

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: P652074

Luminaire Tested: **GALN-SA8A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26049.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

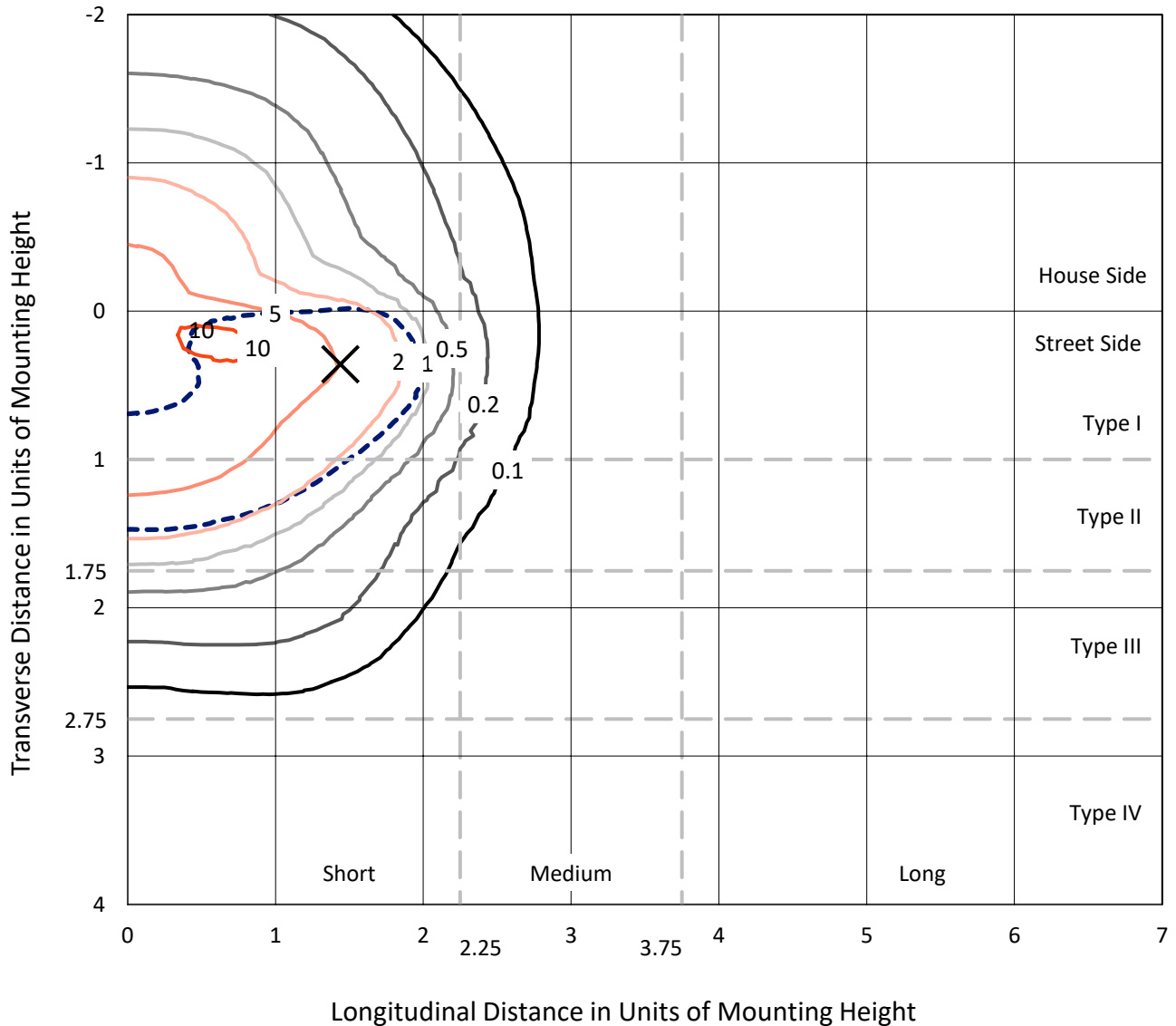
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

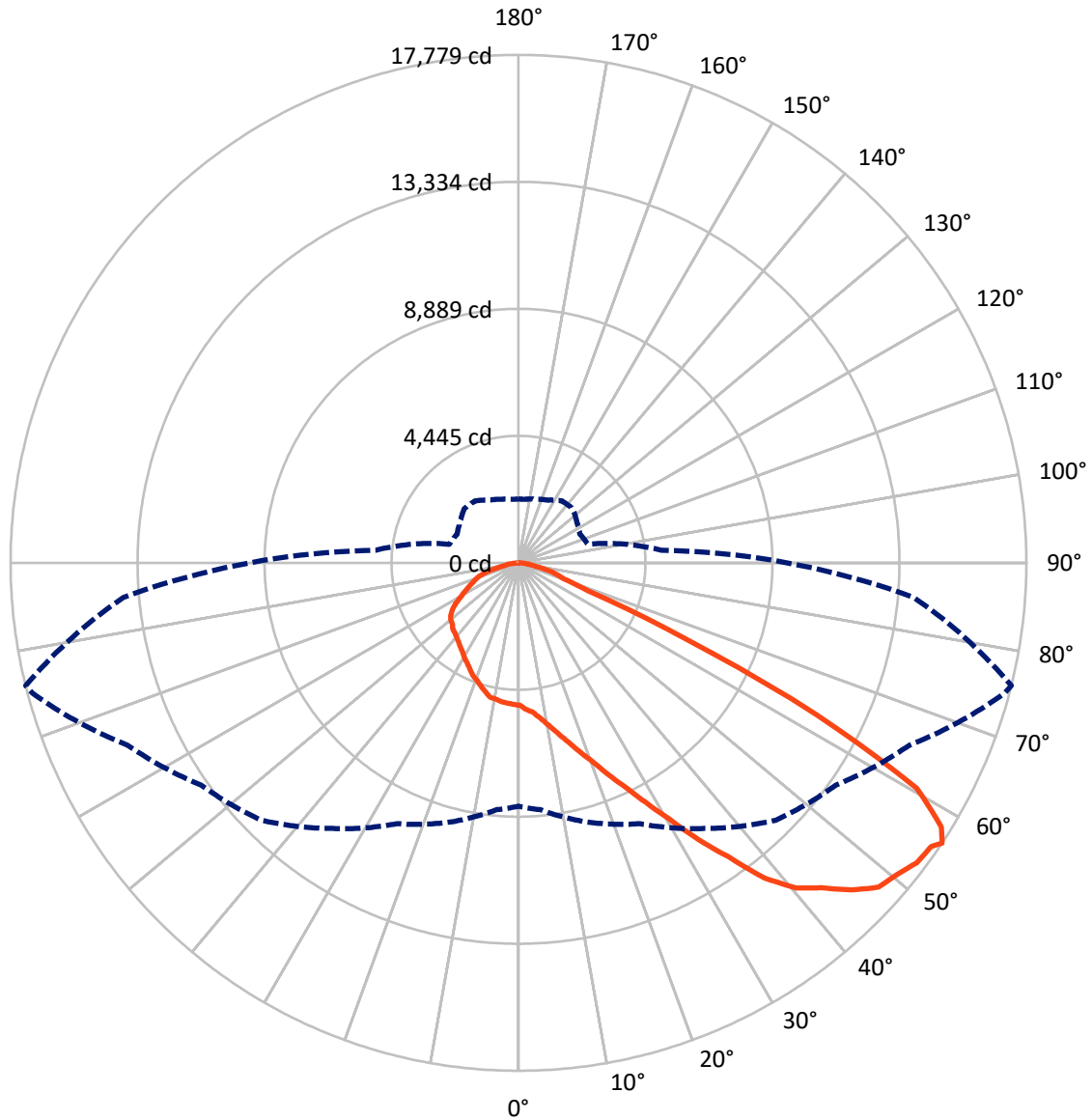
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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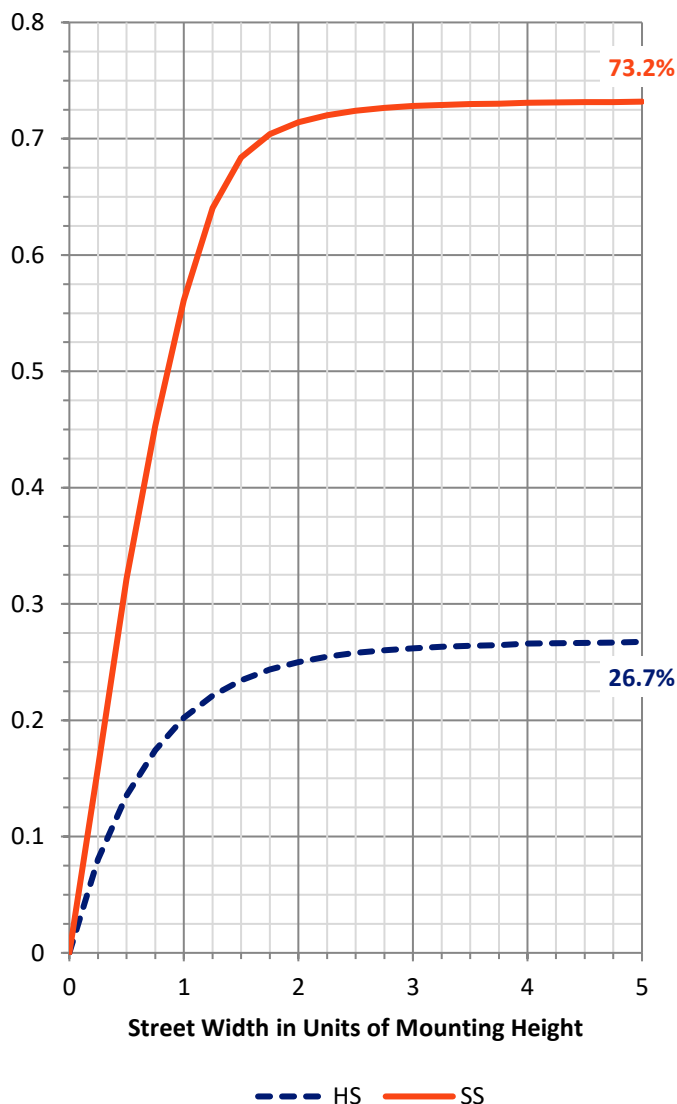
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7003.8	0.0	7003.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	19045.3	0.0	19045.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	26049.1	0.0	26049.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.3	1.9
10°-20°	1552.7	6.0
20°-30°	2715.5	10.4
30°-40°	4251.6	16.3
40°-50°	6184.9	23.7
50°-60°	6797.6	26.1
60°-70°	3034.1	11.6
70°-80°	876.4	3.4
80°-90°	142.2	0.5
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°	26049.1	100.0
0°-180°	26049.1	100.0

Coefficient of Utilization



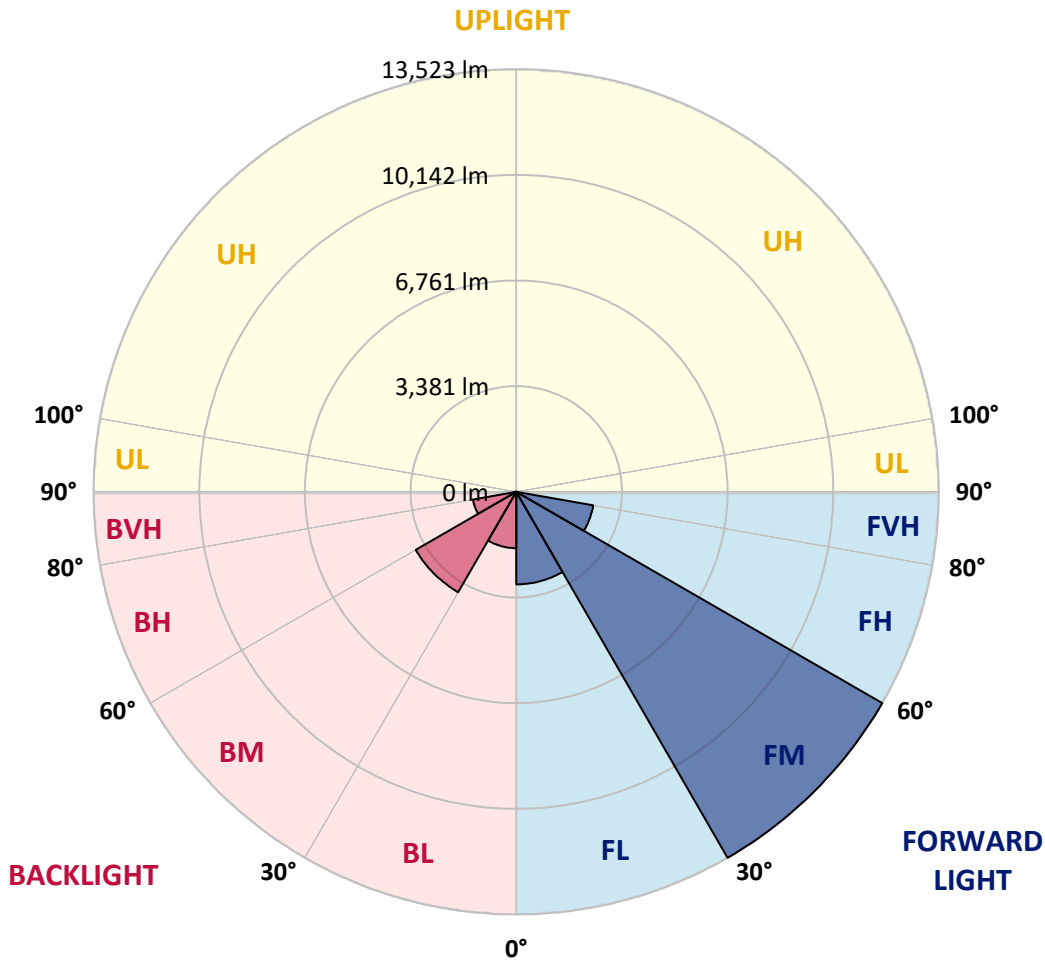
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2960.2	11.4			
FM (30°-60°)	13522.6	51.9			
FH (60°-80°)	2501.3	9.6			G2/5000
FVH (80°-90°)	61.2	0.2			G1/100
BL (0°-30°)	1802.2	6.9	B3/2500		
BM (30°-60°)	3711.5	14.2	B3/5000		
BH (60°-80°)	1409.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	81.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2
2.5°	5490.7	5402.9	5396.1	5372.5	5386.0	5325.2	5261.0	5176.6	5088.8	5142.9	5014.5
5°	5875.6	5757.5	5804.8	5723.7	5733.9	5652.8	5521.1	5423.2	5315.1	5251.0	5159.8
7.5°	6010.7	6020.9	6054.6	6041.1	5973.5	5973.5	5885.7	5713.6	5524.4	5487.3	5335.4
10°	6193.0	6196.4	6159.3	6169.4	6263.9	6220.1	6142.4	6068.2	5825.0	5781.1	5511.0
12.5°	6257.2	6196.4	6257.2	6311.3	6422.7	6483.4	6466.6	6412.5	6152.5	6122.1	5727.0
15°	6267.4	6230.2	6280.8	6402.4	6500.3	6757.0	6885.4	6848.2	6503.7	6507.1	5970.2
17.5°	6220.1	6270.7	6291.0	6395.6	6621.9	6861.6	7233.1	7283.7	7000.1	6956.2	6277.5
20°	6284.2	6247.1	6274.1	6368.6	6669.2	7044.0	7530.3	7864.6	7466.1	7435.7	6594.9
22.5°	6530.8	6480.1	6473.3	6534.1	6750.2	7138.6	7844.3	8445.4	8033.4	8050.3	6990.0
25°	6723.2	6750.2	6726.6	6723.2	6858.3	7280.4	8259.6	9137.6	8803.3	8705.4	7456.0
27.5°	7054.1	7118.3	7071.0	7135.2	7104.8	7493.1	8556.8	9904.2	9634.0	9502.4	7878.1
30°	7513.4	7547.1	7503.2	7503.2	7412.1	7790.3	8827.0	10704.5	10593.1	10414.1	8374.5
32.5°	8117.8	8168.5	8080.7	8030.0	8016.6	8232.6	9313.2	11494.6	11683.8	11531.8	9032.9
35°	8918.1	8887.8	8783.1	8735.8	8553.5	8911.4	10035.9	12403.0	12899.4	12629.3	9829.9
37.5°	9623.9	9576.6	9569.9	9306.5	9350.4	9644.2	10650.4	13091.8	14077.9	14000.2	10670.7
40°	10282.4	10326.3	10397.2	10248.6	10181.1	10505.3	11366.4	13618.6	14993.0	14962.7	11319.0
42.5°	10988.2	10947.6	11072.5	10947.6	10846.3	11305.6	12143.0	13983.4	15796.7	15546.8	11997.8
45°	12011.3	11883.0	11926.9	11937.0	11862.7	12031.6	12463.8	14246.7	16360.6	16333.6	12494.1
47.5°	12865.6	12869.0	12794.7	12737.3	12511.1	12679.9	12821.7	14412.2	17009.0	16965.1	12686.7
50°	13183.1	13139.2	13355.2	13480.2	13493.8	13149.3	13102.0	14503.4	17350.0	17157.6	12879.2
52.5°	12041.7	12082.2	12423.3	13166.2	13595.0	13632.2	13429.6	14692.5	17488.5	17448.0	13034.5
55°	9691.4	9887.3	10447.8	11305.6	12322.0	13439.7	13784.2	14888.3	17562.8	17529.0	13723.4
56°	8519.7	8671.6	9401.0	10073.0	11349.5	12740.7	13561.3	15097.7	17620.2	17778.9	13885.4
57.5°	6858.3	7033.9	7557.3	8320.4	9826.5	11410.3	12946.7	14841.0	17397.3	17458.1	14003.7
60°	4288.5	4305.4	4933.5	5436.6	6497.0	8043.6	9880.6	12912.9	16100.6	16012.8	12578.6
62.5°	2812.9	2816.3	3387.0	3798.9	4281.8	4636.3	5814.8	8563.6	11879.6	11724.3	8955.3
65°	1975.4	2019.3	2461.7	3012.1	3208.0	3022.2	2985.1	4514.8	6635.4	6412.5	4811.9
67.5°	1445.3	1448.6	1840.4	2431.3	2714.9	2299.6	1867.4	2205.0	2627.1	2620.4	2228.7
70°	955.6	996.2	1296.7	1816.7	2140.9	1847.1	1526.3	1577.0	1671.5	1671.5	1658.0
72.5°	557.2	594.3	793.6	1151.5	1202.1	1154.9	1208.9	1350.7	1411.5	1408.2	1391.3
75°	317.4	334.3	378.2	479.5	597.7	705.8	888.1	1023.2	1084.0	1121.1	1077.2
77.5°	185.7	195.9	222.9	273.5	310.7	381.6	482.9	577.4	658.5	648.3	655.1
80°	97.9	97.9	125.0	162.1	216.1	270.1	320.8	374.8	418.7	428.8	439.0
82.5°	57.4	60.8	81.1	118.2	155.3	192.5	246.5	283.7	324.2	327.6	334.3
85°	30.4	33.8	50.6	77.7	104.7	118.2	121.5	114.8	125.0	118.2	135.1
87.5°	10.1	10.1	16.9	13.5	13.5	16.9	20.3	20.3	27.0	27.0	27.0
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°	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2	4984.2
2.5°	5011.2	5011.2	4953.7	4845.8	4828.9	4785.0	4744.4	4741.1	4710.6	4683.6	4670.2
5°	5105.7	5001.1	4916.7	4818.7	4703.9	4649.9	4589.1	4521.6	4494.6	4521.6	4518.2
7.5°	5213.8	5126.0	4872.8	4690.4	4558.7	4504.6	4437.1	4366.2	4372.9	4372.9	4325.7
10°	5318.5	5200.3	4795.0	4562.1	4369.6	4329.0	4292.0	4319.0	4352.7	4359.5	4329.0
12.5°	5494.1	5227.3	4758.0	4433.8	4312.1	4224.4	4248.1	4322.3	4393.2	4372.9	4396.6
15°	5625.8	5251.0	4589.1	4302.1	4150.1	4190.6	4275.1	4325.7	4443.8	4430.4	4454.0
17.5°	5754.0	5264.4	4423.6	4126.5	4062.3	4173.7	4237.9	4383.1	4420.2	4501.3	4531.6
20°	6017.4	5291.5	4254.8	4018.4	3998.1	4126.5	4237.9	4305.4	4386.5	4457.4	4457.4
22.5°	6152.5	5277.9	4143.4	3876.6	3940.8	4021.7	4123.1	4237.9	4237.9	4305.4	4308.8
25°	6321.4	5224.0	3967.8	3809.1	3856.3	3933.9	4048.8	4008.3	4052.2	4052.2	4106.2
27.5°	6513.9	5109.1	3815.8	3687.4	3782.1	3866.4	3883.3	3856.3	3805.7	3798.9	3778.6
30°	6669.2	4967.3	3704.4	3646.9	3724.6	3771.9	3717.9	3660.5	3572.7	3565.9	3518.7
32.5°	6881.9	4791.7	3565.9	3545.7	3633.5	3636.8	3619.9	3532.1	3403.9	3349.8	3295.8
35°	7239.8	4690.4	3461.2	3491.6	3518.7	3508.5	3478.1	3383.6	3255.3	3231.6	3211.4
37.5°	7503.2	4616.1	3353.2	3390.3	3414.0	3427.5	3336.2	3231.6	3235.0	3187.7	3174.2
40°	7800.4	4568.8	3265.4	3282.3	3285.6	3329.5	3218.1	3167.5	3191.1	3160.7	3180.9
42.5°	8182.0	4582.4	3174.2	3160.7	3224.8	3208.0	3153.9	3086.4	3099.9	3008.8	3022.2
45°	8384.6	4673.5	3120.2	3059.4	3130.3	3126.9	3056.0	2991.9	2910.8	2735.2	2742.0
47.5°	8519.7	4697.2	2991.9	2951.3	3025.6	3069.5	2988.5	2839.9	2725.1	2600.1	2569.8
50°	8658.1	4741.1	2931.1	2846.6	2877.1	2981.7	2880.4	2738.6	2627.1	2515.7	2532.6
52.5°	8779.7	4825.5	2812.9	2687.9	2742.0	2856.8	2802.7	2630.6	2509.0	2417.8	2390.8
55°	9320.0	5014.5	2613.7	2451.6	2579.9	2725.1	2694.7	2485.3	2353.6	2306.4	2299.6
56°	9404.4	5021.3	2509.0	2370.5	2488.7	2681.2	2644.0	2421.2	2303.0	2228.7	2232.1
57.5°	9417.9	4940.3	2360.4	2296.3	2397.5	2617.0	2569.8	2370.5	2208.5	2140.9	2120.7
60°	8286.7	3856.3	2174.7	2134.1	2252.4	2421.2	2404.3	2232.1	2049.7	1972.1	2009.2
62.5°	5649.4	2826.3	2029.5	2022.7	2083.5	2248.9	2205.0	2049.7	1897.8	1847.1	1823.5
65°	3289.0	2144.3	1887.6	1860.6	1911.3	1999.1	2029.5	1867.4	1708.7	1674.9	1664.8
67.5°	1941.7	1772.8	1705.3	1661.4	1644.5	1698.6	1722.2	1627.6	1468.9	1421.6	1462.2
70°	1624.2	1577.0	1580.3	1506.1	1465.5	1428.4	1408.2	1323.7	1192.0	1131.2	1114.3
72.5°	1401.4	1381.1	1367.6	1300.1	1262.9	1178.5	1090.7	1006.3	908.4	857.7	861.1
75°	1070.4	1063.7	1070.4	1036.7	972.5	905.0	823.9	715.9	641.6	577.4	591.0
77.5°	638.2	658.5	668.6	655.1	628.1	567.3	516.6	445.7	374.8	324.2	317.4
80°	439.0	455.9	472.7	455.9	428.8	384.9	330.9	276.9	226.2	199.2	192.5
82.5°	334.3	351.2	361.3	344.5	310.7	263.4	226.2	189.1	148.6	121.5	114.8
85°	121.5	138.4	135.1	162.1	175.6	168.9	145.2	111.4	84.4	60.8	57.4
87.5°	33.8	30.4	33.8	33.8	33.8	30.4	27.0	27.0	27.0	16.9	13.5
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)