

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: P647386

Luminaire Tested: **GALN-SA4D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23750 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

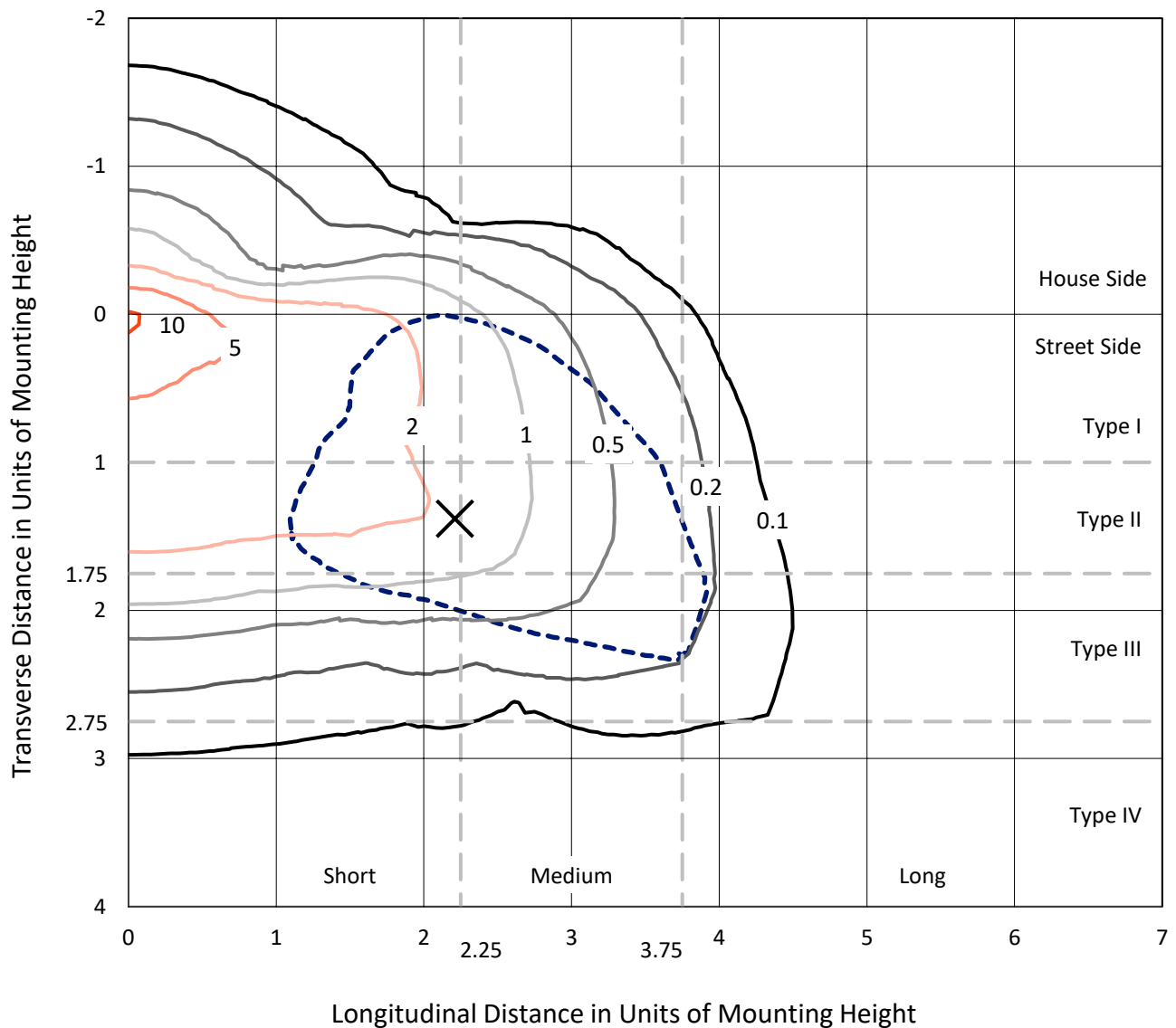
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

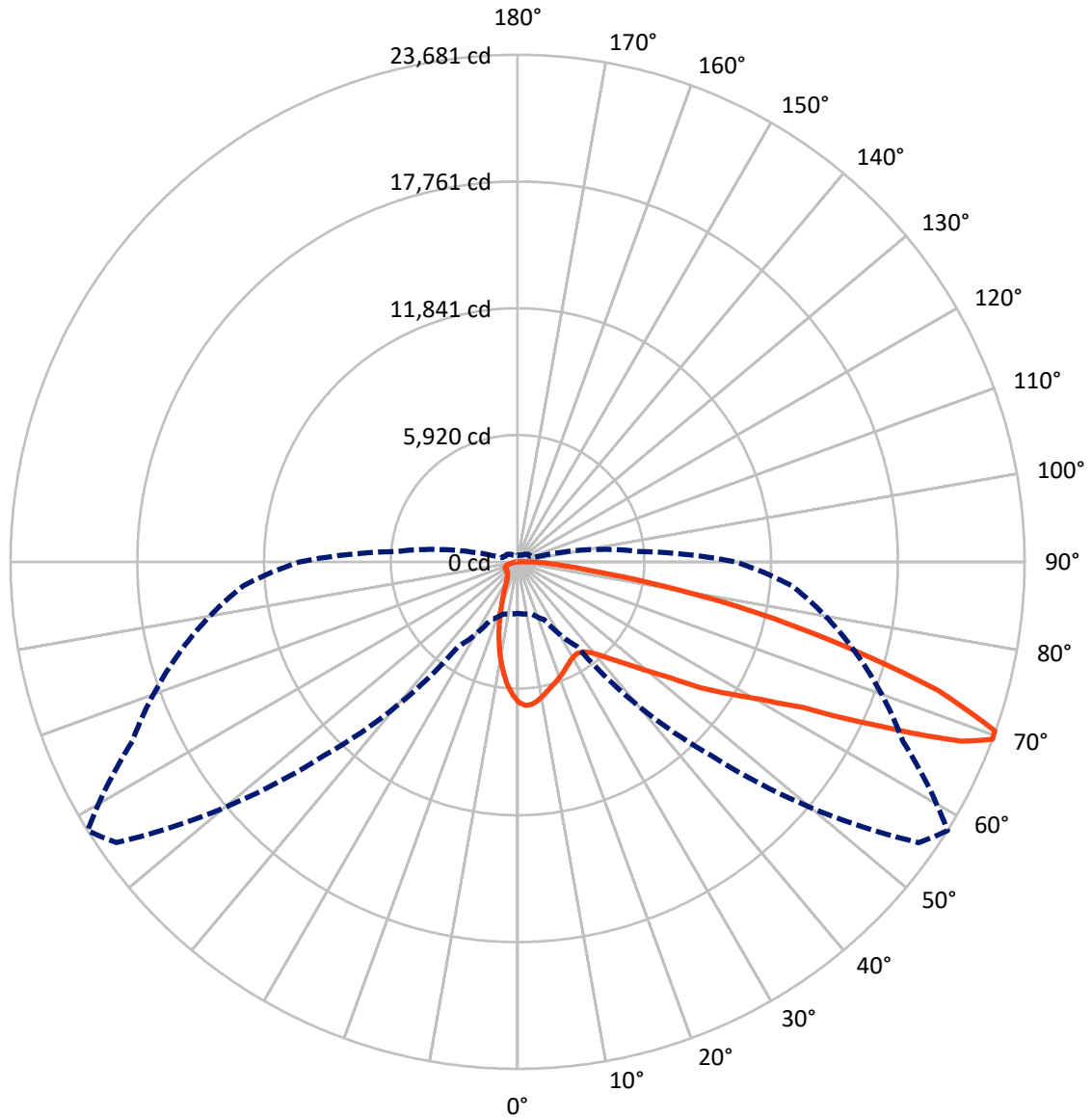
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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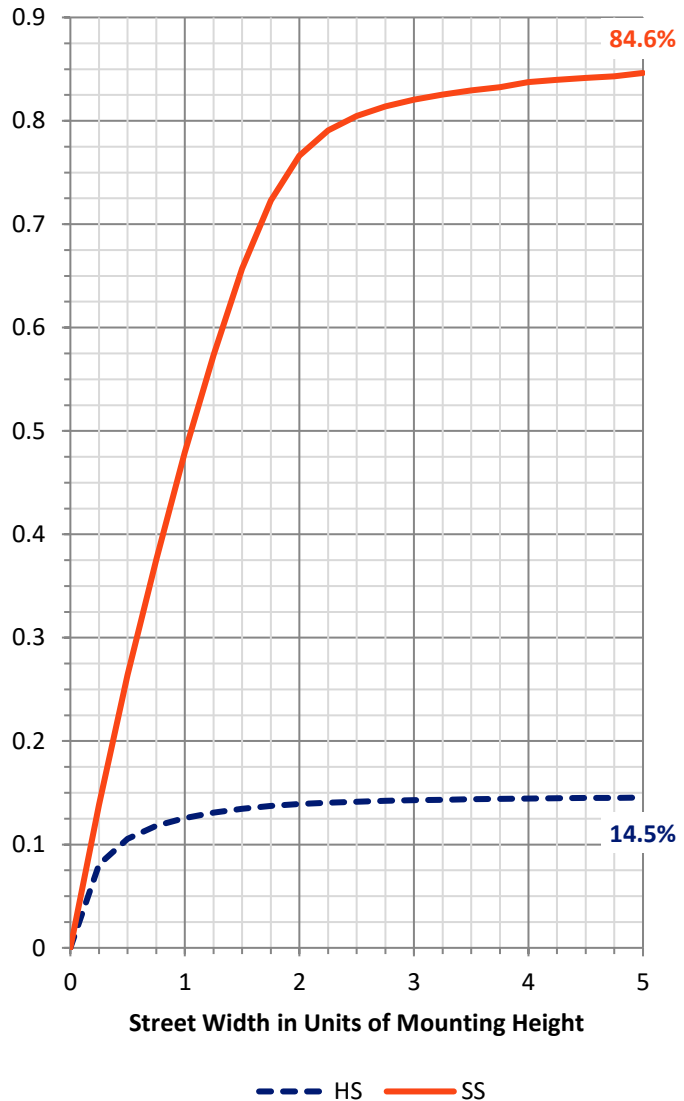
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3480.6	0.0	3480.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20269.4	0.0	20269.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	23750.0	0.0	23750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.4	2.3
10°-20°	1223.9	5.2
20°-30°	1581.3	6.7
30°-40°	2053.8	8.6
40°-50°	2985.9	12.6
50°-60°	4764.5	20.1
60°-70°	6364.8	26.8
70°-80°	3669.0	15.4
80°-90°	549.5	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°	23750.0	100.0
0°-180°	23750.0	100.0

Coefficient of Utilization



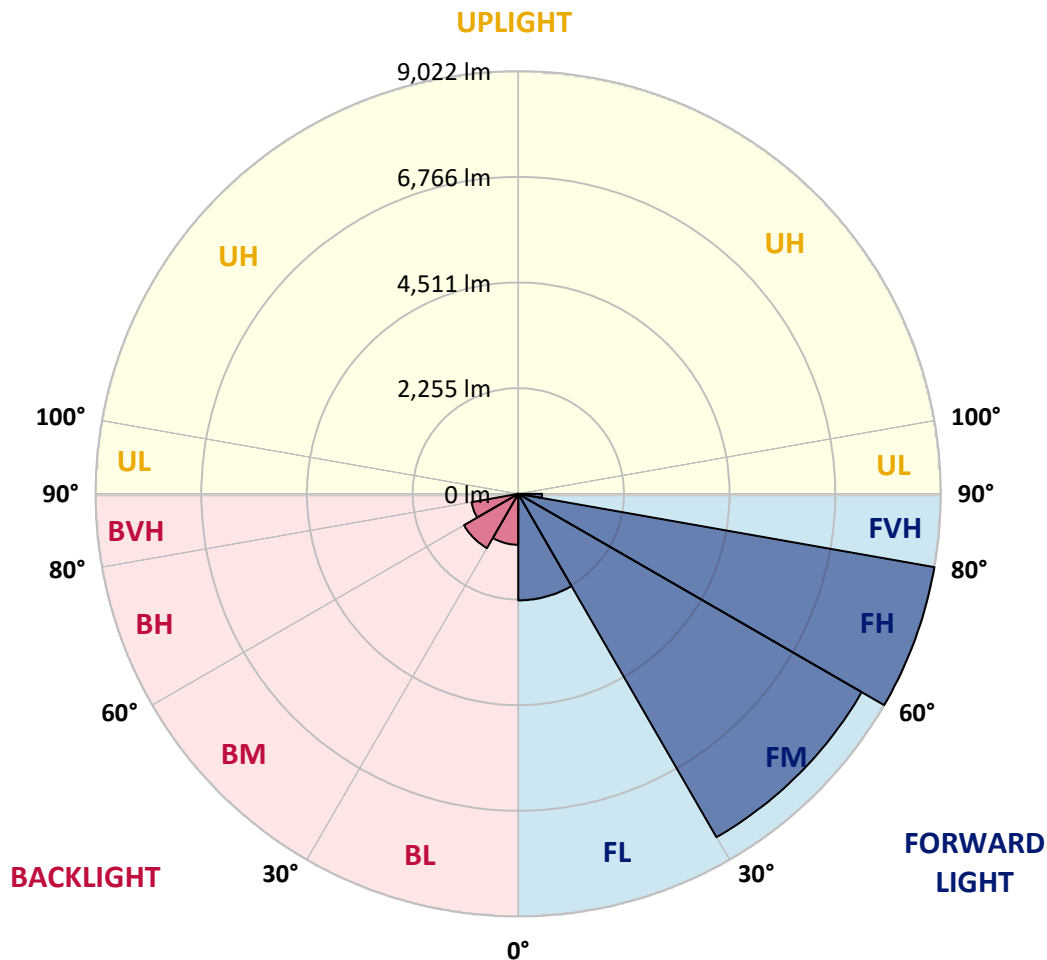
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2274.6	9.6			
FM (30°-60°)	8465.6	35.6			
FH (60°-80°)	9021.7	38.0			G4/12000
FVH (80°-90°)	507.4	2.1			G4/750
BL (0°-30°)	1087.9	4.6	B3/2500		
BM (30°-60°)	1338.5	5.6	B2/2500		
BH (60°-80°)	1012.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	42.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1
2.5°	6806.8	6825.3	6820.1	6813.4	6802.9	6773.7	6726.0	6718.1	6687.6	6622.7	6541.9
5°	6702.2	6718.1	6719.4	6728.6	6741.9	6736.6	6702.2	6698.2	6653.2	6565.8	6430.6
7.5°	6343.2	6364.4	6410.8	6462.4	6508.8	6552.5	6563.1	6569.7	6541.9	6441.3	6261.1
10°	5939.2	5960.4	5981.7	6058.5	6172.4	6281.0	6371.0	6382.9	6389.6	6296.9	6077.0
12.5°	5491.6	5535.3	5580.3	5694.2	5846.5	6017.4	6176.3	6201.5	6246.5	6176.3	5918.1
15°	5111.4	5156.4	5221.4	5323.3	5507.5	5753.8	5977.7	6018.7	6107.5	6071.7	5769.7
17.5°	4847.8	4863.7	4908.8	5025.3	5224.0	5483.6	5782.9	5865.1	6006.8	5997.5	5642.5
20°	4639.9	4659.7	4687.6	4759.1	4965.7	5239.9	5601.5	5707.4	5899.5	5931.3	5516.7
22.5°	4552.4	4567.0	4563.0	4601.5	4741.8	5017.4	5417.3	5543.2	5804.1	5886.3	5400.1
25°	4557.8	4571.0	4551.1	4541.9	4625.3	4821.3	5225.4	5385.6	5727.3	5855.8	5294.2
27.5°	4646.5	4655.8	4618.7	4581.6	4588.2	4699.5	5066.4	5243.8	5662.4	5869.1	5205.5
30°	4765.7	4782.9	4759.1	4714.1	4665.0	4670.4	4964.4	5139.2	5632.0	5915.4	5163.0
32.5°	4919.4	4935.2	4924.7	4888.9	4825.3	4755.1	4939.2	5100.8	5634.6	6009.4	5153.8
35°	5081.0	5112.8	5130.0	5127.3	5075.6	4953.8	5038.5	5172.3	5698.2	6167.1	5208.1
37.5°	5263.7	5290.2	5364.4	5412.1	5364.4	5222.7	5262.4	5355.1	5838.6	6394.9	5327.3
40°	5441.2	5480.9	5589.5	5737.9	5719.3	5594.8	5604.2	5665.1	6086.3	6734.0	5560.4
42.5°	5626.6	5674.3	5863.7	6083.6	6127.3	6030.7	6055.8	6110.1	6438.6	7204.1	5960.4
45°	5865.1	5922.0	6155.2	6429.3	6601.5	6541.9	6613.5	6639.9	6910.1	7816.1	6487.6
47.5°	6172.4	6238.6	6526.0	6867.8	7111.4	7165.8	7290.3	7274.4	7494.2	8540.7	7171.0
50°	6690.3	6727.4	6998.8	7347.2	7682.3	7927.4	8062.5	8087.6	8218.8	9245.3	7935.3
52.5°	7306.2	7339.3	7535.3	7839.9	8259.9	8779.1	9112.9	9030.7	9062.5	10103.6	8829.4
55°	7998.9	8054.6	8179.1	8381.7	8926.0	9690.3	10360.6	10380.4	10028.1	10924.8	9686.3
57.5°	8535.3	8629.4	8842.7	9131.3	9821.5	10703.6	11604.3	11617.5	11167.2	11801.7	10632.1
60°	8265.1	8376.4	8863.8	9567.2	10996.3	12471.9	13090.4	13014.9	12275.9	12800.3	11785.8
62.5°	7099.5	7119.4	7828.0	8927.4	11358.0	14837.5	15302.4	14983.2	13755.4	14066.6	12957.9
65°	4594.8	4724.6	5286.3	6826.7	10169.8	16150.2	19178.0	18440.3	15829.6	15503.7	13939.4
67.5°	2900.8	2867.7	3100.8	3898.1	6994.9	14993.8	22485.4	22368.8	18542.2	16411.1	13705.0
69°	2405.4	2442.5	2521.9	2988.2	4813.4	12801.7	22876.1	23681.4	19857.5	16339.6	12853.3
70°	2181.5	2198.7	2282.2	2649.0	3714.0	10722.2	22235.1	23645.7	20374.1	16040.1	12236.1
72.5°	1731.2	1729.9	1872.9	2204.1	2776.2	6120.7	18257.4	20529.1	19796.6	14646.8	10110.3
75°	1315.3	1336.4	1494.1	1864.9	2557.7	3344.4	12740.7	15809.7	15811.0	11568.5	6308.8
77.5°	948.4	961.6	1145.8	1565.6	2409.4	2711.4	8486.3	11339.4	10659.9	5300.8	1982.9
80°	621.2	629.1	769.5	1239.8	2172.3	2557.7	5031.9	6940.6	5028.0	1406.7	655.7
82.5°	340.4	380.1	470.2	802.7	1743.1	2363.0	3058.4	3512.7	1886.2	626.5	341.7
85°	170.9	181.5	264.9	468.9	1139.1	1955.0	2129.8	2014.7	973.5	311.2	177.5
87.5°	50.3	63.6	109.9	181.5	462.3	1018.6	1185.5	1063.6	374.8	112.6	37.1
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°	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1
2.5°	6508.8	6485.0	6379.0	6283.7	6196.2	6103.5	6025.3	5956.4	5963.1	5964.4	5894.2
5°	6360.5	6306.1	6104.8	5916.7	5757.8	5556.5	5384.2	5273.0	5217.4	5143.2	5169.7
7.5°	6159.1	6054.5	5775.0	5462.4	5169.7	4908.8	4625.3	4430.6	4306.1	4185.5	4201.4
10°	5951.2	5782.9	5376.3	4963.0	4584.2	4167.0	3805.4	3495.5	3265.0	3178.9	3122.0
12.5°	5737.9	5516.7	5000.2	4450.5	3927.3	3427.9	2915.3	2582.9	2328.6	2193.4	2210.6
15°	5543.2	5274.3	4608.1	3937.9	3258.4	2663.7	2152.4	1835.8	1658.3	1621.2	1642.4
17.5°	5363.1	5010.7	4241.2	3439.8	2646.5	1997.4	1617.3	1438.4	1367.0	1347.1	1345.7
20°	5177.7	4786.9	3829.3	2907.4	2062.3	1548.4	1327.2	1243.7	1230.5	1238.5	1239.8
22.5°	4989.5	4510.1	3405.4	2378.9	1642.4	1266.3	1160.3	1137.8	1148.3	1166.9	1169.6
25°	4816.0	4266.3	2997.4	1915.3	1311.3	1112.6	1061.0	1061.0	1084.8	1112.6	1114.0
27.5°	4672.9	4030.6	2590.8	1520.6	1098.1	1001.4	984.2	993.4	1026.5	1047.7	1049.1
30°	4555.1	3810.7	2206.7	1218.6	965.6	912.6	908.7	924.6	948.4	968.3	969.6
32.5°	4466.4	3617.3	1847.7	1023.9	874.2	845.1	843.8	855.7	868.9	874.2	879.5
35°	4431.9	3457.0	1519.3	900.7	813.3	794.7	794.7	793.4	798.7	801.3	804.0
37.5°	4459.7	3333.9	1264.9	821.2	768.2	755.0	747.1	739.1	736.4	736.4	737.7
40°	4577.6	3268.9	1075.5	769.5	736.4	716.6	702.0	692.7	683.5	686.1	688.7
42.5°	4828.0	3280.8	947.0	735.2	708.6	680.8	659.6	649.0	642.4	650.4	649.0
45°	5226.6	3400.1	864.9	711.3	680.8	645.0	625.1	614.6	614.6	626.5	630.5
47.5°	5784.3	3628.0	821.2	692.7	659.6	617.2	597.4	589.4	592.1	611.9	613.2
50°	6465.1	4023.9	813.3	683.5	649.0	597.4	574.9	566.9	573.5	594.7	597.4
52.5°	7216.1	4533.9	851.7	684.8	639.8	585.4	556.3	544.4	551.0	568.2	573.5
55°	8106.2	5172.3	951.0	690.1	626.5	578.8	543.1	516.5	524.5	536.4	537.8
57.5°	9014.8	5977.7	1125.9	691.4	615.9	566.9	520.5	486.1	486.1	494.1	498.1
60°	10124.8	6854.5	1356.3	692.7	617.2	549.7	490.1	451.6	446.4	450.4	451.6
62.5°	11226.8	7588.3	1394.8	688.7	630.5	532.4	457.0	417.3	407.9	406.6	403.9
65°	11712.9	7451.9	1143.1	670.2	645.0	521.9	430.5	384.1	368.2	362.9	362.9
67.5°	10920.8	6303.5	859.7	645.0	635.8	511.3	405.3	356.3	337.8	327.1	327.1
69°	10176.4	5606.7	772.2	627.8	611.9	494.1	389.4	341.7	319.2	307.3	303.3
70°	9601.6	5127.3	735.2	613.2	589.4	474.2	377.5	331.1	306.0	292.7	290.1
72.5°	7662.4	4022.7	643.7	557.7	502.0	398.7	335.1	298.0	274.2	259.6	255.6
75°	4416.0	2180.2	533.8	484.8	403.9	309.9	283.4	259.6	241.1	227.9	223.9
77.5°	1359.0	842.4	386.8	382.8	296.7	239.8	226.5	217.2	204.0	189.4	186.7
80°	572.2	429.2	262.2	258.3	197.4	166.9	162.9	161.6	156.3	144.4	140.4
82.5°	313.9	242.4	182.8	158.9	119.2	96.7	100.7	102.0	98.0	86.1	78.1
85°	153.6	132.5	88.7	71.5	54.3	34.5	33.1	39.7	37.1	26.5	29.1
87.5°	30.5	37.1	23.8	10.6	5.3	0.0	0.0	0.0	0.0	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)