

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: P648185

Luminaire Tested: **GALN-SA9A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 32389.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

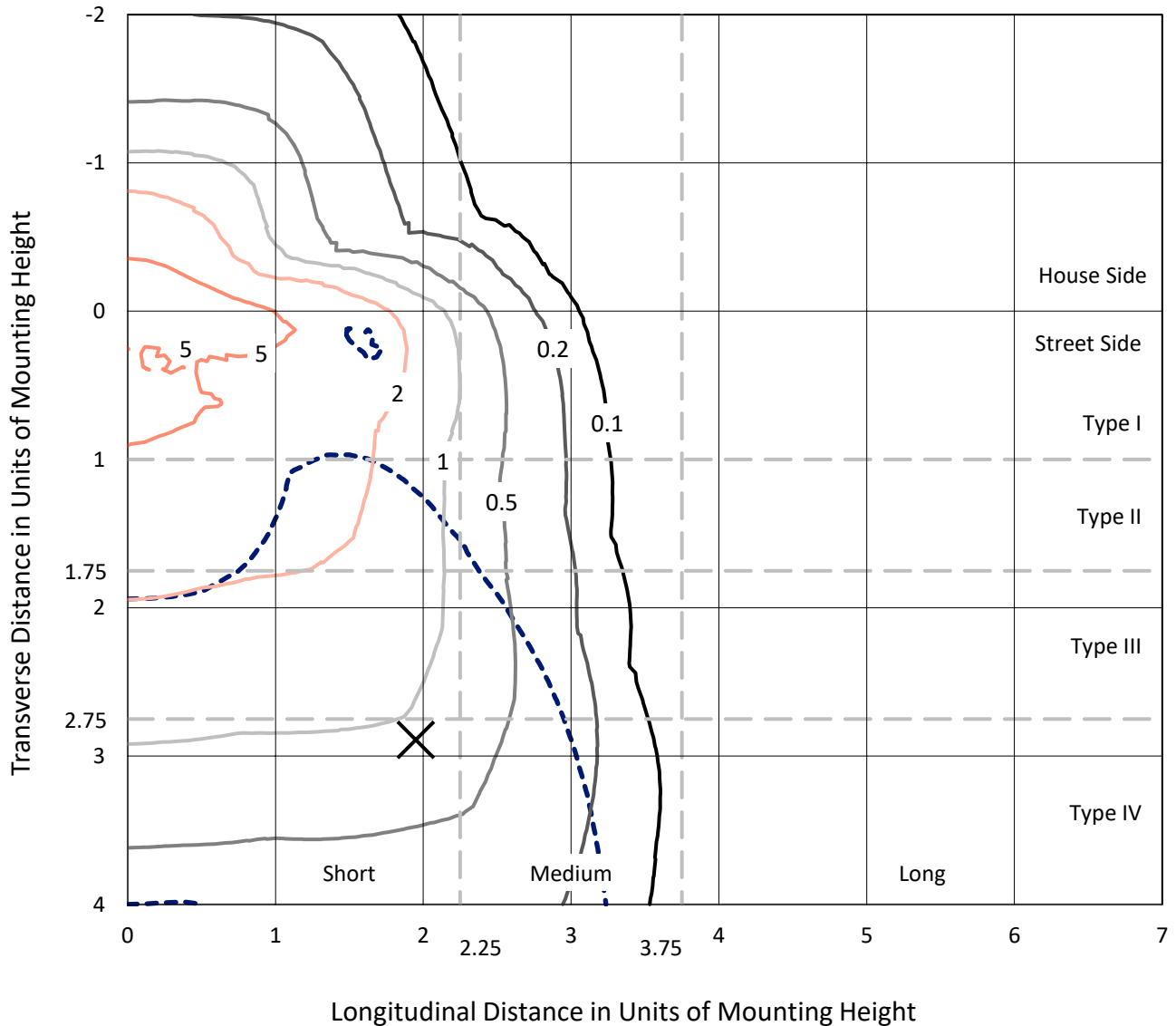
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

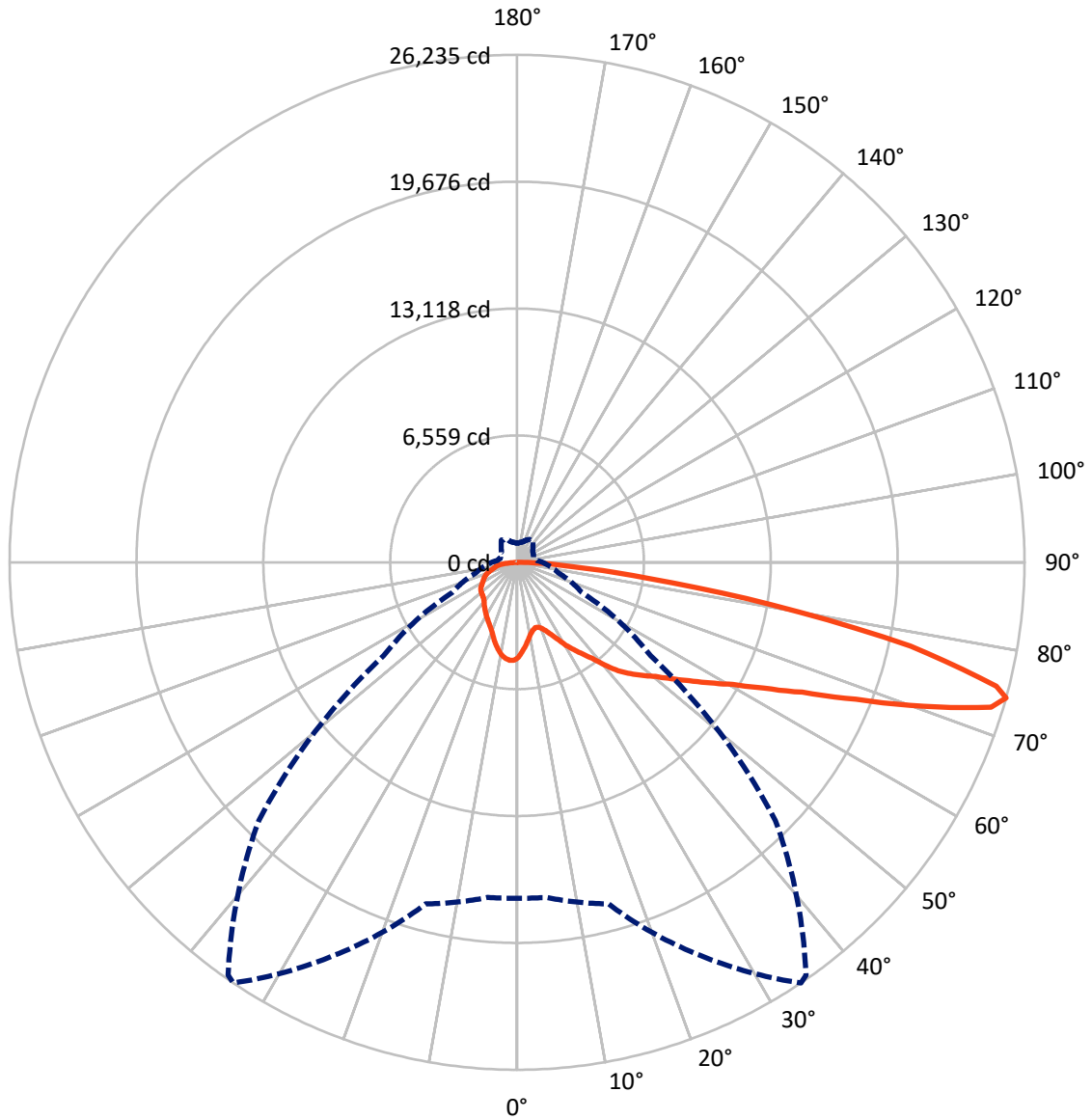
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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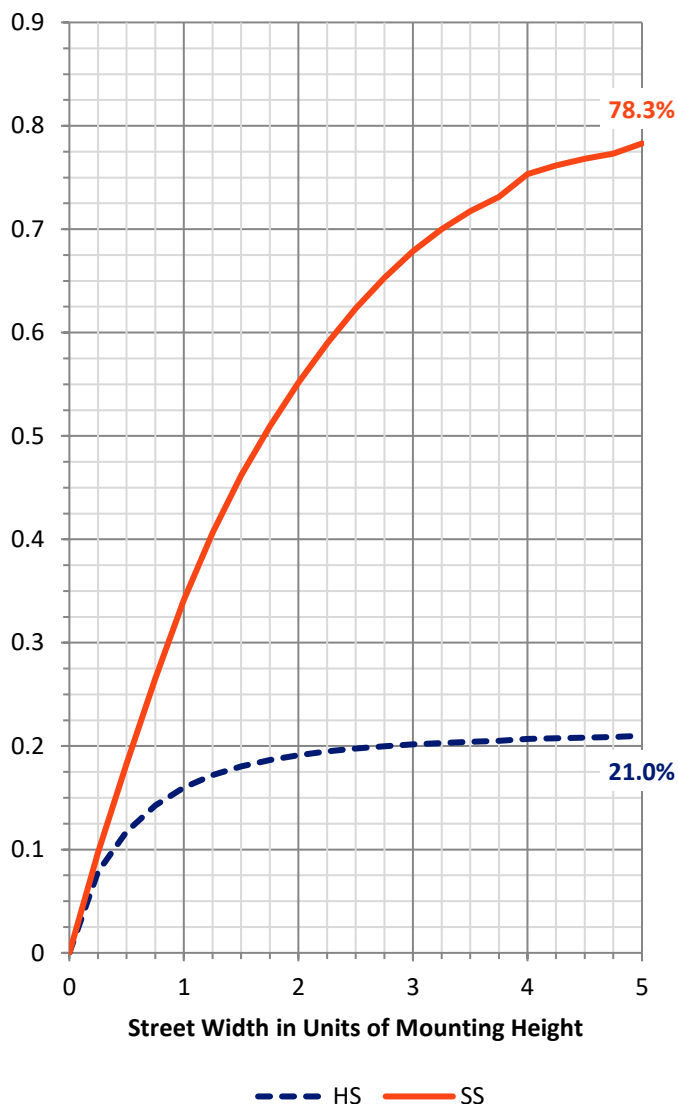
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6892.7	0.0	6892.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25496.8	0.0	25496.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	32389.6	0.0	32389.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.8	1.4
10°-20°	1231.2	3.8
20°-30°	2029.9	6.3
30°-40°	3040.5	9.4
40°-50°	4420.1	13.6
50°-60°	6173.8	19.1
60°-70°	7729.3	23.9
70°-80°	6391.5	19.7
80°-90°	923.5	2.9
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°	32389.6	100.0
0°-180°	32389.6	100.0

Coefficient of Utilization



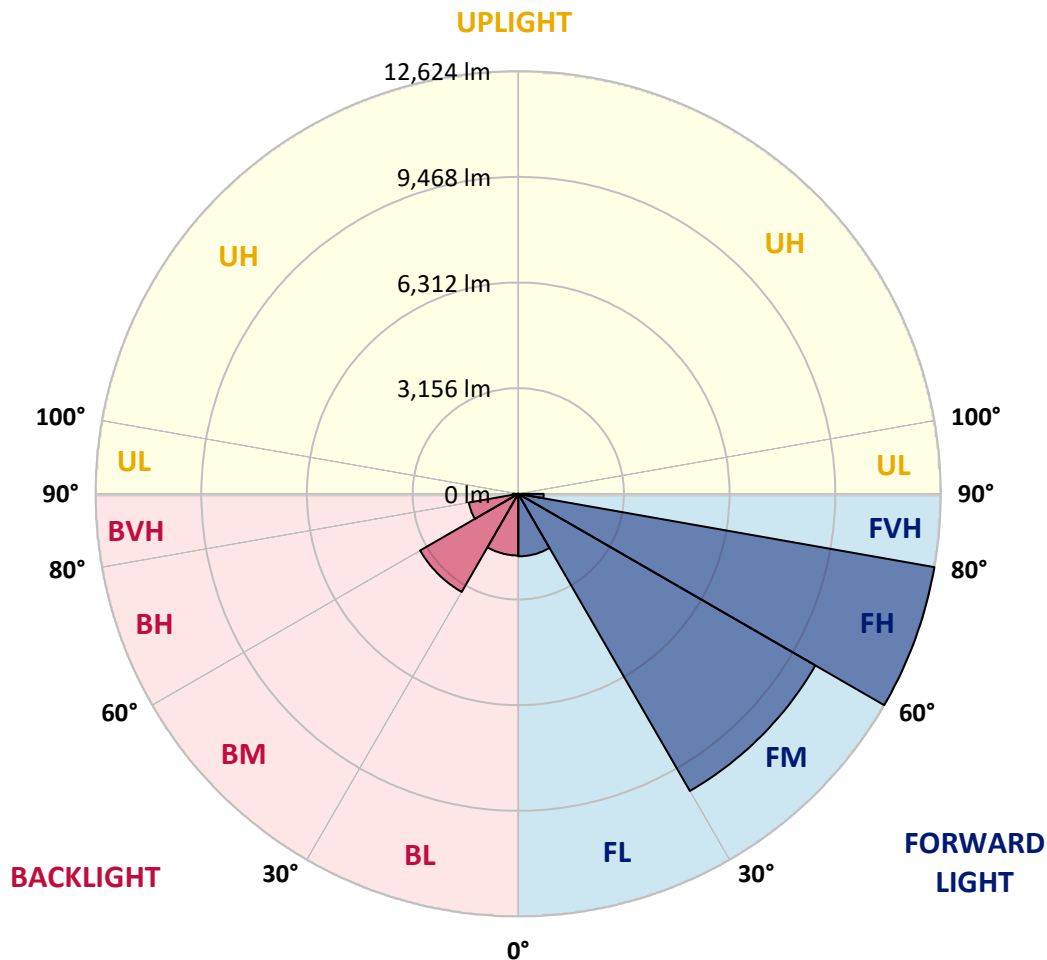
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.1	5.8			
FM (30°-60°)	10249.4	31.6			
FH (60°-80°)	12623.7	39.0			G5
FVH (80°-90°)	756.6	2.3			G5
BL (0°-30°)	1843.7	5.7	B3/2500		
BM (30°-60°)	3385.0	10.5	B3/5000		
BH (60°-80°)	1497.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	166.9	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3
2.5°	4570.2	4593.5	4606.1	4650.9	4661.7	4676.1	4713.7	4764.0	4828.6	4886.0	4936.3
5°	4189.8	4225.7	4247.2	4286.7	4363.9	4371.0	4471.6	4586.3	4717.3	4839.4	4939.9
7.5°	3829.2	3868.6	3886.6	3958.4	4060.6	4076.8	4223.9	4405.2	4624.1	4808.9	4963.2
10°	3558.2	3577.9	3617.5	3671.3	3793.2	3804.0	3996.0	4238.3	4521.7	4794.5	5002.7
12.5°	3411.1	3421.9	3430.8	3488.3	3608.5	3624.6	3825.6	4100.1	4441.0	4805.3	5067.3
15°	3432.6	3436.2	3396.7	3407.5	3504.4	3527.7	3726.8	4008.6	4390.8	4832.2	5164.2
17.5°	3613.9	3601.3	3504.4	3454.1	3522.3	3533.1	3707.1	3972.7	4367.5	4882.5	5264.7
20°	3899.1	3881.2	3714.3	3603.1	3642.5	3651.5	3771.7	3999.6	4390.8	4965.0	5420.8
22.5°	4254.4	4247.2	3994.2	3859.6	3857.8	3857.8	3920.6	4096.5	4460.8	5078.1	5584.0
25°	4751.5	4713.7	4383.6	4209.6	4161.1	4157.5	4150.4	4256.2	4550.5	5198.3	5777.8
27.5°	5261.1	5196.5	4902.2	4634.8	4530.8	4518.2	4471.6	4482.3	4665.3	5334.7	5998.6
30°	5718.6	5677.4	5401.0	5104.9	4981.1	4952.4	4823.2	4764.0	4857.3	5580.4	6350.2
32.5°	6068.5	6043.4	5828.1	5558.9	5375.9	5370.5	5182.1	5133.7	5157.0	5878.3	6752.2
35°	6352.0	6361.0	6251.6	6018.3	5808.4	5777.8	5652.2	5591.2	5523.0	6308.9	7258.2
37.5°	6739.6	6759.3	6752.2	6551.2	6294.6	6301.8	6273.1	6172.6	5991.4	6789.9	7819.8
40°	7166.6	7181.0	7179.2	7102.0	6967.5	6974.7	6963.9	6849.1	6578.1	7401.7	8444.3
42.5°	7757.0	7688.8	7511.2	7588.4	7667.3	7701.4	7775.0	7665.5	7294.0	8054.9	9031.0
45°	8417.3	8288.1	7886.2	7922.1	8214.5	8279.1	8684.7	8534.0	8071.0	8804.9	9721.8
47.5°	8833.6	8706.3	8367.1	8359.9	8747.5	8810.3	9528.0	9472.4	8778.0	9614.1	10565.2
50°	9205.0	9187.1	8804.9	8896.4	9275.0	9368.4	10446.7	10394.7	9483.1	10568.8	11483.9
52.5°	9755.9	9610.5	9305.6	9494.0	9994.6	10116.6	11358.3	11205.7	10130.9	11412.1	12375.7
55°	10003.5	9969.5	9951.5	10114.8	10802.0	10890.0	12244.7	11894.8	10683.6	12126.2	13053.9
57.5°	10665.6	10602.8	10780.5	10891.8	11753.1	11887.6	13170.6	12614.4	11168.1	12693.3	13384.1
60°	11523.3	11489.3	11652.5	11853.5	12815.3	13019.9	14225.7	13228.0	11557.5	12978.6	13202.9
62.5°	12804.6	12801.0	12770.4	13201.1	14320.8	14509.1	15436.8	13825.5	11618.5	12765.1	12266.2
65°	14641.9	14577.3	14311.8	14781.9	16194.1	16414.8	16698.3	14159.3	11250.6	11668.7	10328.3
67.5°	16563.7	16560.1	16344.8	16954.8	18883.8	19111.7	18275.5	14085.7	10229.7	9452.7	7335.3
70°	18157.1	18079.9	18354.5	19980.2	22320.0	22583.8	19655.4	13219.0	8148.2	6242.5	4358.5
72.5°	18539.3	18542.8	19113.5	22312.8	25619.8	25661.1	20152.5	10714.1	5453.0	3443.4	2180.1
74°	17362.2	17392.7	18277.3	22429.4	26235.3	26048.7	18882.0	8420.9	3687.4	2248.3	1571.9
75°	15847.8	15655.8	16935.1	21652.5	25596.5	25395.5	17394.5	6757.5	2813.6	1796.1	1376.3
77.5°	8472.9	8668.5	10642.3	16158.2	20794.8	20563.3	11794.3	3240.6	1519.8	1250.7	990.5
80°	3016.4	3326.7	4676.1	8455.0	13332.1	13403.9	5628.9	1485.7	1069.4	922.3	699.8
82.5°	1231.0	1265.0	2007.8	3752.0	6770.1	6834.7	2298.6	882.8	764.4	635.2	418.1
85°	480.9	495.2	888.2	1686.7	2888.9	3077.3	794.9	466.5	470.1	364.3	213.5
87.5°	161.5	183.0	364.3	561.6	981.5	961.8	231.5	138.2	168.7	157.9	66.4
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°	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3	4945.3
2.5°	4961.4	4995.5	5018.8	5043.9	5067.3	5074.5	5069.1	5085.2	5087.0	5088.8	5090.6
5°	4990.1	5036.7	5081.6	5106.7	5117.5	5108.5	5078.1	5061.9	5047.5	5036.7	5040.3
7.5°	5029.6	5096.0	5137.3	5148.0	5119.3	5078.1	5002.7	4943.5	4905.8	4880.7	4878.9
10°	5090.6	5155.2	5189.3	5158.8	5079.8	4979.3	4860.9	4749.7	4665.3	4640.2	4638.4
12.5°	5167.7	5241.3	5239.5	5149.8	5011.7	4832.2	4640.2	4511.0	4396.2	4338.8	4362.1
15°	5268.3	5323.9	5271.8	5110.3	4891.4	4645.6	4408.8	4232.9	4103.7	4042.7	4046.3
17.5°	5384.8	5433.3	5295.1	5040.3	4722.7	4407.0	4132.4	3965.5	3863.2	3818.4	3814.8
20°	5530.2	5544.6	5295.1	4918.3	4505.6	4128.8	3866.8	3750.2	3692.8	3669.5	3676.7
22.5°	5686.3	5657.6	5266.5	4746.1	4220.3	3838.1	3662.2	3610.3	3581.5	3577.9	3581.5
25°	5862.2	5781.4	5207.3	4512.8	3922.4	3586.9	3484.7	3493.6	3499.0	3499.0	3511.5
27.5°	6077.5	5916.0	5108.5	4218.6	3574.4	3353.7	3324.9	3387.7	3416.5	3421.9	3430.8
30°	6361.0	6063.2	4945.3	3850.7	3278.3	3143.7	3193.9	3278.3	3310.6	3330.3	3326.7
32.5°	6698.3	6224.6	4724.5	3482.9	3039.6	2996.5	3057.6	3143.7	3179.6	3190.3	3176.0
35°	7094.9	6407.7	4433.9	3138.3	2831.5	2856.6	2928.4	2955.3	2987.6	2987.6	2994.8
37.5°	7522.0	6554.8	4078.6	2822.6	2670.0	2761.5	2813.6	2788.4	2774.1	2756.2	2765.1
40°	7956.1	6664.3	3617.5	2510.3	2508.5	2662.8	2677.2	2605.4	2548.0	2530.0	2521.1
42.5°	8334.8	6732.4	3201.1	2268.0	2356.0	2566.0	2576.7	2461.8	2370.4	2316.5	2298.6
45°	8781.6	6811.4	2793.8	2067.1	2214.2	2488.8	2515.7	2361.4	2226.8	2113.8	2085.1
47.5°	9393.5	6990.8	2472.6	1911.0	2112.0	2440.3	2478.0	2278.8	2101.2	1954.1	1930.7
50°	10084.3	7236.6	2223.2	1805.1	2033.0	2397.2	2443.9	2194.5	1984.6	1821.3	1803.3
52.5°	10717.7	7369.4	2007.8	1710.0	1955.9	2318.3	2399.0	2133.5	1869.7	1688.5	1672.3
55°	11064.0	7154.1	1796.1	1616.7	1850.0	2216.0	2336.2	2049.2	1758.5	1618.5	1595.2
57.5°	11110.7	6709.1	1604.1	1516.2	1738.7	2090.5	2219.6	1946.9	1686.7	1570.1	1550.3
60°	10750.0	6045.2	1455.2	1433.7	1625.7	1948.7	2088.7	1857.2	1613.1	1516.2	1496.5
62.5°	9852.8	5323.9	1351.1	1358.3	1510.9	1799.7	1991.7	1771.1	1543.1	1457.0	1439.1
65°	8309.7	4394.4	1250.7	1281.1	1408.5	1683.1	1903.8	1699.3	1473.1	1412.1	1396.0
67.5°	5772.4	3172.4	1168.2	1200.4	1311.7	1564.7	1801.5	1622.1	1394.2	1362.0	1336.8
70°	3195.7	1952.3	1071.2	1108.9	1211.2	1431.9	1686.7	1505.5	1279.3	1265.0	1229.2
72.5°	1679.5	1243.5	961.8	1003.0	1074.8	1261.4	1510.9	1378.1	1166.4	1105.4	1058.7
74°	1311.7	1019.2	888.2	931.3	979.7	1161.0	1406.7	1286.5	1085.6	1013.8	977.9
75°	1143.0	908.0	825.4	881.0	924.1	1092.8	1326.0	1221.9	1040.8	972.6	940.2
77.5°	807.4	680.0	674.7	741.0	764.4	958.2	1195.0	1112.5	927.7	855.9	825.4
80°	567.0	509.6	534.7	576.0	608.3	847.0	1108.9	961.8	760.8	676.4	665.7
82.5°	369.7	333.7	382.2	419.8	430.6	624.4	895.4	730.3	554.4	450.4	418.1
85°	170.5	166.9	218.9	213.5	211.7	305.1	531.1	427.0	319.4	238.7	224.3
87.5°	43.1	41.3	53.8	44.9	53.8	46.7	48.5	12.5	1.8	0.0	0.0
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)