1771.8	1950.8	2157.9	2129.7	2035.1	2093.9	2104.2
65°	25222.2	19144.8	2871.2	1753.9	1700.2	1973.8	2295.9	2206.4	1999.4	2042.8	2042.8
67.5°	21875.4	16493.4	2234.6	1666.9	1618.4	2017.2	2434.0	2198.8	1915.0	1966.1	1920.1
70°	17352.5	12758.1	1861.3	1569.8	1531.5	1953.3	2446.8	2119.5	1815.3	1825.5	1738.6
72.5°	11515.5	8388.6	1600.5	1477.8	1398.5	1756.5	2341.9	2017.2	1718.2	1659.3	1572.4
75°	5642.7	4182.8	1396.0	1362.8	1224.7	1528.9	2198.8	1920.1	1613.3	1521.3	1472.7
77.5°	2186.0	1779.5	1191.4	1217.0	1066.1	1347.4	2009.6	1782.1	1475.2	1350.0	1311.6
80°	1061.0	1009.9	976.7	1015.0	877.0	1148.0	1835.7	1661.9	1347.4	1209.4	1153.1
82.5°	659.6	623.9	749.2	790.0	675.0	1048.2	1741.1	1559.6	1186.3	1002.2	956.2
85°	335.0	357.9	501.2	539.5	483.2	833.5	1434.3	1171.0	856.5	710.7	715.9
87.5°	127.8	171.3	263.3	283.8	258.3	439.8	790.0	682.6	549.7	373.3	345.1
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)