

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: P950226

Luminaire Tested: **GALN-SB4D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37754 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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

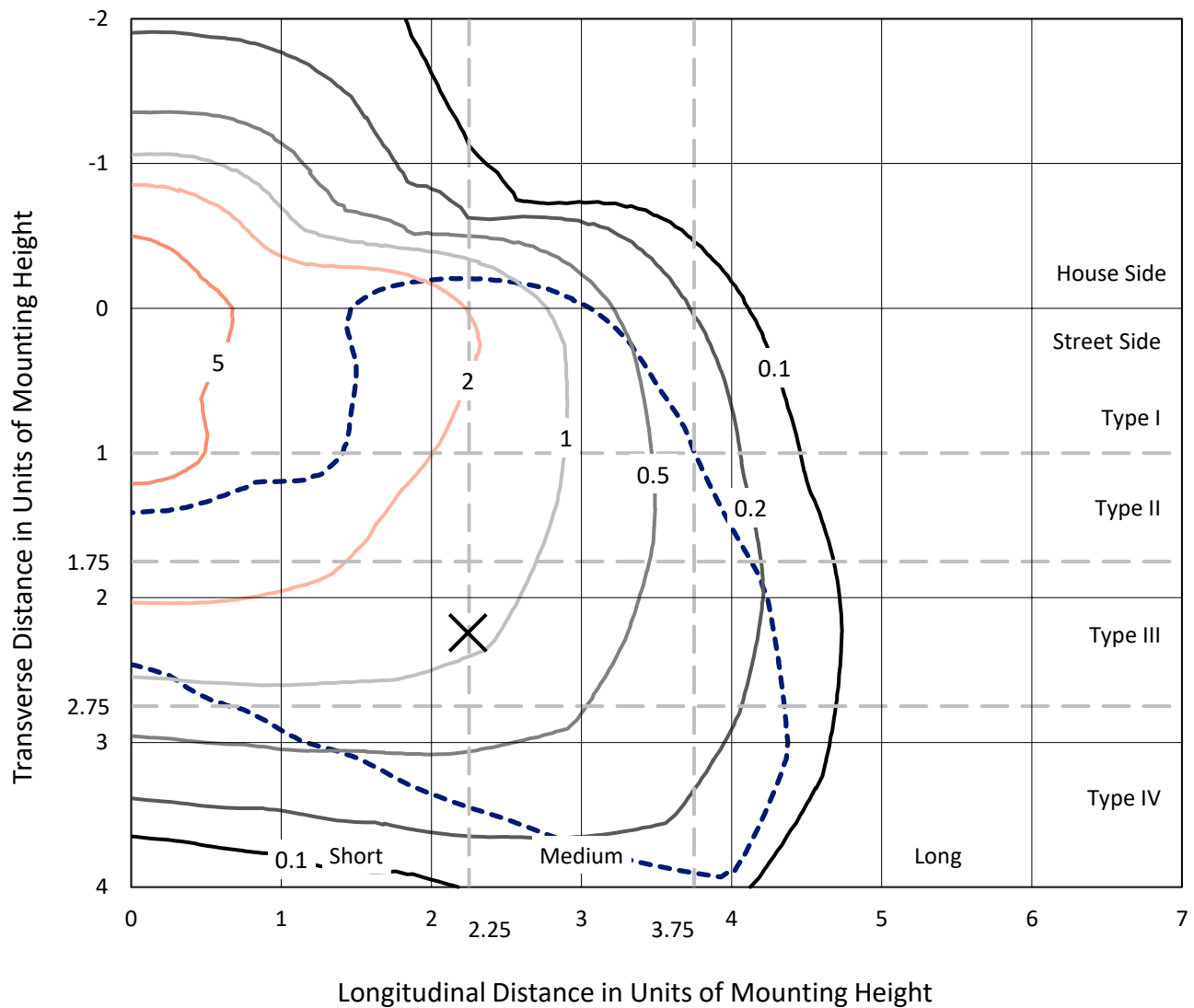


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Iso-Footcandle Lines of Horizontal Illumination

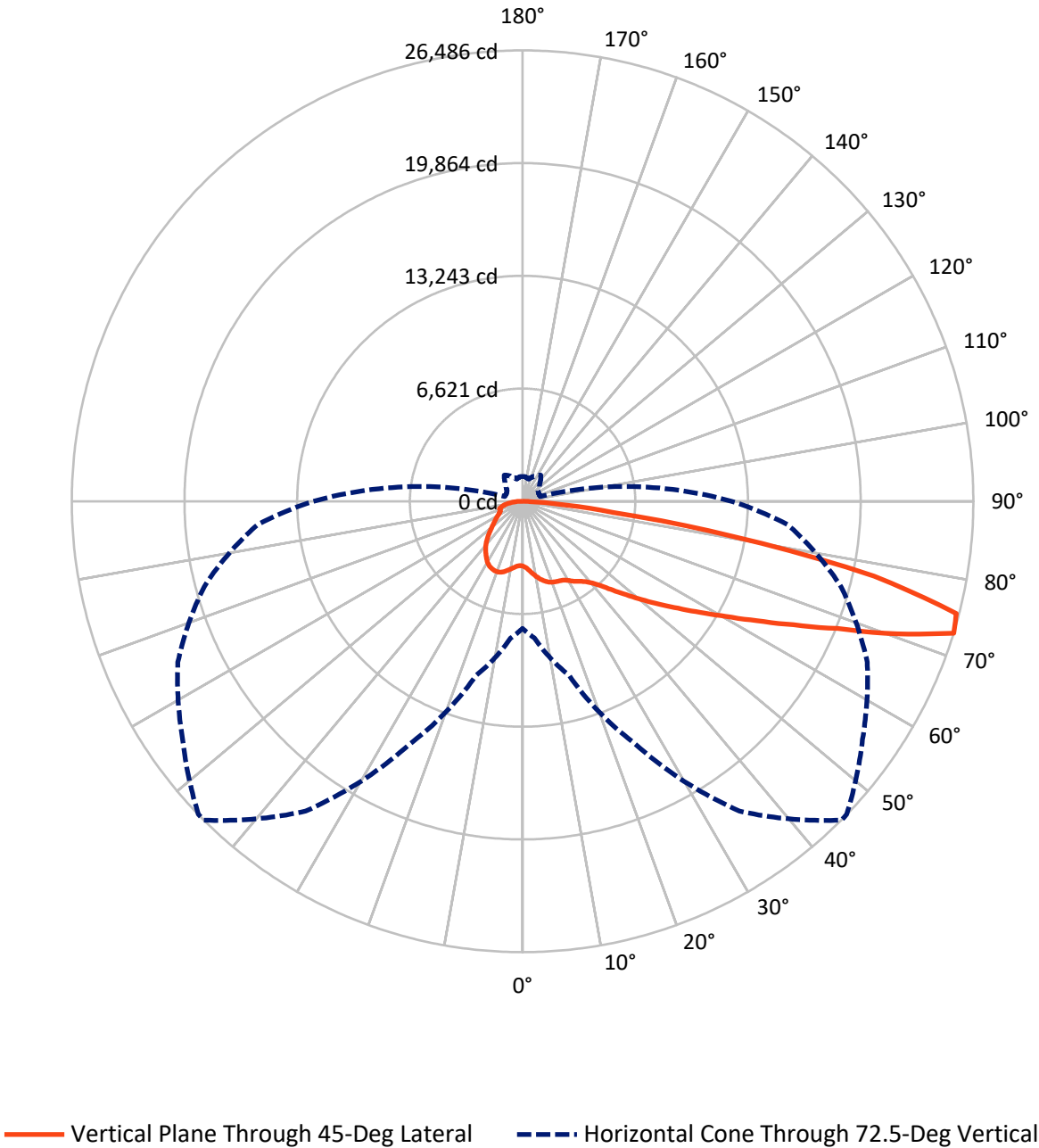
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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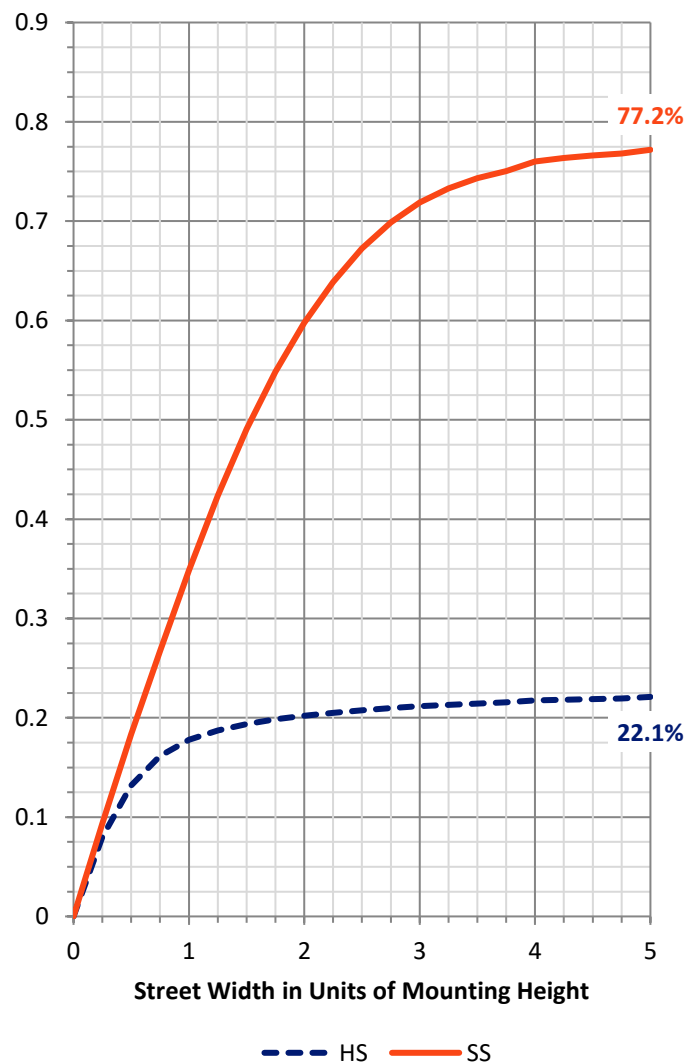
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8534.9	0.0	8534.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29219.1	0.0	29219.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	37754.0	0.0	37754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	1.0
10°-20°	1292.5	3.4
20°-30°	2248.3	6.0
30°-40°	3223.1	8.5
40°-50°	4538.3	12.0
50°-60°	6951.3	18.4
60°-70°	10070.0	26.7
70°-80°	8041.5	21.3
80°-90°	1001.5	2.7
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°	37754.0	100.0
0°-180°	37754.0	100.0

Coefficient of Utilization



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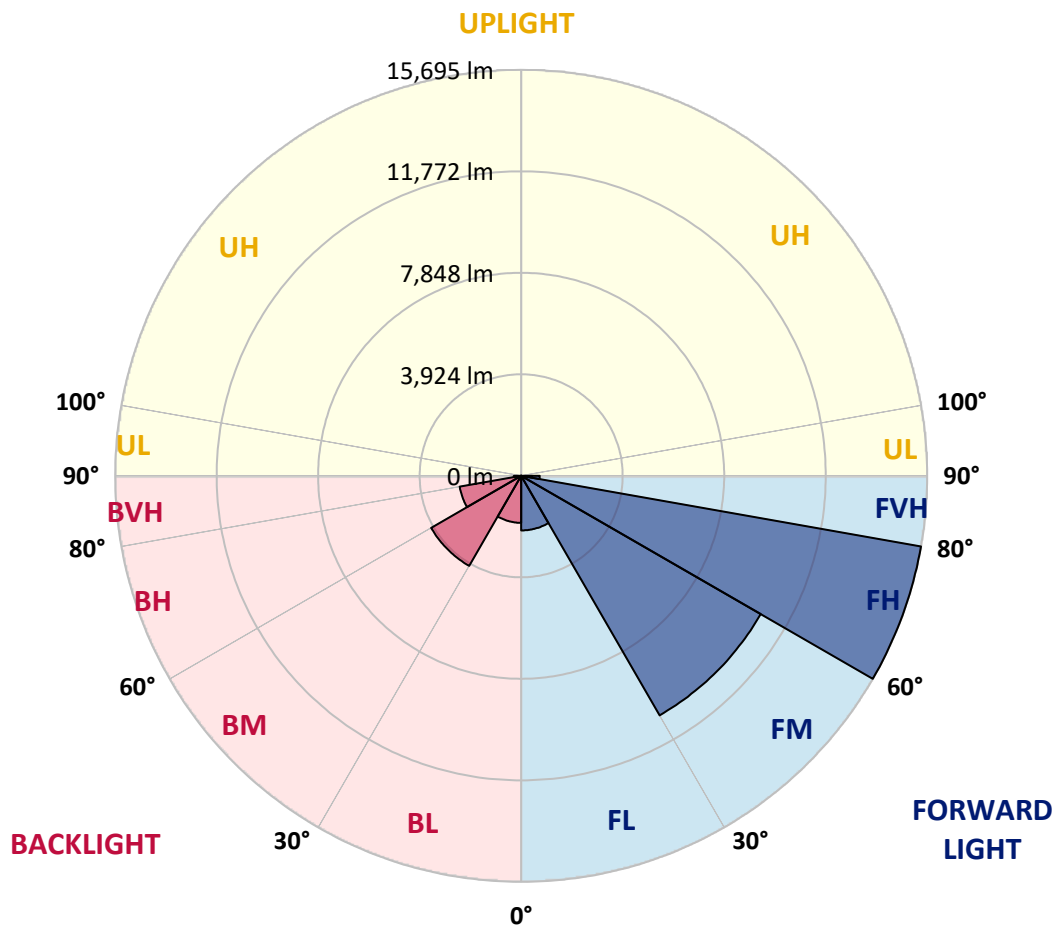
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.3	5.6			
FM	(30°-60°)	10693.9	28.3			
FH	(60°-80°)	15695.4	41.6			G5
FVH	(80°-90°)	718.5	1.9			G4/750
BL	(0°-30°)	1817.1	4.8	B3/2500		
BM	(30°-60°)	4018.7	10.6	B3/5000		
BH	(60°-80°)	2416.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	283.0	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6
2.5°	3957.8	3983.7	3959.8	3937.9	3928.0	3902.1	3900.1	3884.2	3874.3	3846.4	3838.5
5°	4234.3	4268.1	4228.3	4184.5	4144.8	4081.1	4073.2	4027.4	3975.7	3916.0	3882.2
7.5°	4546.5	4576.3	4530.6	4465.0	4395.4	4289.9	4288.0	4204.4	4122.9	4021.5	3963.8
10°	4819.0	4858.8	4797.1	4707.6	4620.1	4500.8	4486.8	4391.4	4288.0	4156.7	4069.2
12.5°	5059.6	5087.5	5027.8	4918.4	4817.0	4697.7	4679.8	4574.4	4459.0	4309.8	4198.5
15°	5250.6	5286.4	5206.8	5089.5	4982.1	4864.7	4848.8	4753.3	4638.0	4480.9	4337.7
17.5°	5375.9	5405.7	5324.1	5192.9	5089.5	4992.0	4980.1	4900.5	4799.1	4640.0	4486.8
20°	5423.6	5455.4	5369.9	5236.6	5141.2	5065.6	5059.6	5002.0	4932.3	4787.2	4632.0
22.5°	5471.3	5501.2	5389.8	5250.6	5167.0	5119.3	5117.3	5079.5	5051.7	4932.3	4781.2
25°	5664.2	5672.2	5523.0	5322.2	5202.8	5161.1	5159.1	5157.1	5169.0	5075.5	4942.3
27.5°	5831.3	5829.3	5702.0	5513.1	5328.1	5240.6	5238.6	5258.5	5296.3	5218.7	5109.4
30°	6075.9	6054.1	5902.9	5706.0	5537.0	5401.7	5389.8	5371.9	5401.7	5340.1	5276.4
32.5°	6595.0	6525.4	6280.8	5930.7	5710.0	5606.6	5590.7	5479.3	5491.2	5453.4	5421.6
35°	7338.8	7247.4	6921.2	6356.4	5924.8	5777.6	5769.6	5628.4	5604.6	5570.8	5582.7
37.5°	8223.9	8110.5	7730.7	6972.9	6294.7	5976.5	5964.6	5837.3	5739.8	5704.0	5771.6
40°	9112.9	8969.7	8655.5	7724.7	6839.6	6308.6	6270.8	6077.9	5966.5	5906.9	6050.1
42.5°	9976.1	9856.7	9588.2	8568.0	7511.9	6793.9	6710.4	6380.2	6296.7	6241.0	6499.6
45°	10739.8	10632.4	10435.5	9468.9	8299.5	7454.2	7372.7	6833.7	6807.8	6807.8	7181.7
47.5°	11360.3	11336.4	11127.6	10387.8	9228.3	8206.0	8064.8	7464.1	7533.8	7641.2	8150.3
50°	12048.4	11982.8	11760.1	11292.7	10320.1	9067.2	8951.8	8237.8	8498.3	8792.7	9550.4
52.5°	12680.9	12716.7	12468.1	12235.4	11553.2	10027.8	9824.9	9150.7	9713.5	10200.8	11191.2
55°	13331.2	13333.2	13263.6	13231.8	12846.0	11089.8	10867.1	10248.5	11143.5	11748.1	13104.5
57.5°	13941.8	13945.8	14049.2	14329.6	14345.6	12314.9	12062.4	11597.0	12732.6	13349.1	15077.5
60°	14486.8	14514.6	14797.0	15453.3	15664.2	13719.1	13480.4	13190.0	14375.4	14995.9	17151.8
62.5°	14669.7	14771.2	15399.6	16332.4	16966.9	15441.4	15206.7	15033.7	16101.7	16678.5	18886.1
65°	14359.5	14592.2	15807.4	17058.3	18307.3	17487.9	17255.2	17066.3	17895.7	18438.6	20310.1
67.5°	13597.8	13898.1	15783.5	17820.1	19934.2	19950.1	19733.3	19289.8	19818.9	20027.7	20773.5
70°	11591.0	12040.5	14393.3	18104.5	21801.8	23317.3	23108.4	21966.8	21738.1	20727.8	19468.8
72.5°	7468.1	8072.7	10598.6	15763.6	22217.4	26485.5	26473.6	24383.3	22344.7	19367.4	15614.4
75°	2724.7	3094.6	4924.4	9894.5	18649.4	26324.4	26402.0	23969.6	20397.6	14960.1	9727.5
77.5°	992.4	1085.9	1607.0	3802.7	11469.7	21121.6	21282.7	19162.5	14518.6	7507.9	3854.4
80°	521.1	572.8	823.4	1475.7	4914.4	12543.7	12796.2	11388.1	6823.7	2261.3	1155.5
82.5°	288.4	312.2	461.4	801.5	2213.6	5363.9	5515.1	4498.8	2400.5	958.6	477.3
85°	155.1	165.1	216.8	437.5	1081.9	1859.6	1901.3	1344.5	956.6	562.8	230.7
87.5°	45.7	55.7	71.6	139.2	423.6	417.7	427.6	266.5	377.9	284.4	75.6
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°	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6	3808.6
2.5°	3826.5	3820.6	3798.7	3788.8	3776.8	3774.8	3784.8	3786.8	3788.8	3790.7	3798.7
5°	3862.3	3842.5	3822.6	3810.6	3814.6	3816.6	3836.5	3850.4	3860.4	3868.3	3872.3
7.5°	3932.0	3916.0	3882.2	3880.2	3886.2	3904.1	3930.0	3961.8	3979.7	3993.6	3997.6
10°	4035.4	4005.5	3965.8	3971.7	3983.7	4009.5	4063.2	4089.1	4118.9	4144.8	4138.8
12.5°	4140.8	4114.9	4069.2	4073.2	4093.0	4138.8	4190.5	4222.3	4242.2	4262.1	4270.1
15°	4278.0	4232.3	4182.5	4182.5	4218.3	4268.1	4291.9	4317.8	4329.7	4351.6	4359.6
17.5°	4419.2	4359.6	4293.9	4289.9	4333.7	4357.6	4371.5	4375.5	4379.4	4403.3	4411.3
20°	4560.4	4494.8	4401.3	4393.4	4403.3	4399.3	4397.3	4393.4	4399.3	4429.2	4441.1
22.5°	4699.6	4624.1	4494.8	4459.0	4431.2	4393.4	4391.4	4389.4	4393.4	4423.2	4443.1
25°	4862.7	4771.2	4598.2	4490.8	4397.3	4345.6	4351.6	4353.6	4357.6	4381.4	4413.3
27.5°	5039.7	4938.3	4693.7	4480.9	4311.8	4276.0	4266.1	4272.0	4286.0	4323.8	4361.5
30°	5216.7	5097.4	4781.2	4441.1	4204.4	4154.7	4122.9	4136.8	4180.6	4218.3	4260.1
32.5°	5377.8	5258.5	4850.8	4353.6	4067.2	3989.6	3947.9	3965.8	4009.5	4023.4	4073.2
35°	5566.8	5431.5	4880.6	4214.4	3918.0	3798.7	3743.0	3717.2	3739.0	3725.1	3768.9
37.5°	5777.6	5636.4	4876.7	4031.4	3743.0	3605.8	3528.2	3430.8	3385.0	3337.3	3367.1
40°	6089.9	5887.0	4828.9	3810.6	3526.2	3400.9	3261.7	3096.6	2993.2	2899.7	2905.7
42.5°	6515.5	6235.0	4741.4	3568.0	3281.6	3164.3	2975.3	2782.4	2619.3	2464.2	2450.3
45°	7149.9	6690.5	4632.0	3309.4	3017.1	2901.7	2696.9	2480.1	2295.1	2096.2	2072.4
47.5°	8064.8	7303.0	4528.6	3015.1	2738.6	2633.2	2448.3	2247.4	2028.6	1835.7	1813.8
50°	9321.7	8182.1	4433.1	2728.7	2464.2	2384.6	2237.5	2032.6	1811.8	1656.7	1646.8
52.5°	10920.8	9377.4	4393.4	2452.2	2207.6	2177.8	2060.4	1869.5	1660.7	1529.4	1519.5
55°	12756.5	10807.4	4393.4	2187.7	1982.9	1992.8	1911.3	1734.3	1553.3	1435.9	1424.0
57.5°	14630.0	12255.3	4313.8	1943.1	1792.0	1833.7	1782.0	1626.9	1463.8	1342.5	1322.6
60°	16356.3	13468.5	3991.6	1720.4	1622.9	1688.5	1654.7	1521.5	1322.6	1221.2	1205.2
62.5°	17682.8	14152.6	3371.1	1543.3	1483.7	1559.3	1541.4	1382.2	1296.7	1255.0	1241.0
65°	18347.1	14041.3	2577.5	1386.2	1366.3	1483.7	1445.9	1439.9	1372.3	1324.6	1308.7
67.5°	17939.4	13082.6	1869.5	1270.9	1298.7	1414.1	1559.3	1583.1	1457.8	1364.3	1348.4
70°	16151.4	11348.4	1392.2	1161.5	1213.2	1416.1	1778.0	1656.7	1430.0	1320.6	1302.7
72.5°	12287.1	8462.5	1079.9	1046.1	1101.8	1426.0	1875.5	1622.9	1350.4	1459.8	1447.9
75°	7026.6	4645.9	867.1	904.9	962.6	1332.5	1825.8	1535.4	1288.8	1340.5	1340.5
77.5°	2679.0	1786.0	716.0	765.7	773.7	1163.5	1746.2	1529.4	1227.1	1197.3	1091.9
80°	928.8	698.1	592.7	608.6	598.6	1034.2	1674.6	1330.5	1004.4	899.0	869.1
82.5°	379.9	348.0	469.4	449.5	425.6	803.5	1352.4	1087.9	821.4	725.9	718.0
85°	165.1	220.8	310.3	272.5	246.6	556.9	1083.9	920.8	694.1	598.6	596.7
87.5°	33.8	83.5	131.3	123.3	127.3	371.9	769.7	654.3	491.2	367.9	288.4
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)