

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: P647140

Luminaire Tested: **GALN-SA8C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647140
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-SA8C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 44353.8 lumens
Efficiency: N/A
Efficacy: 103.4 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

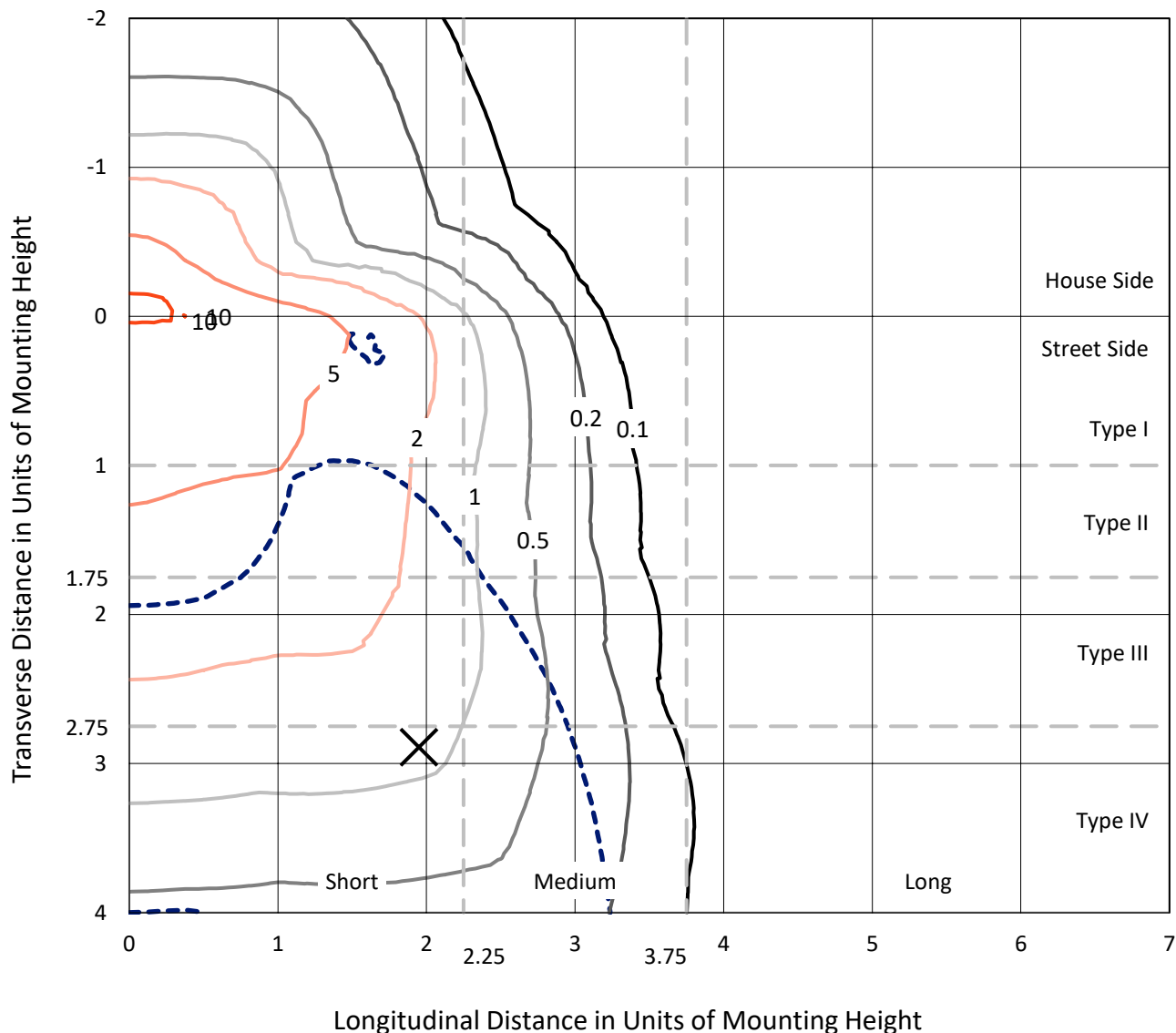
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

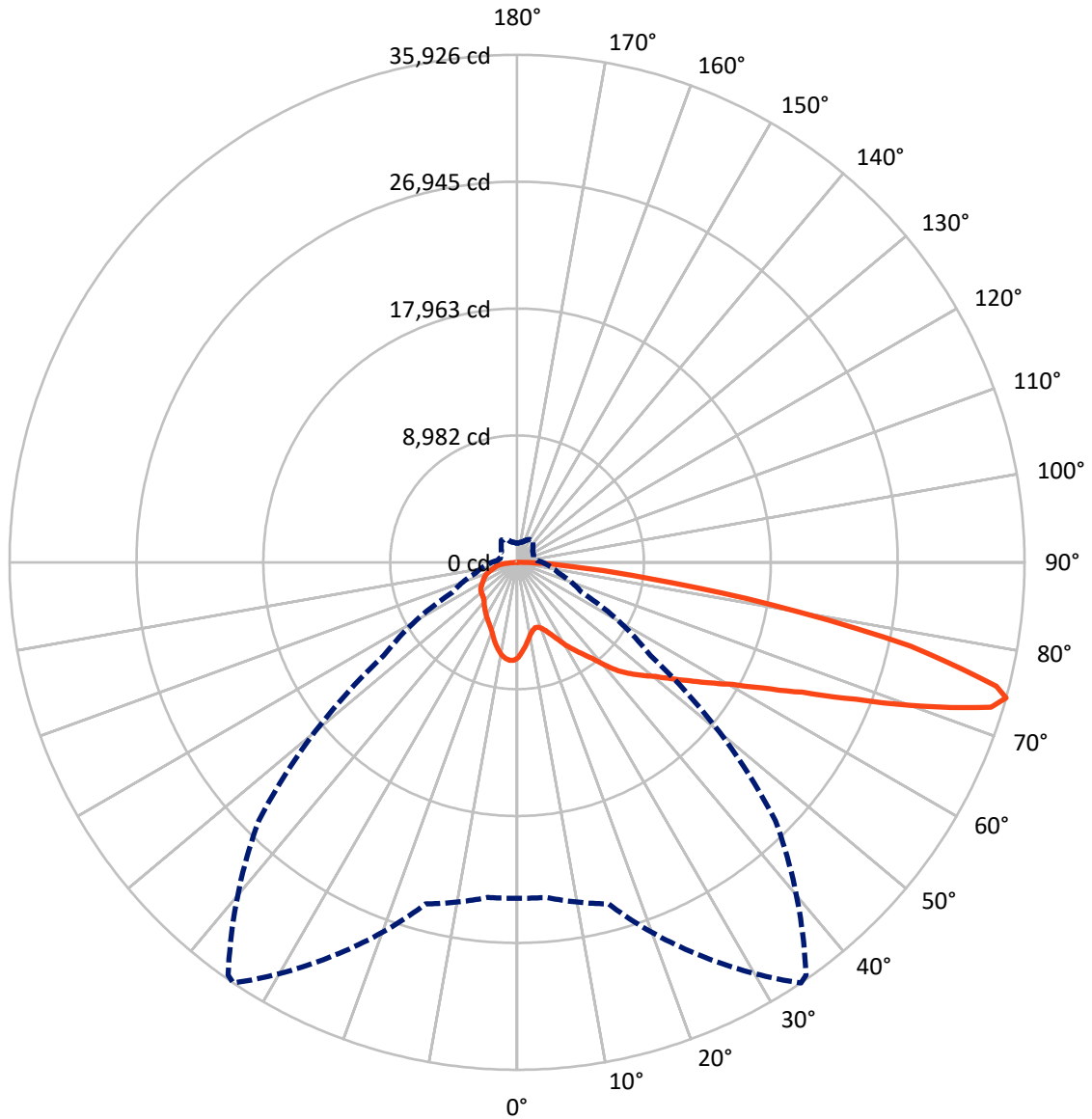
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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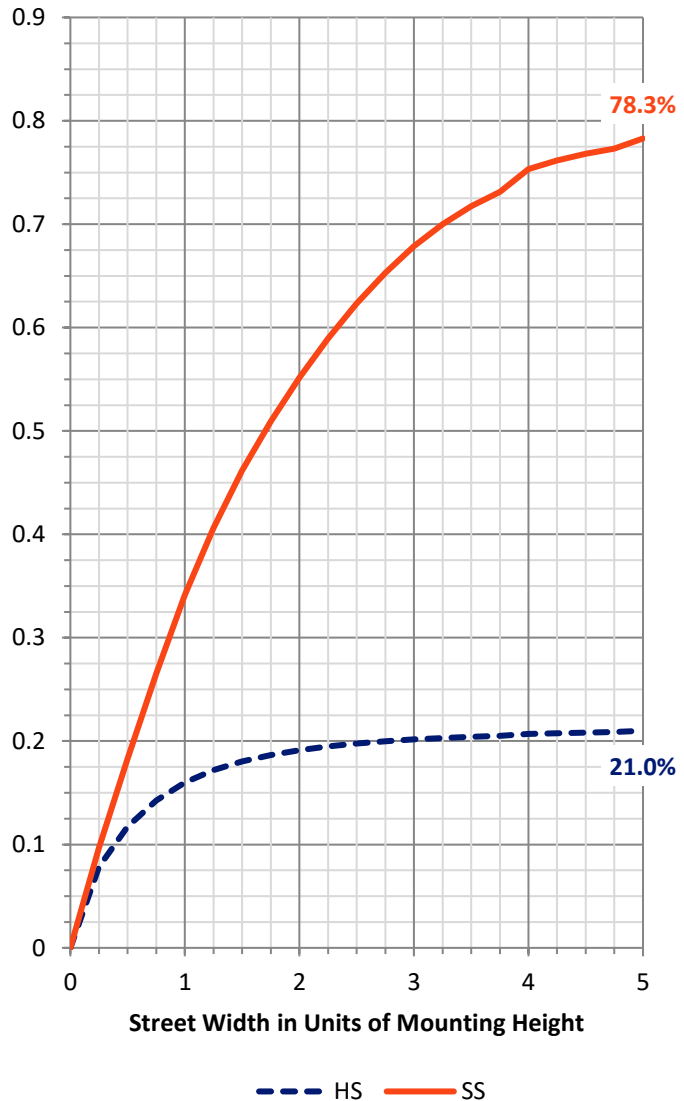
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9438.8	0.0	9438.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	34915.0	0.0	34915.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	44353.8	0.0	44353.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.9	1.4
10°-20°	1685.9	3.8
20°-30°	2779.7	6.3
30°-40°	4163.6	9.4
40°-50°	6052.8	13.6
50°-60°	8454.3	19.1
60°-70°	10584.4	23.9
70°-80°	8752.4	19.7
80°-90°	1264.7	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°	44353.8	100.0
0°-180°	44353.8	100.0

Coefficient of Utilization

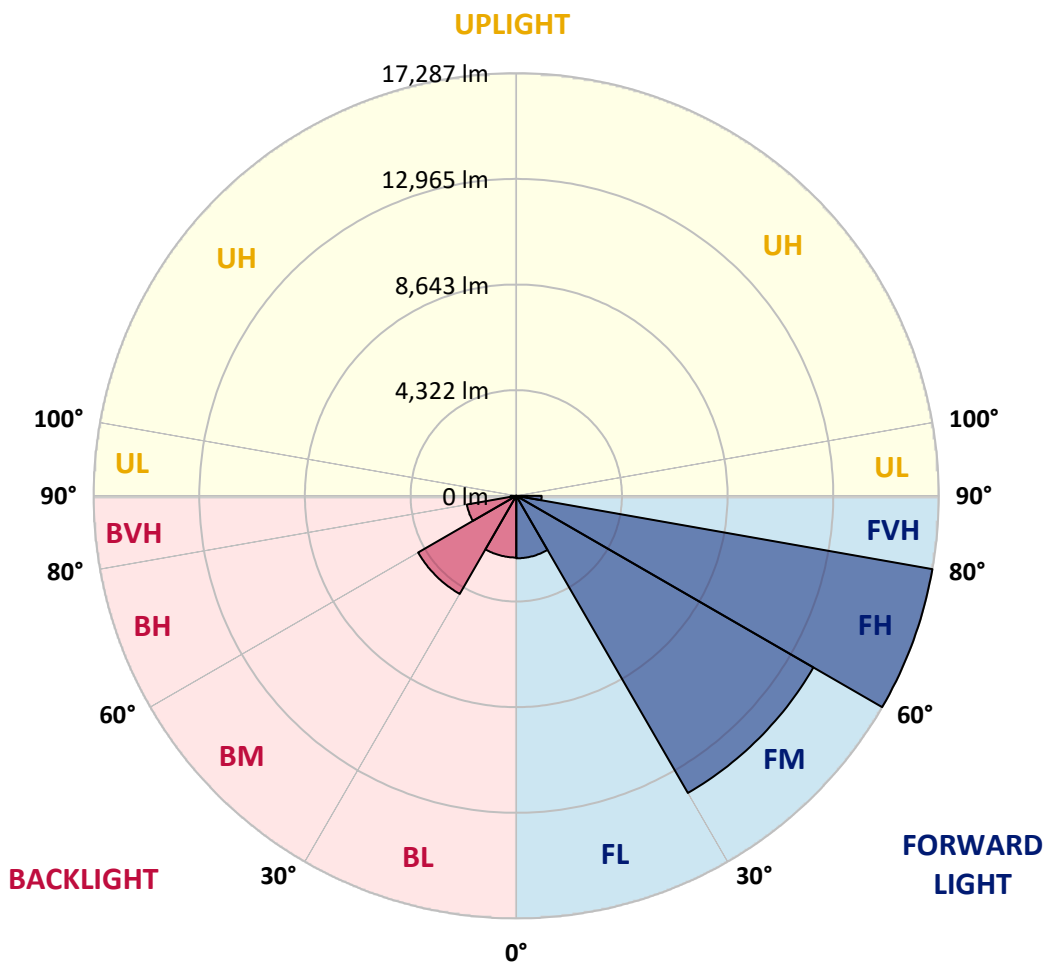


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.8	5.8			
FM (30°-60°)	14035.4	31.6			
FH (60°-80°)	17286.8	39.0			G5
FVH (80°-90°)	1036.1	2.3			G5
BL (0°-30°)	2524.7	5.7	B4/5000		
BM (30°-60°)	4635.4	10.5	B3/5000		
BH (60°-80°)	2050.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	228.6	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9
2.5°	6258.4	6290.3	6307.5	6369.0	6383.7	6403.4	6455.0	6523.8	6612.2	6690.9	6759.6
5°	5737.5	5786.6	5816.1	5870.2	5975.9	5985.6	6123.3	6280.5	6459.9	6627.0	6764.6
7.5°	5243.6	5297.6	5322.2	5420.5	5560.6	5582.7	5784.2	6032.3	6332.1	6585.2	6796.5
10°	4872.5	4899.6	4953.6	5027.3	5194.4	5209.2	5472.1	5803.8	6192.0	6565.5	6850.5
12.5°	4671.1	4685.8	4698.1	4776.8	4941.4	4963.5	5238.7	5614.7	6081.5	6580.3	6939.0
15°	4700.6	4705.4	4651.4	4666.1	4798.9	4830.8	5103.5	5489.3	6012.7	6617.1	7071.7
17.5°	4948.7	4931.6	4798.9	4730.0	4823.4	4838.2	5076.5	5440.2	5980.7	6686.0	7209.3
20°	5339.4	5314.8	5086.4	4934.0	4988.0	5000.3	5165.0	5477.0	6012.7	6798.9	7423.1
22.5°	5825.9	5816.1	5469.6	5285.3	5282.9	5282.9	5368.9	5609.7	6108.5	6953.7	7646.7
25°	6506.6	6455.0	6002.9	5764.5	5698.2	5693.3	5683.4	5828.4	6231.3	7118.4	7912.1
27.5°	7204.4	7116.0	6713.0	6346.8	6204.3	6187.1	6123.3	6138.0	6388.7	7305.2	8214.3
30°	7831.0	7774.5	7396.1	6990.6	6821.1	6781.8	6604.8	6523.8	6651.6	7641.8	8695.9
32.5°	8310.1	8275.8	7980.9	7612.3	7361.7	7354.3	7096.3	7029.9	7061.9	8049.7	9246.3
35°	8698.3	8710.6	8560.8	8241.3	7953.9	7912.1	7740.1	7656.6	7563.2	8639.4	9939.2
37.5°	9229.1	9256.2	9246.3	8971.1	8619.7	8629.6	8590.3	8452.6	8204.5	9297.9	10708.3
40°	9813.9	9833.6	9831.1	9725.5	9541.2	9551.0	9536.2	9379.0	9007.9	10135.8	11563.4
42.5°	10622.3	10528.9	10285.7	10391.3	10499.5	10546.1	10646.9	10497.0	9988.4	11030.2	12366.9
45°	11526.5	11349.7	10799.2	10848.4	11248.9	11337.4	11892.7	11686.3	11052.4	12057.3	13313.0
47.5°	12096.6	11922.2	11457.8	11447.9	11978.7	12064.7	13047.5	12971.4	12020.5	13165.5	14467.8
50°	12605.3	12580.7	12057.3	12182.6	12701.1	12828.8	14305.6	14234.4	12986.1	14472.7	15725.9
52.5°	13359.6	13160.6	12742.9	13000.9	13686.4	13853.5	15553.8	15345.0	13873.2	15627.6	16947.1
55°	13698.7	13652.0	13627.4	13851.0	14792.1	14912.5	16767.7	16288.6	14630.0	16605.6	17875.9
57.5°	14605.4	14519.4	14762.7	14915.0	16094.4	16278.7	18035.6	17273.8	15293.4	17382.0	18328.0
60°	15780.0	15733.2	15956.8	16232.1	17549.1	17829.2	19480.4	18114.2	15826.6	17772.7	18079.9
62.5°	17534.3	17529.4	17487.7	18077.4	19610.6	19868.6	21139.0	18932.5	15910.2	17480.3	16797.2
65°	20050.5	19962.0	19598.3	20242.1	22175.9	22478.1	22866.4	19389.5	15406.5	15978.9	14143.5
67.5°	22682.1	22677.2	22382.4	23217.8	25859.2	26171.3	25026.2	19288.7	14008.3	12944.3	10044.9
70°	24864.1	24758.4	25134.4	27360.5	30564.7	30925.9	26915.8	18101.9	11158.0	8548.5	5968.5
72.5°	25387.4	25392.4	26173.7	30554.9	35083.4	35139.9	27596.4	14671.8	7467.3	4715.3	2985.4
74°	23775.6	23817.3	25028.7	30714.6	35926.2	35670.7	25856.8	11531.5	5049.5	3078.8	2152.5
75°	21701.7	21438.8	23190.7	29650.6	35051.5	34776.2	23819.8	9253.7	3852.8	2459.6	1884.7
77.5°	11602.7	11870.6	14573.4	22126.8	28476.1	28159.1	16150.9	4437.7	2081.2	1712.7	1356.4
80°	4130.5	4555.6	6403.4	11578.1	18256.7	18355.0	7708.2	2034.5	1464.4	1263.0	958.3
82.5°	1685.6	1732.3	2749.6	5138.0	9270.9	9359.4	3147.7	1209.0	1046.7	869.8	572.5
85°	658.5	678.2	1216.3	2309.8	3956.0	4214.0	1088.5	638.8	643.8	498.8	292.4
87.5°	221.1	250.6	498.8	769.1	1344.1	1317.0	317.0	189.2	231.0	216.3	90.9
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°	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9
2.5°	6794.1	6840.8	6872.7	6907.1	6939.0	6948.9	6941.5	6963.6	6966.0	6968.5	6971.0
5°	6833.4	6897.3	6958.7	6993.1	7007.8	6995.6	6953.7	6931.7	6912.0	6897.3	6902.1
7.5°	6887.4	6978.3	7034.9	7049.6	7010.3	6953.7	6850.5	6769.5	6717.9	6683.5	6681.0
10°	6971.0	7059.4	7106.1	7064.4	6956.3	6818.6	6656.4	6504.1	6388.7	6354.2	6351.8
12.5°	7076.7	7177.4	7174.9	7052.1	6862.8	6617.1	6354.2	6177.3	6020.1	5941.4	5973.4
15°	7214.2	7290.4	7219.2	6998.0	6698.3	6361.6	6037.2	5796.5	5619.5	5536.0	5540.9
17.5°	7374.0	7440.3	7251.1	6902.1	6467.3	6034.8	5658.8	5430.3	5290.3	5228.9	5223.9
20°	7573.0	7592.7	7251.1	6735.1	6170.0	5654.0	5295.2	5135.5	5056.8	5024.9	5034.8
22.5°	7786.8	7747.5	7211.8	6499.2	5779.2	5255.9	5015.1	4943.8	4904.5	4899.6	4904.5
25°	8027.6	7917.0	7130.7	6179.7	5371.4	4911.8	4771.8	4784.1	4791.5	4791.5	4808.6
27.5°	8322.4	8101.3	6995.6	5776.8	4894.7	4592.5	4553.1	4639.1	4678.4	4685.8	4698.1
30°	8710.6	8302.8	6771.9	5273.1	4489.3	4304.9	4373.8	4489.3	4533.5	4560.5	4555.6
32.5°	9172.6	8523.9	6469.7	4769.3	4162.4	4103.5	4187.0	4304.9	4354.1	4368.8	4349.2
35°	9715.6	8774.5	6071.7	4297.6	3877.4	3911.8	4010.1	4046.9	4091.2	4091.2	4101.0
37.5°	10300.4	8976.0	5585.1	3865.1	3656.3	3781.6	3852.8	3818.5	3798.8	3774.2	3786.5
40°	10895.1	9125.9	4953.6	3437.6	3435.1	3646.4	3666.1	3567.8	3489.2	3464.6	3452.3
42.5°	11413.6	9219.3	4383.5	3105.8	3226.3	3513.7	3528.5	3371.2	3245.9	3172.2	3147.7
45°	12025.4	9327.4	3825.8	2830.6	3032.2	3408.1	3445.0	3233.6	3049.3	2894.5	2855.2
47.5°	12863.3	9573.1	3386.0	2616.9	2892.1	3341.8	3393.4	3120.6	2877.4	2675.8	2643.9
50°	13809.3	9909.7	3044.5	2471.9	2784.0	3282.8	3346.7	3005.1	2717.6	2494.0	2469.4
52.5°	14676.6	10091.6	2749.6	2341.7	2678.3	3174.7	3285.2	2921.6	2560.3	2312.2	2290.0
55°	15150.9	9796.7	2459.6	2213.9	2533.3	3034.6	3199.3	2806.1	2408.0	2216.4	2184.4
57.5°	15214.8	9187.3	2196.7	2076.3	2381.0	2862.6	3039.5	2666.0	2309.8	2150.0	2123.0
60°	14720.9	8278.2	1992.7	1963.3	2226.2	2668.5	2860.1	2543.2	2209.0	2076.3	2049.3
62.5°	13492.3	7290.4	1850.2	1860.1	2068.9	2464.6	2727.4	2425.2	2113.2	1995.2	1970.7
65°	11379.1	6017.6	1712.7	1754.4	1928.8	2304.8	2607.1	2326.9	2017.3	1933.8	1911.7
67.5°	7904.7	4344.2	1599.6	1643.8	1796.2	2142.7	2467.0	2221.3	1909.2	1865.0	1830.6
70°	4376.2	2673.4	1467.0	1518.6	1658.6	1960.8	2309.8	2061.6	1752.0	1732.3	1683.1
72.5°	2299.9	1702.8	1317.0	1373.5	1471.8	1727.4	2068.9	1887.1	1597.2	1513.6	1449.7
74°	1796.2	1395.7	1216.3	1275.3	1341.6	1589.8	1926.4	1761.8	1486.6	1388.3	1339.2
75°	1565.2	1243.3	1130.3	1206.4	1265.4	1496.4	1815.9	1673.3	1425.1	1331.8	1287.6
77.5°	1105.8	931.3	923.9	1014.8	1046.7	1312.2	1636.5	1523.4	1270.3	1172.1	1130.3
80°	776.5	697.8	732.3	788.7	833.0	1159.8	1518.6	1317.0	1041.9	926.4	911.6
82.5°	506.2	457.0	523.4	575.0	589.8	855.1	1226.1	1000.0	759.3	616.8	572.5
85°	233.4	228.5	299.8	292.4	289.9	417.7	727.3	584.8	437.4	326.8	307.2
87.5°	59.0	56.5	73.7	61.5	73.7	63.9	66.3	17.2	2.4	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)