

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: P647525

Luminaire Tested: **GALN-SA6D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647525
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-SA6D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 35839.5 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

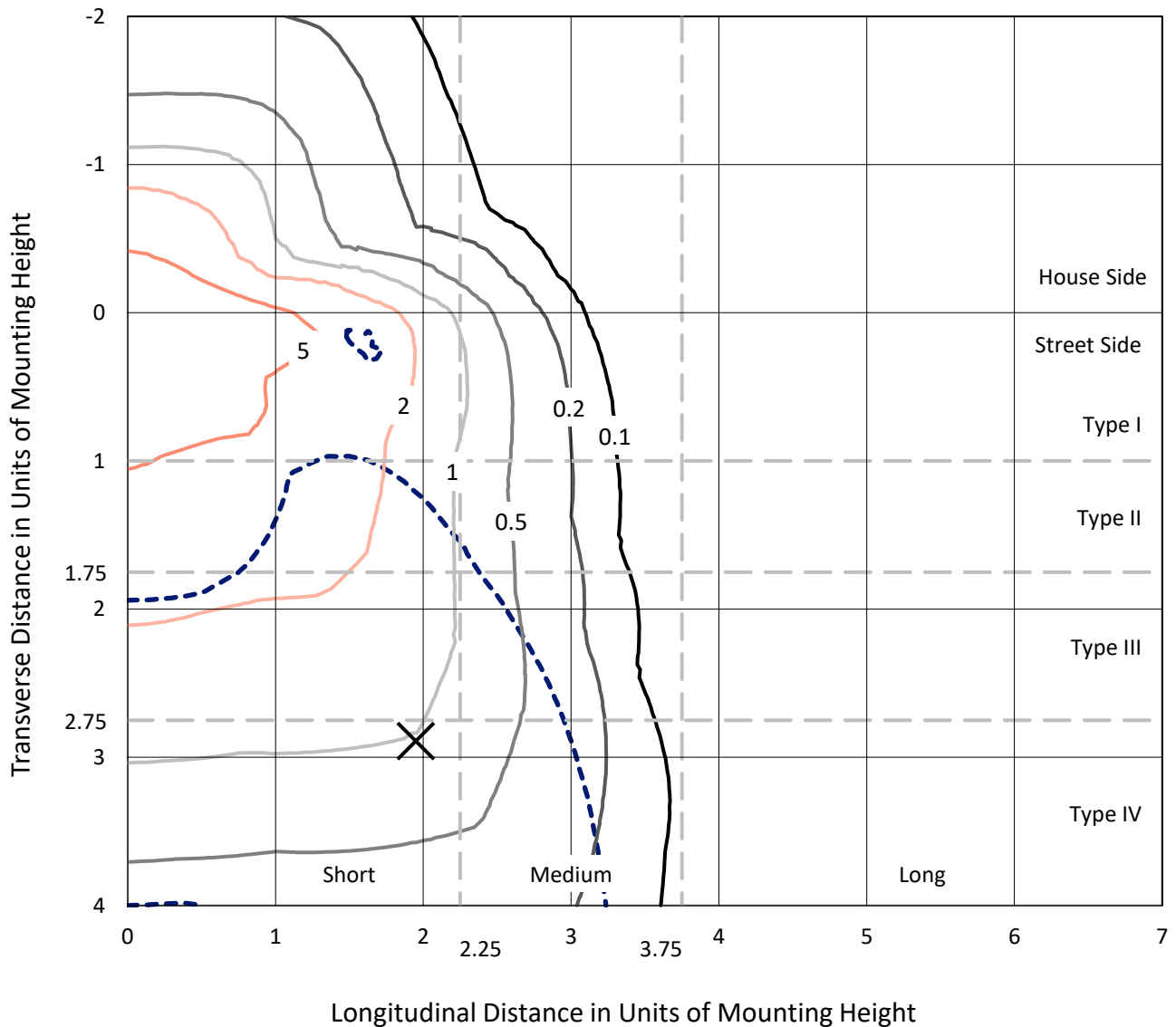
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

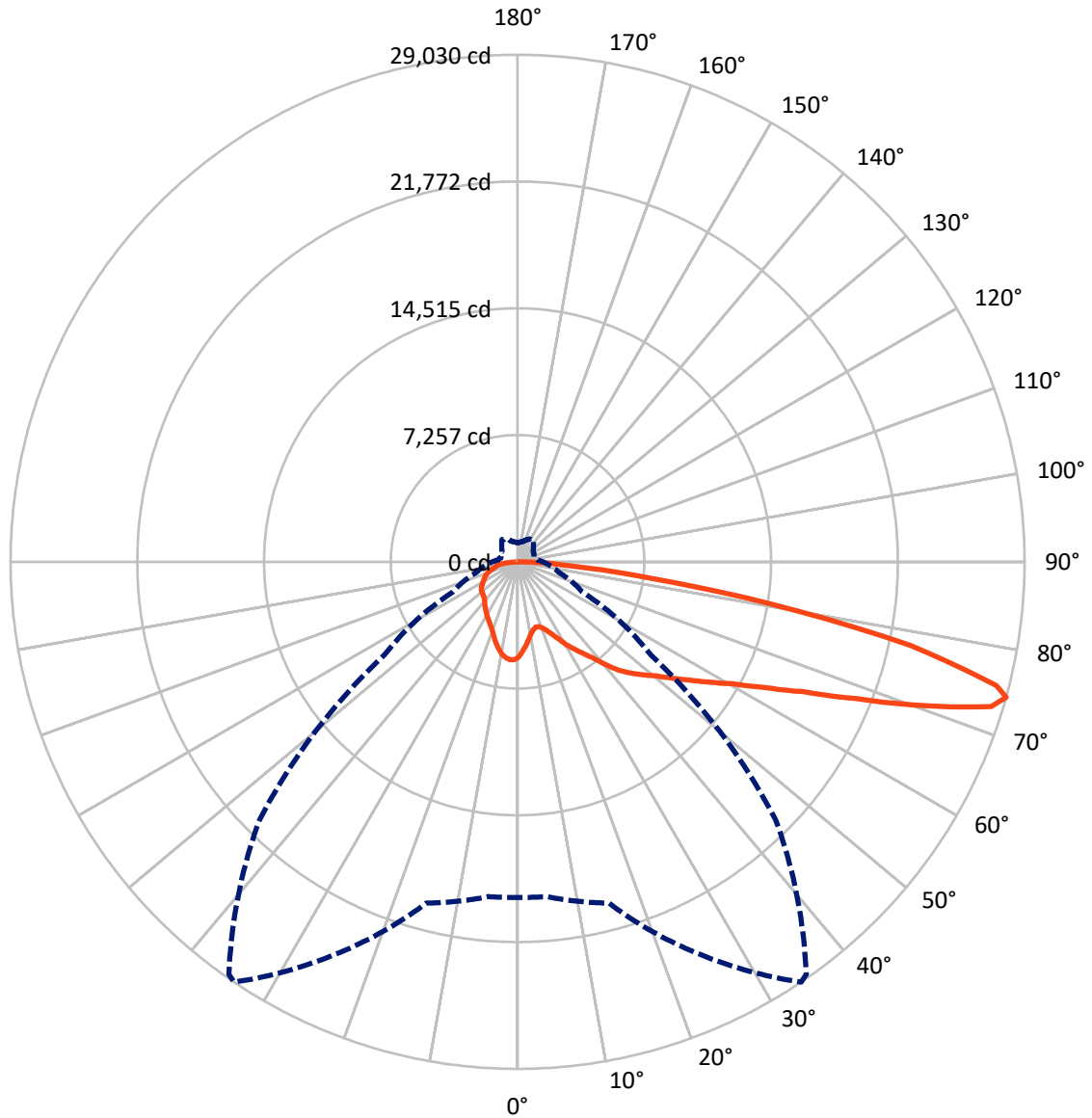
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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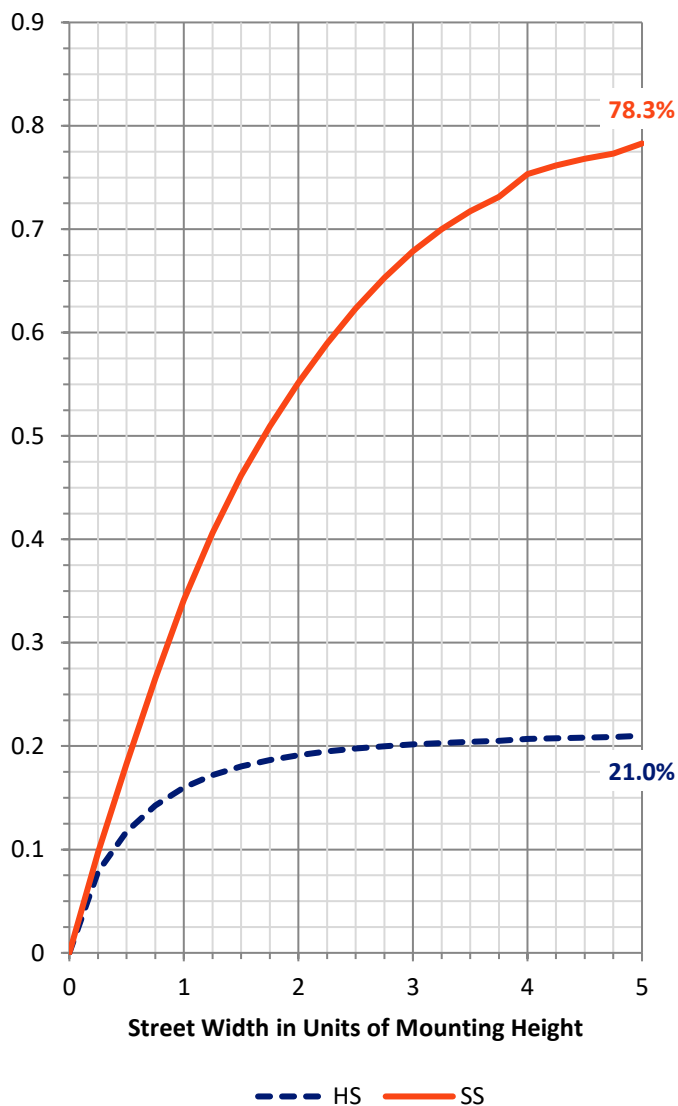
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7626.9	0.0	7626.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28212.6	0.0	28212.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	35839.5	0.0	35839.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	1.4
10°-20°	1362.3	3.8
20°-30°	2246.1	6.3
30°-40°	3364.4	9.4
40°-50°	4890.9	13.6
50°-60°	6831.4	19.1
60°-70°	8552.6	23.9
70°-80°	7072.3	19.7
80°-90°	1021.9	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°	35839.5	100.0
0°-180°	35839.5	100.0

Coefficient of Utilization

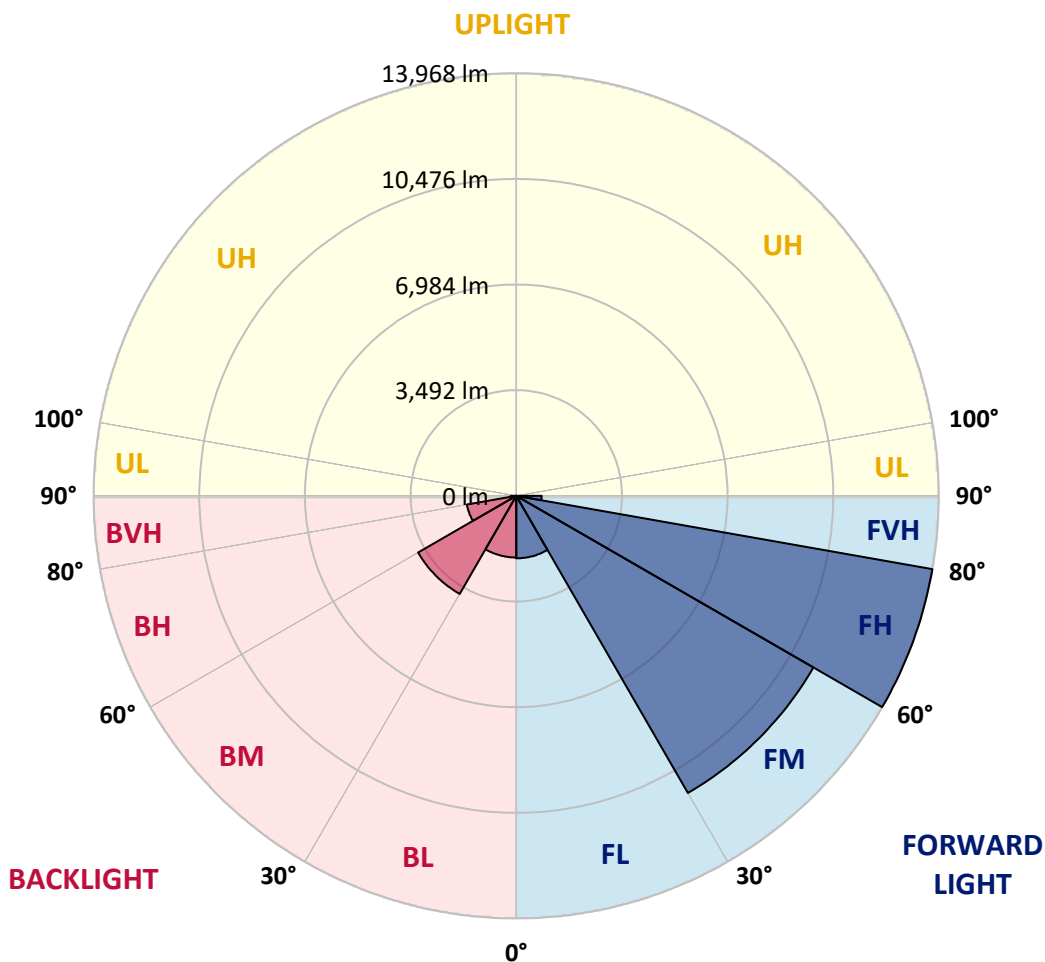


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.0	5.8			
FM (30°-60°)	11341.1	31.6			
FH (60°-80°)	13968.3	39.0			G5
FVH (80°-90°)	837.2	2.3			G5
BL (0°-30°)	2040.1	5.7	B3/2500		
BM (30°-60°)	3745.6	10.5	B3/5000		
BH (60°-80°)	1656.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	184.7	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°	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0
2.5°	5057.0	5082.8	5096.7	5146.3	5158.2	5174.1	5215.9	5271.5	5343.0	5406.5	5462.1
5°	4636.1	4675.8	4699.6	4743.3	4828.7	4836.6	4947.8	5074.9	5219.8	5354.9	5466.0
7.5°	4237.0	4280.7	4300.5	4379.9	4493.2	4511.0	4673.8	4874.3	5116.6	5321.1	5491.8
10°	3937.2	3959.1	4002.7	4062.3	4197.3	4209.3	4421.7	4689.7	5003.4	5305.2	5535.5
12.5°	3774.4	3786.3	3796.2	3859.8	3992.8	4010.7	4233.1	4536.8	4914.0	5317.1	5607.0
15°	3798.3	3802.2	3758.5	3770.5	3877.7	3903.5	4123.8	4435.5	4858.4	5346.9	5714.2
17.5°	3998.8	3984.8	3877.7	3822.1	3897.5	3909.4	4102.0	4395.8	4832.7	5402.5	5825.4
20°	4314.4	4294.6	4110.0	3986.9	4030.5	4040.4	4173.5	4425.6	4858.4	5493.8	5998.1
22.5°	4707.6	4699.6	4419.6	4270.8	4268.8	4268.8	4338.3	4532.9	4935.9	5618.9	6178.8
25°	5257.5	5215.9	4850.5	4657.9	4604.4	4600.4	4592.4	4709.6	5035.2	5751.9	6393.3
27.5°	5821.4	5750.0	5424.3	5128.5	5013.3	4999.5	4947.8	4959.8	5162.2	5902.8	6637.5
30°	6327.7	6282.1	5976.3	5648.7	5511.7	5479.9	5336.9	5271.5	5374.7	6174.8	7026.6
32.5°	6714.9	6687.1	6448.9	6151.0	5948.5	5942.5	5734.1	5680.4	5706.3	6504.5	7471.4
35°	7028.6	7038.5	6917.4	6659.3	6427.0	6393.3	6254.3	6186.7	6111.3	6980.9	8031.2
37.5°	7457.4	7479.3	7471.4	7249.0	6965.1	6973.0	6941.2	6830.0	6629.5	7513.0	8652.7
40°	7930.0	7945.9	7943.9	7858.5	7709.6	7717.6	7705.7	7578.6	7278.8	8190.1	9343.7
42.5°	8583.2	8507.8	8311.2	8396.6	8484.0	8521.7	8603.1	8481.9	8071.0	8912.8	9992.9
45°	9313.9	9170.9	8726.1	8765.9	9089.5	9161.0	9609.7	9442.9	8930.7	9742.7	10757.3
47.5°	9774.5	9633.6	9258.3	9250.4	9679.2	9748.7	10542.9	10481.3	9713.0	10638.2	11690.5
50°	10185.5	10165.7	9742.7	9844.0	10262.9	10366.2	11559.4	11501.9	10493.2	11694.5	12707.1
52.5°	10795.1	10634.2	10296.7	10505.2	11059.1	11194.2	12568.1	12399.4	11210.0	12627.7	13693.8
55°	11069.0	11031.3	11011.5	11192.1	11952.6	12049.9	13548.9	13161.8	11821.6	13417.9	14444.4
57.5°	11801.7	11732.2	11928.8	12051.9	13004.8	13153.8	14573.4	13957.9	12357.6	14045.3	14809.7
60°	12750.8	12713.0	12893.7	13116.0	14180.3	14406.7	15740.9	14636.9	12788.5	14361.0	14609.1
62.5°	14168.4	14164.4	14130.6	14607.2	15846.1	16054.6	17081.1	15298.1	12856.0	14124.7	13572.8
65°	16201.5	16130.0	15836.2	16356.4	17919.0	18163.2	18476.8	15667.4	12448.9	12911.6	11428.4
67.5°	18327.9	18324.0	18085.7	18760.8	20895.2	21147.3	20222.1	15586.0	11319.2	10459.5	8116.7
70°	20091.1	20005.6	20309.5	22108.3	24697.4	24989.2	21748.9	14627.0	9016.1	6907.5	4822.7
72.5°	20514.0	20518.0	21149.3	24689.4	28348.7	28394.3	22298.9	11855.3	6033.9	3810.2	2412.3
74°	19211.5	19245.3	20224.1	24818.5	29029.6	28823.2	20893.2	9317.9	4080.1	2487.8	1739.3
75°	17535.8	17323.3	18738.9	23958.8	28322.8	28100.5	19247.2	7477.3	3113.2	1987.5	1522.9
77.5°	9375.4	9591.8	11775.9	17879.3	23009.7	22753.6	13050.6	3585.7	1681.7	1383.9	1096.0
80°	3337.6	3681.0	5174.1	9355.6	14752.1	14831.5	6228.5	1644.0	1183.3	1020.6	774.3
82.5°	1362.0	1399.8	2221.8	4151.6	7491.2	7562.7	2543.4	976.9	845.8	702.8	462.6
85°	532.1	548.0	982.8	1866.4	3196.6	3405.1	879.5	516.2	520.2	403.1	236.3
87.5°	178.7	202.5	403.1	621.5	1086.0	1064.3	256.1	152.9	186.7	174.7	73.4
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°	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0	5472.0
2.5°	5489.8	5527.6	5553.3	5581.1	5607.0	5615.0	5608.9	5626.9	5628.8	5630.8	5632.8
5°	5521.6	5573.2	5622.9	5650.7	5662.6	5652.6	5618.9	5601.0	5585.1	5573.2	5577.2
7.5°	5565.3	5638.8	5684.4	5696.3	5664.5	5618.9	5535.5	5470.0	5428.3	5400.5	5398.6
10°	5632.8	5704.3	5742.0	5708.2	5620.9	5509.7	5378.7	5255.6	5162.2	5134.4	5132.5
12.5°	5718.2	5799.6	5797.6	5698.4	5545.4	5346.9	5134.4	4991.5	4864.4	4800.9	4826.7
15°	5829.4	5890.9	5833.4	5654.7	5412.4	5140.4	4878.3	4683.7	4540.8	4473.3	4477.3
17.5°	5958.4	6012.0	5859.1	5577.2	5225.7	4876.4	4572.6	4387.9	4274.7	4225.1	4221.2
20°	6119.2	6135.1	5859.1	5442.2	4985.5	4568.6	4278.7	4149.7	4086.1	4060.3	4068.2
22.5°	6292.0	6260.2	5827.4	5251.6	4669.8	4246.9	4052.3	3994.8	3963.0	3959.1	3963.0
25°	6486.5	6397.2	5761.9	4993.5	4340.2	3968.9	3855.8	3865.7	3871.7	3871.7	3885.6
27.5°	6724.8	6546.1	5652.6	4667.9	3955.1	3710.9	3679.1	3748.6	3780.3	3786.3	3796.2
30°	7038.5	6708.9	5472.0	4260.9	3627.5	3478.6	3534.1	3627.5	3663.2	3685.0	3681.0
32.5°	7411.8	6887.7	5227.8	3853.8	3363.4	3315.8	3383.3	3478.6	3518.3	3530.2	3514.3
35°	7850.6	7090.1	4906.1	3472.6	3133.1	3160.9	3240.3	3270.1	3305.8	3305.8	3313.7
37.5°	8323.1	7252.9	4513.0	3123.2	2954.4	3055.7	3113.2	3085.4	3069.5	3049.7	3059.7
40°	8803.6	7374.1	4002.7	2777.7	2775.7	2946.4	2962.3	2882.9	2819.3	2799.5	2789.6
42.5°	9222.6	7449.5	3542.1	2509.7	2606.9	2839.2	2851.1	2724.1	2622.8	2563.2	2543.4
45°	9717.0	7536.8	3091.4	2287.3	2450.1	2753.9	2783.6	2612.9	2463.9	2338.9	2307.1
47.5°	10394.0	7735.4	2736.0	2114.6	2336.9	2700.3	2741.9	2521.6	2325.0	2162.2	2136.3
50°	11158.4	8007.4	2460.0	1997.4	2249.6	2652.6	2704.2	2428.2	2195.9	2015.3	1995.4
52.5°	11859.2	8154.4	2221.8	1892.2	2164.1	2565.3	2654.6	2360.7	2068.8	1868.3	1850.5
55°	12242.4	7916.1	1987.5	1788.9	2047.0	2452.0	2585.1	2267.4	1945.8	1790.9	1765.1
57.5°	12294.1	7423.7	1775.0	1677.7	1923.9	2313.1	2456.0	2154.3	1866.4	1737.3	1715.5
60°	11895.0	6689.1	1610.2	1586.4	1798.9	2156.2	2311.1	2055.0	1784.9	1677.7	1655.9
62.5°	10902.3	5890.9	1495.1	1503.0	1671.8	1991.4	2203.9	1959.7	1707.5	1612.2	1592.4
65°	9194.8	4862.4	1383.9	1417.6	1558.6	1862.4	2106.6	1880.2	1630.0	1562.6	1544.7
67.5°	6387.3	3510.3	1292.6	1328.3	1451.4	1731.4	1993.4	1794.9	1542.7	1507.0	1479.2
70°	3536.1	2160.2	1185.3	1227.0	1340.2	1584.4	1866.4	1665.8	1415.7	1399.8	1360.1
72.5°	1858.4	1376.0	1064.3	1109.9	1189.3	1395.8	1671.8	1524.8	1290.5	1223.0	1171.4
74°	1451.4	1127.8	982.8	1030.4	1084.1	1284.6	1556.6	1423.6	1201.2	1121.8	1082.1
75°	1264.8	1004.7	913.3	974.8	1022.5	1209.2	1467.3	1352.1	1151.6	1076.2	1040.4
77.5°	893.5	752.5	746.5	820.0	845.8	1060.3	1322.3	1231.0	1026.5	947.0	913.3
80°	627.4	563.8	591.6	637.4	673.1	937.2	1227.0	1064.3	841.9	748.5	736.6
82.5°	409.0	369.3	422.9	464.6	476.5	690.9	990.7	808.1	613.5	498.4	462.6
85°	188.6	184.6	242.3	236.3	234.3	337.6	587.7	472.5	353.4	264.1	248.2
87.5°	47.7	45.6	59.6	49.6	59.6	51.6	53.6	13.9	2.0	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)