

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: P651643

Luminaire Tested: **GALN-SA9D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43302.3 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

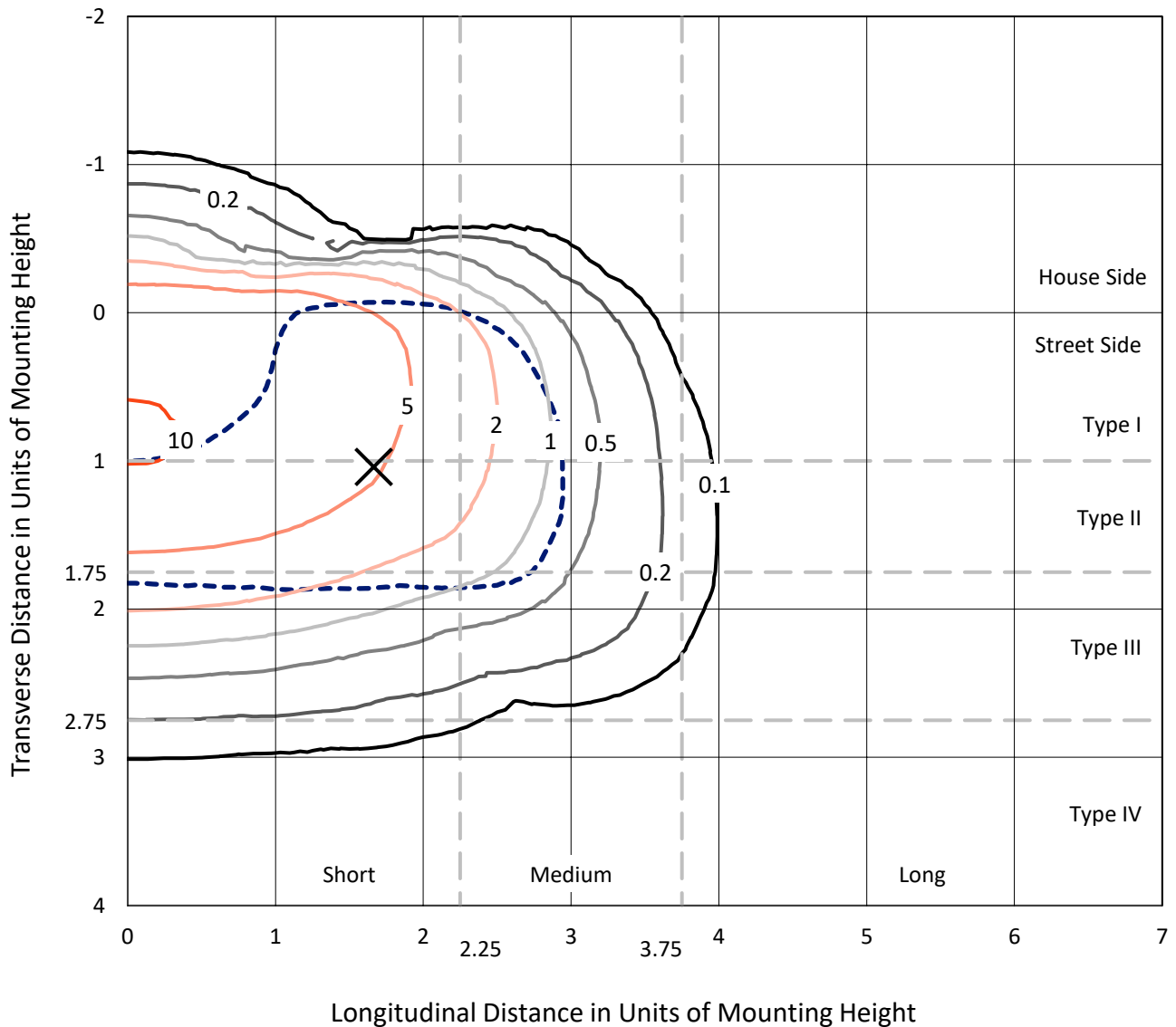
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

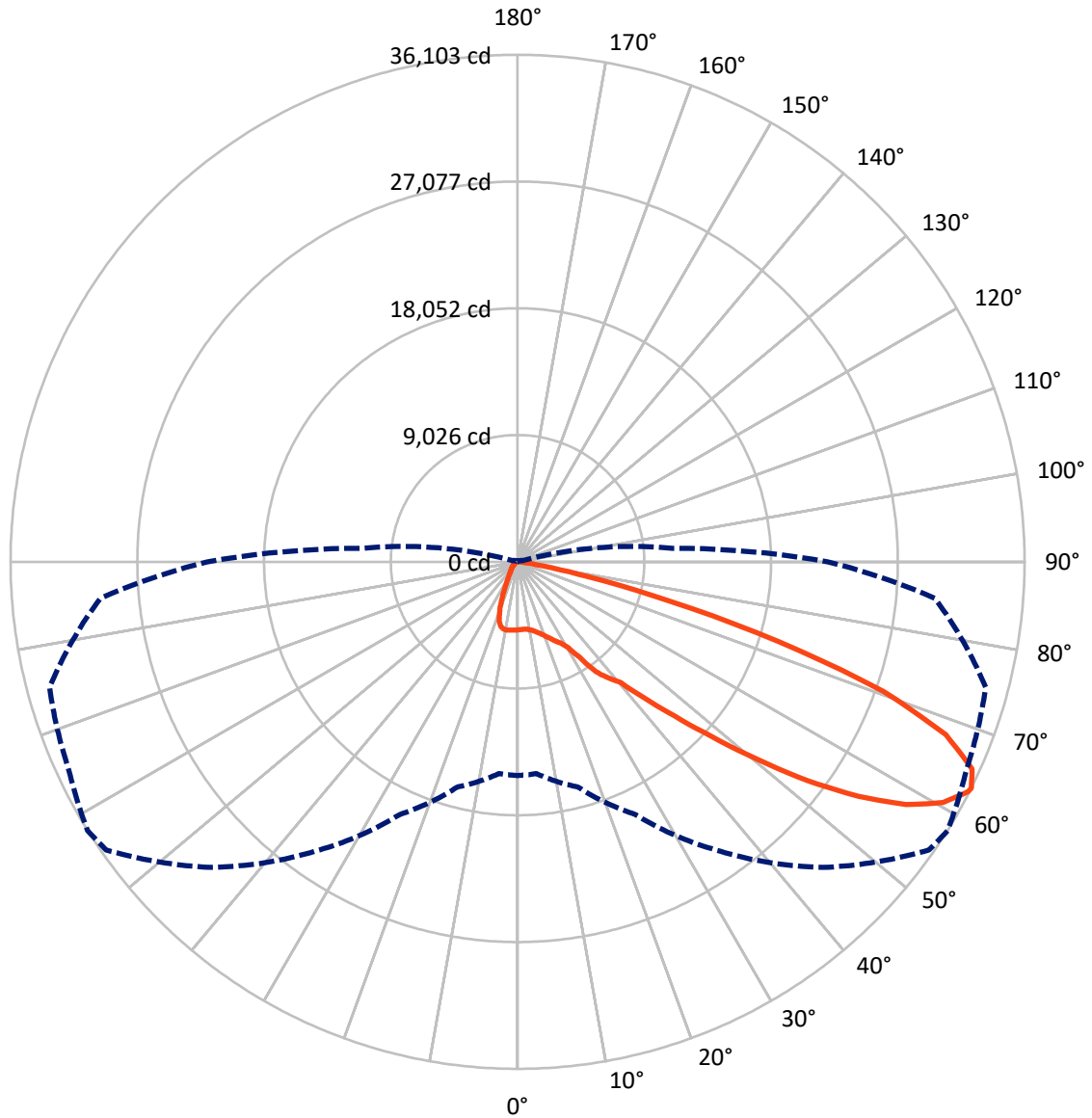
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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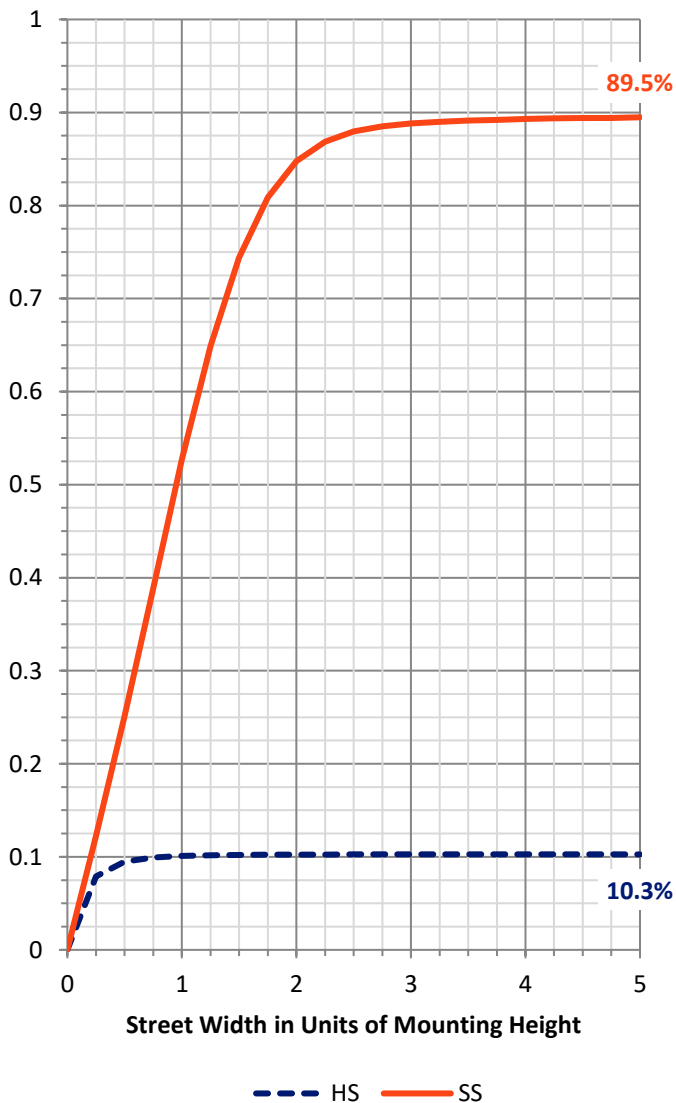
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4483.7	0.0	4483.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	38818.6	0.0	38818.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	43302.3	0.0	43302.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.8	1.0
10°-20°	1236.1	2.9
20°-30°	2145.2	5.0
30°-40°	3942.1	9.1
40°-50°	7420.9	17.1
50°-60°	12692.9	29.3
60°-70°	12153.5	28.1
70°-80°	3099.2	7.2
80°-90°	158.5	0.4
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°	43302.3	100.0
0°-180°	43302.3	100.0

Coefficient of Utilization

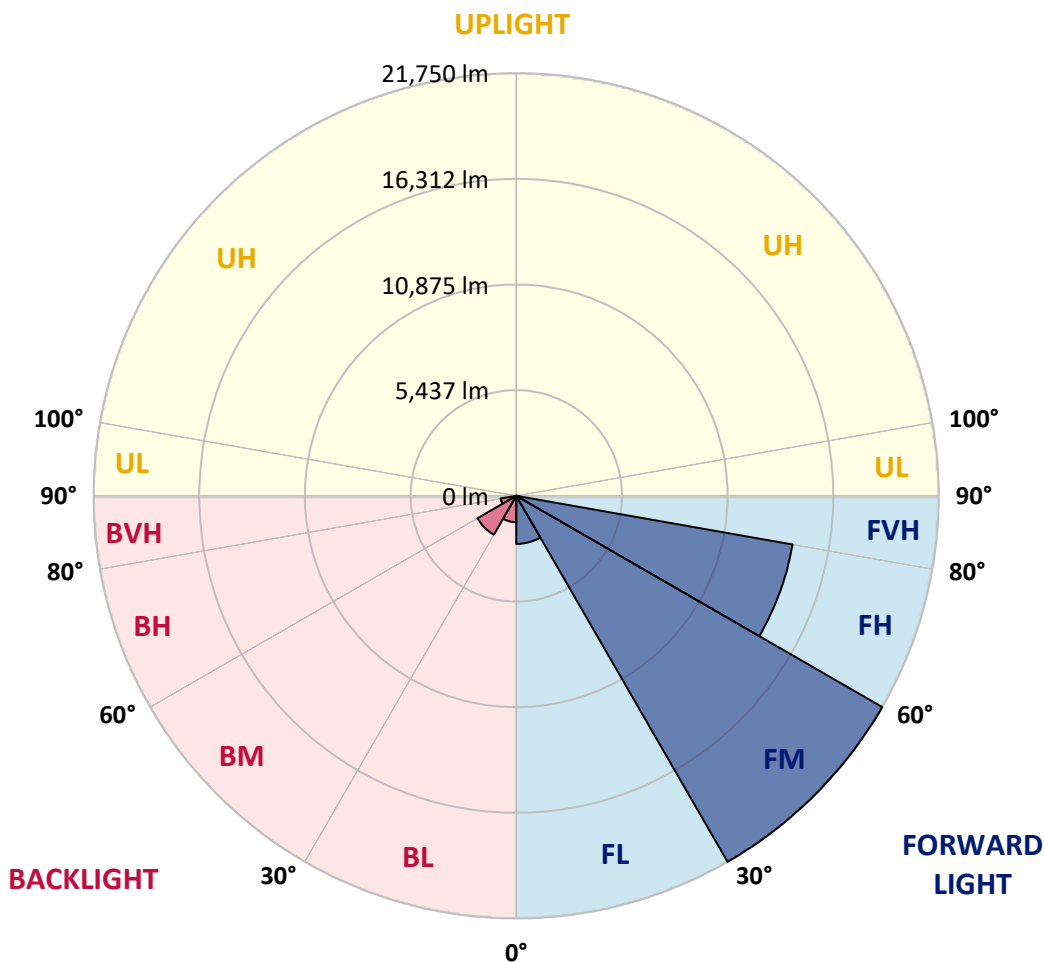


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2475.3	5.7			
FM (30°-60°)	21749.9	50.2			
FH (60°-80°)	14441.1	33.3			G5
FVH (80°-90°)	152.3	0.4			G2/225
BL (0°-30°)	1359.8	3.1	B3/2500		
BM (30°-60°)	2306.1	5.3	B2/2500		
BH (60°-80°)	811.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9
2.5°	4727.3	4743.5	4759.8	4766.4	4789.2	4812.0	4828.3	4825.1	4851.1	4864.2	4864.2
5°	4538.1	4538.1	4580.5	4619.6	4684.9	4750.1	4812.0	4825.1	4873.9	4919.6	4935.9
7.5°	4378.4	4388.2	4420.8	4492.5	4580.5	4694.6	4818.5	4847.9	4932.6	5033.7	5076.0
10°	4303.4	4310.0	4352.3	4427.3	4538.1	4694.6	4867.5	4922.9	5053.2	5213.0	5271.6
12.5°	4287.1	4296.9	4339.3	4424.0	4551.2	4740.3	4975.0	5033.7	5222.8	5428.2	5516.2
15°	4316.4	4323.0	4365.4	4456.6	4596.8	4821.8	5118.4	5200.0	5424.9	5662.9	5777.0
17.5°	4420.8	4414.2	4443.6	4518.6	4675.0	4922.9	5291.2	5389.0	5653.1	5979.1	6054.1
20°	4864.2	4821.8	4795.7	4730.5	4792.4	5066.3	5499.9	5643.4	5969.3	6301.9	6354.0
22.5°	5819.4	5724.9	5539.0	5284.7	5089.1	5261.9	5750.9	5917.2	6337.8	6663.7	6663.7
25°	7035.4	6914.8	6728.9	6174.7	5695.5	5584.7	6034.5	6243.2	6738.8	7068.0	6960.5
27.5°	8557.9	8463.4	8101.5	7456.0	6722.4	6148.6	6363.8	6556.2	7094.1	7491.9	7266.9
30°	9796.8	9751.1	9454.4	8877.4	8068.9	7231.0	6976.8	7103.8	7566.8	8026.5	7795.1
32.5°	10843.3	10843.3	10540.1	10002.2	9245.8	8502.5	8016.7	8108.0	8551.4	9082.8	8652.5
35°	11994.1	11955.0	11710.5	11198.7	10351.0	9695.7	9496.8	9620.7	10021.7	10416.2	9356.6
37.5°	13203.6	13190.6	12936.3	12440.7	11749.6	10924.8	10458.6	10491.2	10696.6	10937.8	10181.5
40°	14517.5	14537.0	14204.5	13898.0	13246.0	12401.6	11508.3	11303.0	11495.3	12176.7	11703.9
42.5°	16069.3	16023.7	15880.3	15463.0	14938.0	14432.7	13360.1	13285.1	13454.7	14185.0	13673.1
45°	17872.2	17937.4	17689.6	17458.2	17106.0	16685.5	15788.9	15658.5	15844.4	16978.9	16251.9
47.5°	19678.3	19616.4	19776.1	19733.7	19922.8	19609.8	18817.6	18550.3	18996.9	20072.8	19003.5
50°	21054.1	21122.6	21455.1	21940.8	22752.7	22928.7	22169.1	22077.8	22276.7	22967.8	21464.8
52.5°	21947.4	22175.6	22697.2	23945.9	25409.6	26547.4	25970.4	25921.6	25840.0	26025.8	23818.7
55°	22531.0	22762.4	23443.8	25282.6	27802.6	29651.1	29680.5	29471.8	28933.9	28800.2	26019.3
57.5°	22172.3	22218.0	23189.5	25647.6	29129.5	31864.8	32823.3	32614.7	31620.3	31115.0	27962.4
60°	19929.3	20023.9	21376.9	24265.4	28552.5	32588.5	34906.5	34811.9	33723.1	33152.6	29475.1
62.5°	15955.2	16229.0	17621.1	20842.2	25869.3	31369.2	35750.9	36018.2	35170.6	34384.9	29951.0
63°	15225.0	15136.9	16607.2	19844.6	25158.6	30766.1	35763.9	36103.0	35235.8	34502.3	29820.7
65°	11270.3	11534.4	12489.7	15648.7	20936.7	27959.1	34958.7	35558.6	34994.5	33983.9	28376.4
67.5°	6327.9	6314.9	7371.2	10240.2	14654.4	21931.1	31610.5	32878.7	32761.3	30495.5	23522.0
70°	3097.2	3146.0	3579.6	5307.6	8499.2	15130.4	26267.1	27636.4	27678.7	23952.4	16264.9
72.5°	1401.9	1424.7	1734.4	2585.3	4368.6	8055.9	18100.4	19407.8	19166.5	15264.1	8981.7
75°	740.1	788.9	955.2	1300.8	2106.0	3322.1	9845.7	11110.6	10605.3	6973.5	3305.8
77.5°	547.7	564.0	648.7	828.0	1128.0	1294.3	4248.0	5053.2	4733.7	2523.3	1095.4
80°	401.0	414.0	482.5	586.8	710.7	658.6	1600.8	1835.5	1646.3	857.4	335.8
82.5°	244.5	247.8	352.1	436.9	446.7	368.4	528.1	567.3	593.3	482.5	182.6
85°	88.1	110.8	238.0	316.2	264.1	185.9	221.7	244.5	267.4	306.5	107.6
87.5°	9.8	13.0	114.1	153.2	75.0	68.5	81.5	91.2	97.8	114.1	52.1
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°	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9
2.5°	4877.2	4890.2	4880.5	4864.2	4860.9	4851.1	4831.5	4831.5	4831.5	4838.1	4831.5
5°	4948.9	4958.7	4935.9	4903.3	4867.5	4821.8	4772.8	4743.5	4740.3	4733.7	4717.4
7.5°	5085.9	5098.9	5046.8	4968.5	4870.7	4759.8	4655.5	4557.7	4512.0	4476.2	4476.2
10°	5284.7	5297.8	5193.4	5053.2	4857.6	4632.6	4384.9	4159.9	3983.9	3902.4	3882.8
12.5°	5522.7	5529.2	5356.4	5111.9	4789.2	4355.5	3827.4	3335.2	2992.8	2836.4	2820.0
15°	5783.6	5737.9	5509.6	5134.7	4593.5	3785.0	2872.2	2269.1	1913.7	1809.4	1848.5
17.5°	6047.6	5962.9	5627.0	5098.9	4153.4	2872.2	1930.0	1548.5	1437.7	1408.4	1408.4
20°	6295.4	6178.0	5711.8	4942.4	3390.6	1979.0	1431.2	1340.0	1320.4	1300.8	1304.1
22.5°	6543.1	6363.8	5786.8	4593.5	2526.6	1414.9	1281.3	1251.9	1225.8	1199.8	1196.5
25°	6784.3	6536.6	5816.1	3948.1	1721.4	1216.0	1170.4	1131.3	1079.1	1049.7	1043.3
27.5°	7035.4	6745.2	5796.6	3133.0	1255.2	1088.9	1043.3	987.8	925.9	873.7	873.7
30°	7518.0	7143.0	5728.1	2252.8	1056.3	958.5	899.8	811.8	743.3	691.1	687.9
32.5°	8176.5	7661.3	5493.3	1584.4	938.9	844.4	756.4	658.6	586.8	547.7	547.7
35°	8763.3	8183.0	5053.2	1167.1	844.4	733.5	626.0	531.4	476.0	449.9	440.1
37.5°	9656.6	8945.9	4446.9	948.7	753.1	635.7	524.9	436.9	391.2	371.6	371.6
40°	10996.5	9878.3	3703.5	831.3	665.1	541.2	436.9	368.4	332.5	309.7	309.7
42.5°	12659.2	11019.4	2950.5	746.6	583.6	466.2	365.2	312.9	280.4	264.1	260.8
45°	14752.2	12222.3	2272.3	668.3	518.4	397.7	309.7	264.1	231.4	221.7	225.0
47.5°	16936.5	13281.9	1760.5	599.9	449.9	335.8	264.1	228.2	205.4	192.3	192.3
50°	18801.3	14012.2	1336.7	521.6	397.7	283.7	231.4	205.4	185.9	179.3	176.0
52.5°	20359.7	14224.1	1023.7	453.1	348.8	244.5	205.4	185.9	169.5	159.7	159.7
55°	21686.5	14038.2	802.0	381.5	293.4	211.9	182.6	166.3	146.7	136.9	133.6
57.5°	22462.5	13441.6	612.9	316.2	238.0	176.0	159.7	140.2	117.4	101.1	101.1
60°	22853.7	12574.5	469.4	260.8	182.6	140.2	130.4	104.3	81.5	68.5	65.2
62.5°	22384.2	11423.6	355.3	205.4	136.9	104.3	88.1	75.0	52.1	39.1	39.1
63°	22094.1	11091.0	342.3	195.6	127.2	97.8	81.5	68.5	45.7	35.8	32.6
65°	20141.3	9640.3	280.4	156.5	101.1	68.5	55.4	48.9	32.6	16.3	13.0
67.5°	15994.3	7374.5	221.7	117.4	71.7	48.9	32.6	29.4	9.8	0.0	0.0
70°	10813.9	4763.1	172.8	84.8	48.9	29.4	16.3	13.0	3.3	0.0	0.0
72.5°	5640.1	2441.8	133.6	62.0	29.4	19.6	9.8	3.3	0.0	0.0	0.0
75°	1995.2	831.3	97.8	39.1	19.6	9.8	3.3	0.0	0.0	0.0	0.0
77.5°	603.2	309.7	62.0	29.4	13.0	6.6	0.0	0.0	0.0	0.0	0.0
80°	211.9	114.1	35.8	19.6	9.8	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	104.3	55.4	22.8	16.3	9.8	3.3	0.0	0.0	0.0	0.0	0.0
85°	58.7	35.8	19.6	16.3	9.8	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	42.4	26.1	19.6	16.3	13.0	6.6	3.3	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)