

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: P648176

Luminaire Tested: **GALN-SA9A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19384.7 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

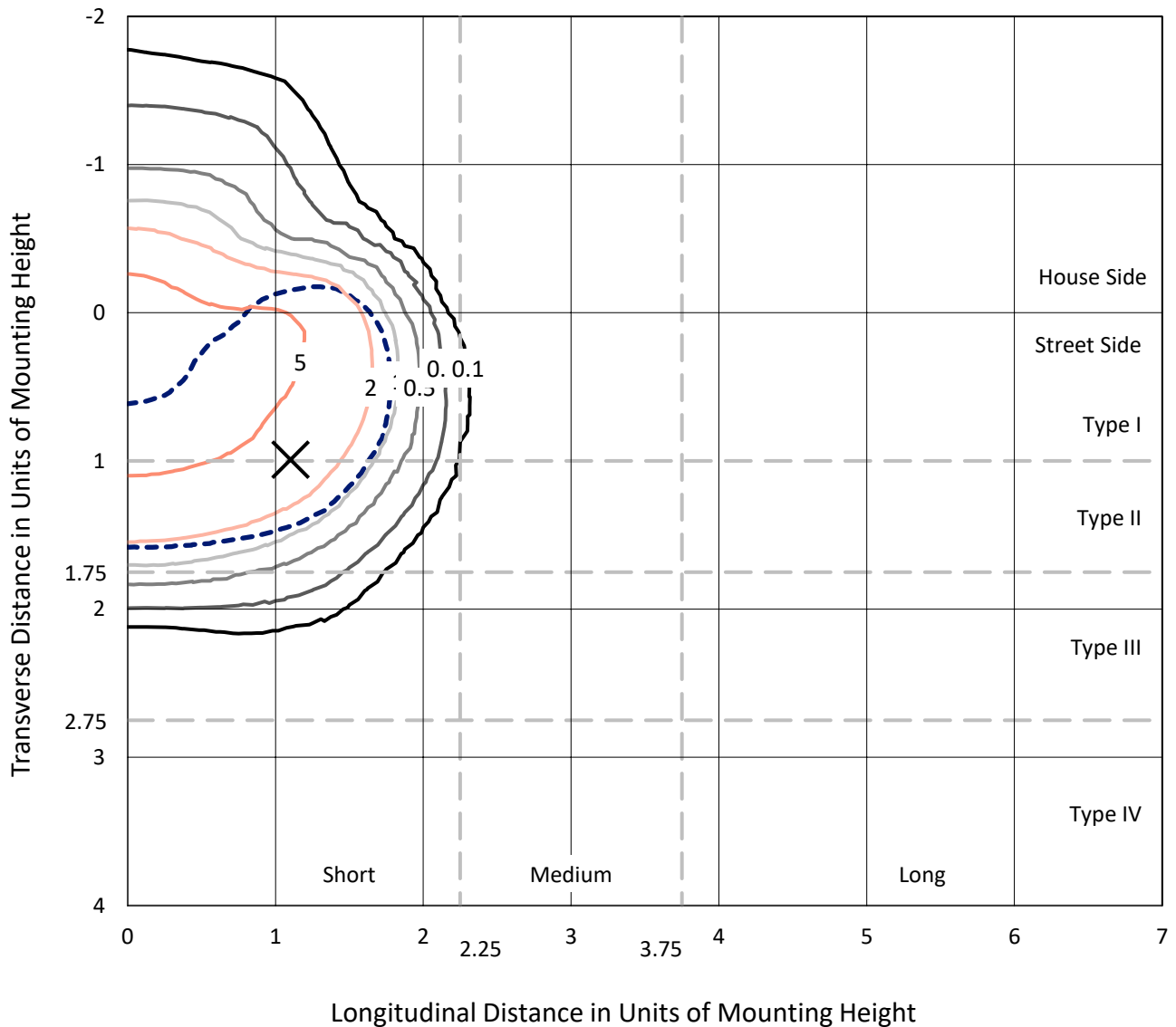
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

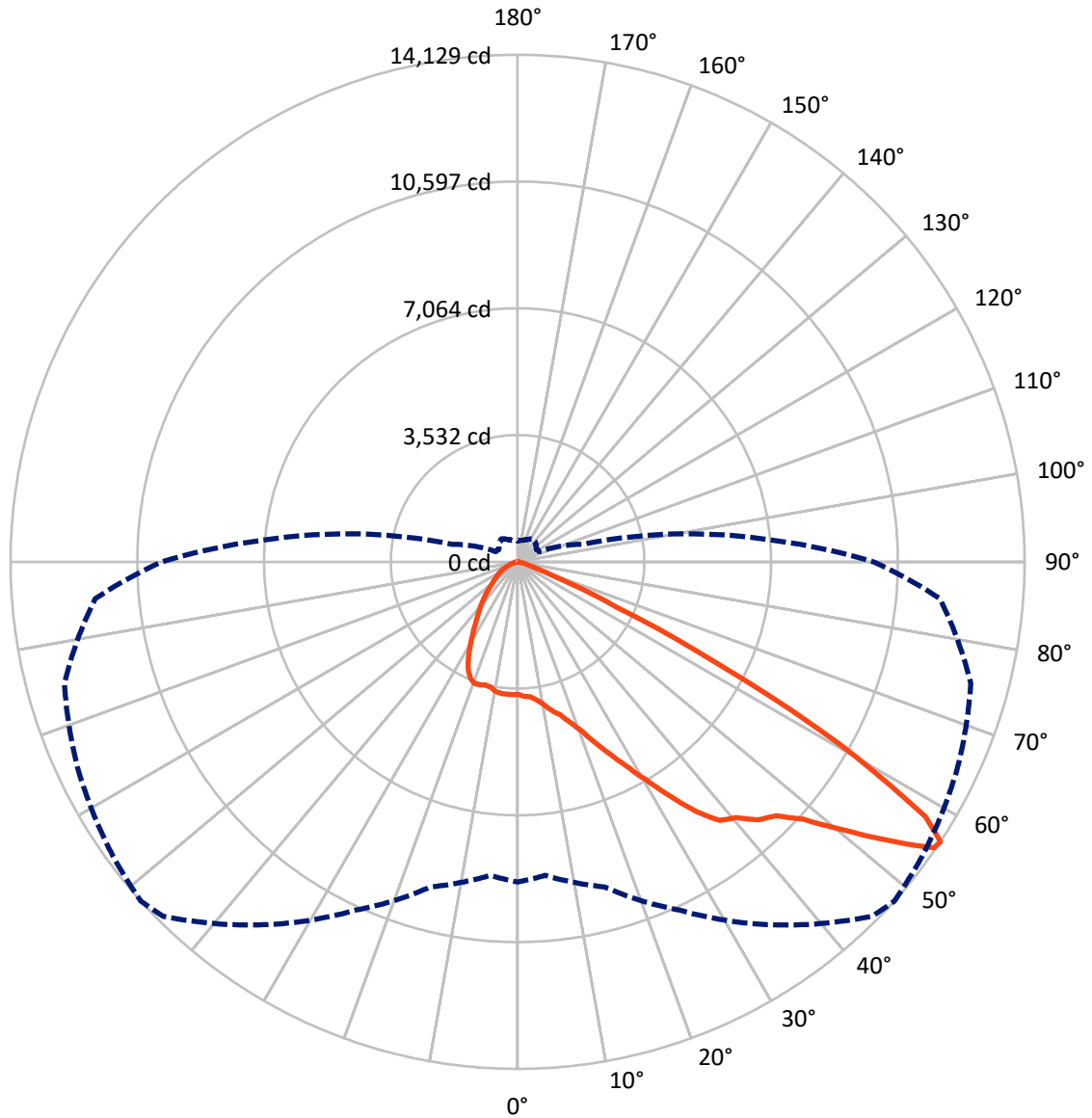
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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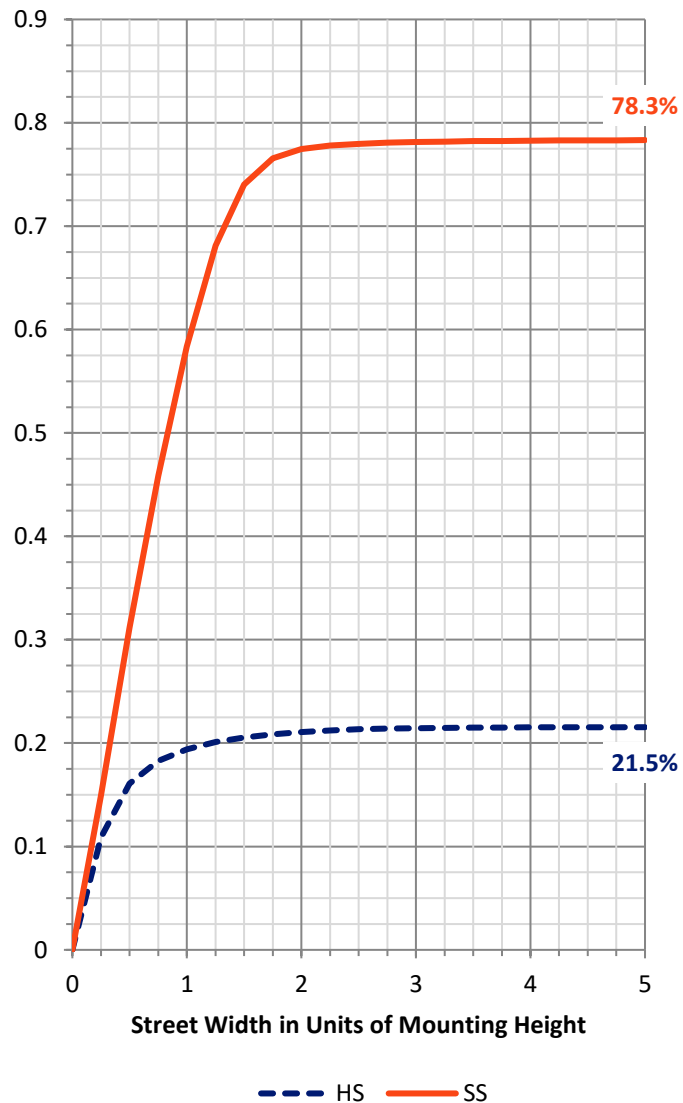
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4215.8	0.0	4215.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15168.9	0.0	15168.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	19384.7	0.0	19384.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.7	1.9
10°-20°	1152.6	5.9
20°-30°	2090.6	10.8
30°-40°	3283.9	16.9
40°-50°	4790.7	24.7
50°-60°	5771.8	29.8
60°-70°	1689.9	8.7
70°-80°	214.4	1.1
80°-90°	30.1	0.2
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°	19384.7	100.0
0°-180°	19384.7	100.0

Coefficient of Utilization



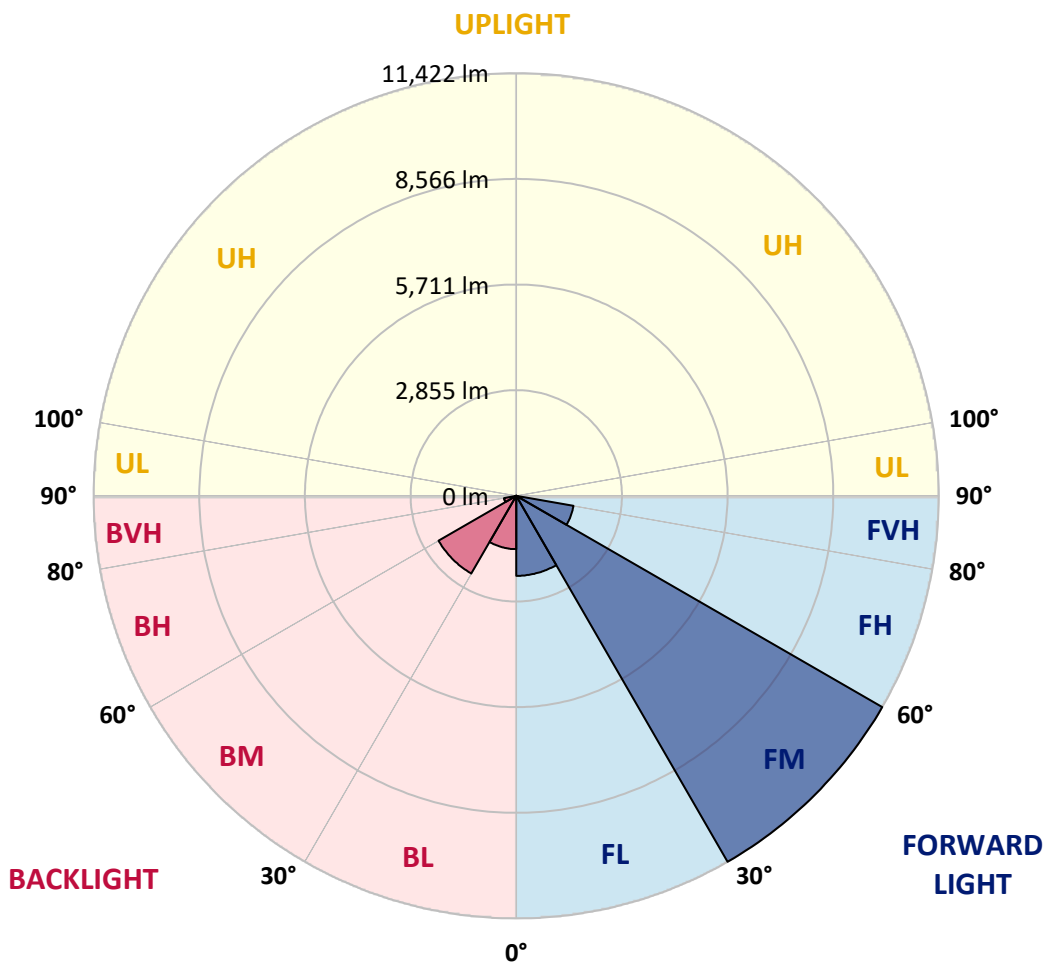
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2162.9	11.2			
FM (30°-60°)	11421.5	58.9			
FH (60°-80°)	1569.3	8.1			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1441.0	7.4	B3/2500		
BM (30°-60°)	2424.9	12.5	B2/2500		
BH (60°-80°)	335.0	1.7	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5
2.5°	3769.5	3751.9	3751.9	3723.6	3755.4	3741.3	3751.9	3716.6	3751.9	3699.0	3741.3
5°	3787.2	3790.7	3776.6	3794.3	3794.3	3815.4	3780.2	3811.9	3829.6	3790.7	3773.1
7.5°	3879.0	3886.0	3882.5	3868.4	3896.6	3893.1	3889.6	3864.9	3871.9	3857.8	3836.6
10°	4059.0	4055.5	4073.1	4037.8	4016.6	4041.3	4048.4	4009.6	3981.3	3970.7	3903.6
12.5°	4320.1	4277.8	4253.1	4217.8	4228.4	4193.1	4256.6	4189.6	4175.4	4111.9	4044.8
15°	4531.9	4524.9	4528.4	4471.9	4408.4	4422.5	4422.5	4387.2	4366.0	4288.4	4193.1
17.5°	4966.1	4817.8	4849.6	4779.0	4726.0	4722.5	4690.8	4697.8	4641.4	4479.0	4334.3
20°	5304.9	5241.4	5192.0	5072.0	4990.8	5015.5	5001.3	4966.1	4948.4	4736.7	4531.9
22.5°	5608.5	5629.6	5548.4	5516.7	5403.7	5414.3	5442.6	5410.8	5276.6	5057.9	4754.3
25°	6035.5	6010.8	5901.4	5862.6	5756.7	5795.5	5904.9	5880.3	5795.5	5400.2	4927.3
27.5°	6540.2	6455.5	6476.7	6300.3	6197.9	6307.3	6437.9	6561.5	6321.4	5802.6	5131.9
30°	6896.7	6808.5	6801.5	6794.4	6769.7	6896.7	7048.5	7161.5	6967.3	6205.0	5470.8
32.5°	7073.2	7094.4	7154.3	7133.2	7348.5	7609.7	7768.5	7930.9	7687.3	6861.4	5919.0
35°	7542.6	7408.5	7542.6	7556.7	7779.1	8333.2	8534.5	8922.7	8862.7	7789.7	6466.1
37.5°	7817.9	7807.4	7825.0	7959.1	8174.4	8859.2	9145.0	9445.1	9332.1	8347.4	7147.3
40°	8273.3	8301.5	8297.9	8400.3	8636.8	9254.4	9370.9	9614.5	9625.1	9120.3	8149.7
42.5°	9003.9	8890.9	8816.8	8922.7	9254.4	9596.8	9829.8	9780.4	10129.8	10059.2	9438.0
45°	9660.3	9727.4	9618.0	9794.5	9914.5	10098.0	10091.0	10196.9	10641.6	10976.9	10408.7
47.5°	10274.5	10316.9	10369.8	10489.8	10751.0	10779.2	10719.2	10673.3	11287.5	11633.3	11160.4
50°	10641.6	10680.4	10927.5	11142.8	11629.8	11693.4	11728.7	11612.2	12028.7	12067.5	11869.9
52.5°	10542.8	10585.1	10931.0	11640.5	12417.0	12999.3	12893.4	12695.8	12671.1	12822.8	12526.4
55°	9667.4	9628.6	10105.1	11209.8	12664.0	14061.7	14075.8	13867.6	13468.8	13366.4	12427.5
56°	8922.7	8770.9	9378.0	10712.1	12346.3	13970.0	14128.8	13906.4	13532.3	13073.4	11816.9
57.5°	7309.7	7454.4	8057.9	9162.7	11248.7	13309.9	13401.7	13348.7	13066.4	12296.9	10398.0
60°	4030.7	4284.9	4817.8	6169.6	8008.5	10214.5	10288.6	10719.2	10772.2	9416.8	7154.3
62.5°	1711.8	1683.6	2237.7	3233.1	4560.2	6166.1	6303.8	6745.0	6826.1	5428.5	3589.6
65°	695.3	734.1	1013.0	1627.2	2410.7	2809.5	3003.7	3148.4	3416.6	2241.3	1323.6
67.5°	458.8	455.3	596.5	928.2	1298.8	1253.0	1253.0	1323.6	1224.8	914.2	571.8
70°	328.2	338.8	427.0	642.4	808.3	600.0	575.3	550.6	624.8	603.5	462.4
72.5°	215.3	229.4	285.9	384.7	420.0	328.2	328.2	395.3	515.3	487.1	377.6
75°	141.2	144.7	176.5	222.4	208.3	169.4	187.1	264.7	374.1	360.0	268.3
77.5°	95.3	98.8	120.0	144.7	116.5	95.3	102.3	134.1	183.5	183.5	141.2
80°	35.3	38.8	49.4	45.9	52.9	67.0	74.2	91.8	109.4	109.4	95.3
82.5°	0.0	3.5	10.6	24.7	38.8	52.9	60.0	70.6	81.2	91.8	88.2
85°	0.0	3.5	10.6	17.6	28.3	31.8	35.3	24.7	21.1	21.1	17.6
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	7.0	3.5	3.5
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°	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5	3702.5
2.5°	3702.5	3699.0	3699.0	3688.4	3709.5	3699.0	3706.0	3702.5	3656.6	3691.9	3667.2
5°	3741.3	3766.0	3727.2	3720.1	3691.9	3702.5	3702.5	3667.2	3699.0	3695.4	3688.4
7.5°	3840.1	3797.8	3755.4	3713.1	3706.0	3695.4	3656.6	3642.5	3667.2	3639.0	3681.4
10°	3882.5	3889.6	3826.1	3769.5	3716.6	3642.5	3589.6	3557.8	3519.0	3561.3	3586.0
12.5°	4076.6	4006.1	3896.6	3808.4	3628.3	3554.3	3501.3	3487.2	3554.3	3568.4	3543.7
15°	4143.7	4133.1	3991.9	3794.3	3607.2	3519.0	3529.5	3501.3	3508.4	3473.1	3480.1
17.5°	4281.4	4161.3	3995.4	3748.4	3603.7	3582.5	3519.0	3406.0	3342.5	3314.2	3338.9
20°	4433.1	4316.6	4076.6	3766.0	3635.5	3578.9	3370.7	3233.1	3102.5	3031.9	3035.4
22.5°	4567.2	4422.5	4041.3	3773.1	3663.7	3430.7	3180.2	2908.4	2746.0	2636.6	2640.1
25°	4729.6	4524.9	4055.5	3787.2	3589.6	3194.2	2834.2	2569.5	2375.4	2301.2	2326.0
27.5°	4821.3	4588.4	4133.1	3819.0	3395.4	2859.0	2470.7	2223.6	2110.7	2075.3	2071.8
30°	5096.6	4729.6	4228.4	3755.4	3070.7	2498.9	2138.9	1987.1	1877.7	1845.9	1853.0
32.5°	5506.1	4987.2	4351.9	3589.6	2738.9	2177.8	1923.6	1810.7	1708.3	1648.3	1641.2
35°	5848.5	5428.5	4482.5	3331.9	2354.2	1930.6	1771.9	1630.7	1475.3	1408.3	1390.6
37.5°	6501.4	5926.1	4454.3	2943.6	1987.1	1747.1	1609.5	1436.5	1302.4	1210.6	1200.0
40°	7369.7	6508.5	4316.6	2470.7	1715.4	1584.8	1436.5	1270.7	1104.7	1027.1	1020.0
42.5°	8425.0	7221.5	4066.0	1990.7	1443.6	1422.4	1288.3	1097.7	949.5	893.0	896.5
45°	9282.7	7832.0	3811.9	1598.9	1242.4	1263.6	1147.1	967.1	864.7	818.9	818.9
47.5°	10045.1	8245.0	3536.6	1320.1	1055.3	1104.7	1002.4	896.5	808.3	773.0	765.9
50°	10779.2	8665.1	3261.3	1069.4	900.1	949.5	938.9	854.2	783.5	741.2	744.7
52.5°	11238.1	8732.1	2911.9	875.3	787.1	843.5	878.8	801.2	723.6	698.8	691.8
55°	10676.9	7867.3	2258.9	720.0	667.1	741.2	808.3	720.0	660.0	617.7	614.1
56°	9921.5	7034.4	1888.3	663.6	631.8	713.0	783.5	688.3	621.2	596.5	578.9
57.5°	8400.3	5756.7	1394.1	589.4	585.9	663.6	744.7	656.5	578.9	557.7	557.7
60°	5237.9	3240.1	843.5	494.2	508.2	589.4	670.6	585.9	515.3	515.3	525.9
62.5°	2386.0	1348.2	511.8	420.0	437.7	508.2	596.5	529.5	490.6	529.5	536.5
65°	811.8	582.4	370.6	335.3	345.9	420.0	511.8	536.5	533.0	557.7	571.8
67.5°	455.3	374.1	310.6	278.8	271.8	310.6	420.0	536.5	515.3	504.7	511.8
70°	384.7	317.7	275.3	247.0	236.5	250.6	324.7	405.9	363.5	353.0	345.9
72.5°	310.6	264.7	240.0	222.4	190.6	162.4	148.2	155.3	173.0	183.5	201.2
75°	218.8	201.2	201.2	180.0	137.7	102.3	81.2	67.0	45.9	31.8	35.3
77.5°	123.6	123.6	127.1	109.4	88.2	67.0	49.4	35.3	17.6	7.0	3.5
80°	84.7	91.8	98.8	88.2	74.2	60.0	42.4	24.7	10.6	0.0	0.0
82.5°	84.7	95.3	102.3	88.2	74.2	56.5	42.4	24.7	10.6	3.5	0.0
85°	17.6	21.1	24.7	28.3	42.4	42.4	31.8	21.1	10.6	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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)