

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: P651098

Luminaire Tested: **GALN-SA8C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47345.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

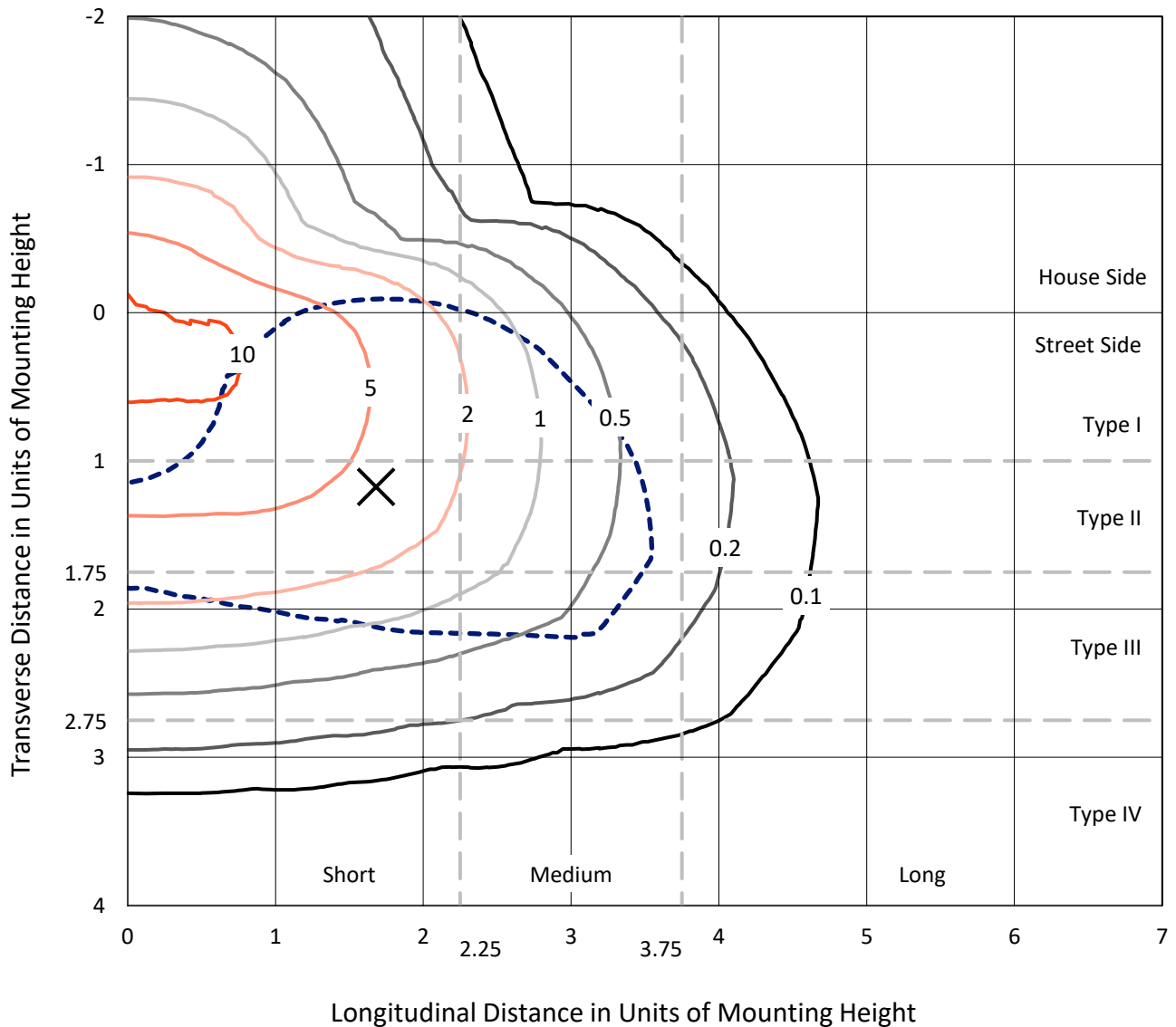
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

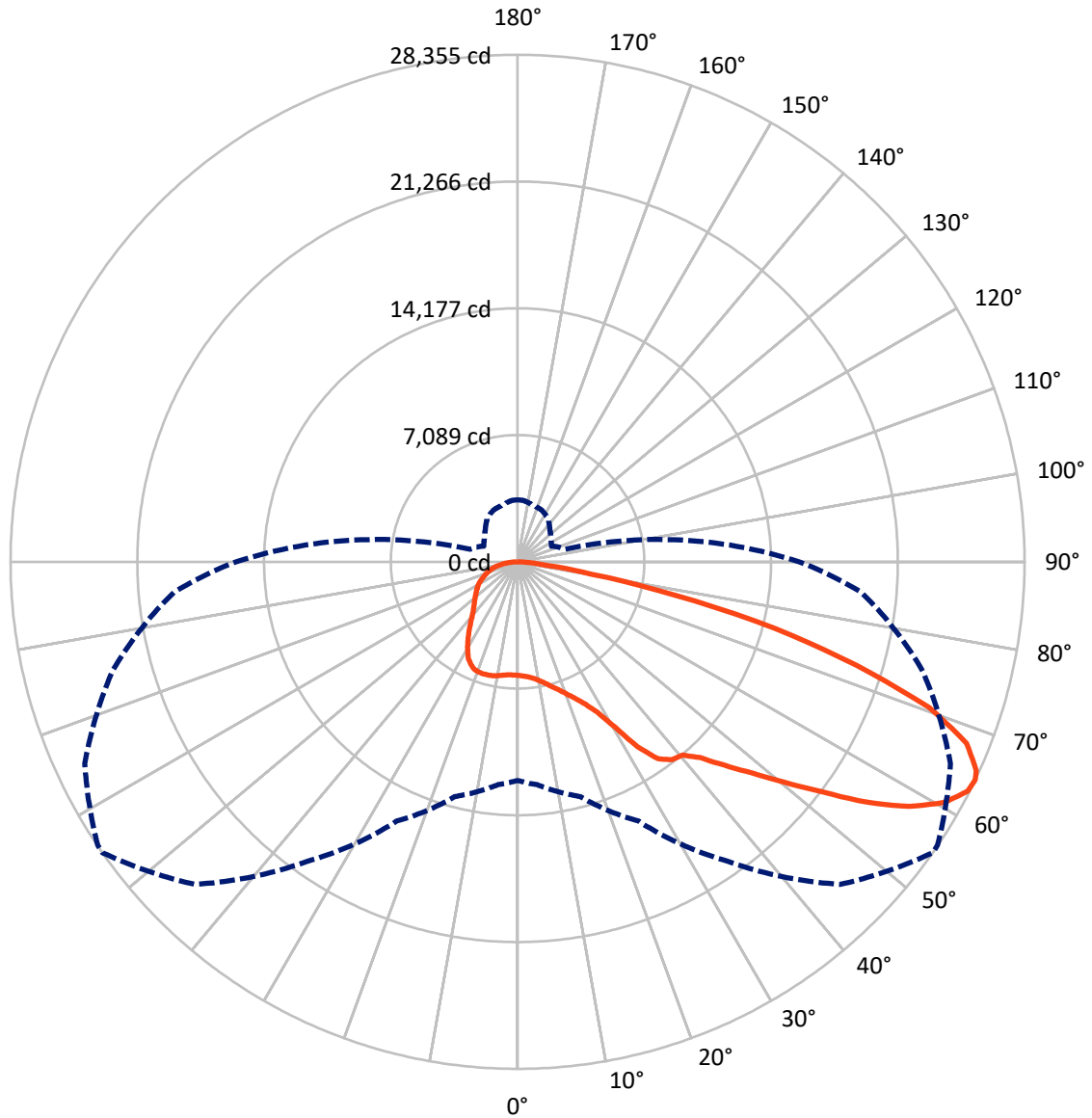
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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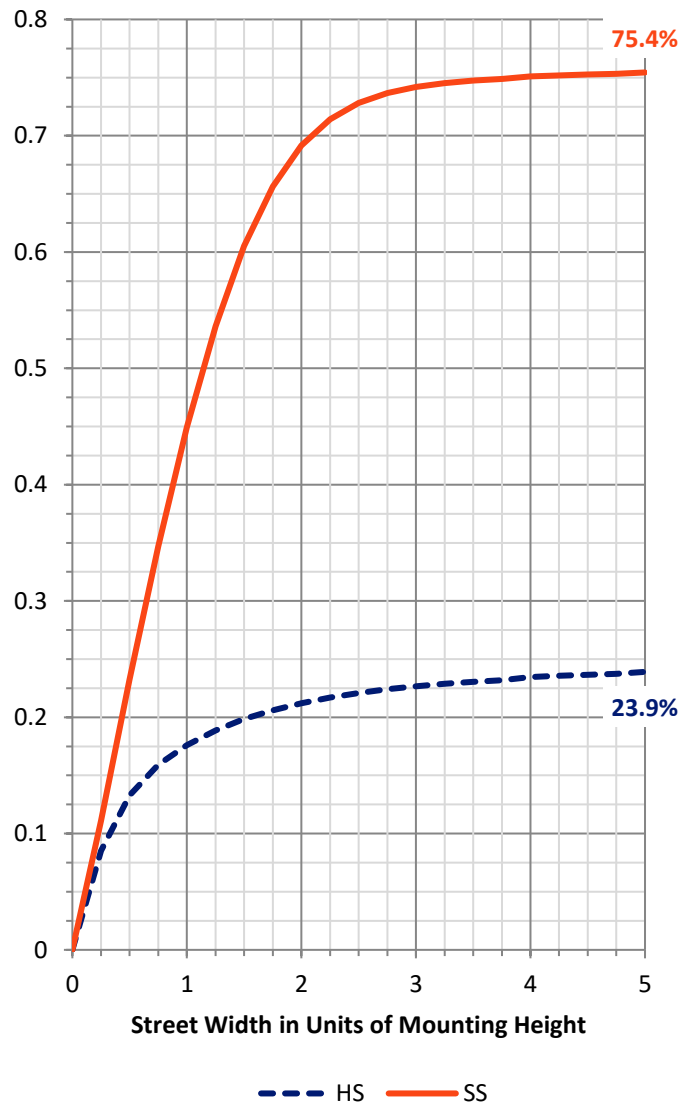
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11501.2	0.0	11501.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	35844.6	0.0	35844.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	47345.8	0.0	47345.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.9	1.3
10°-20°	1949.7	4.1
20°-30°	3471.0	7.3
30°-40°	5340.5	11.3
40°-50°	7570.6	16.0
50°-60°	10958.3	23.1
60°-70°	11340.7	24.0
70°-80°	5310.9	11.2
80°-90°	786.2	1.7
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°	47345.8	100.0
0°-180°	47345.8	100.0

Coefficient of Utilization

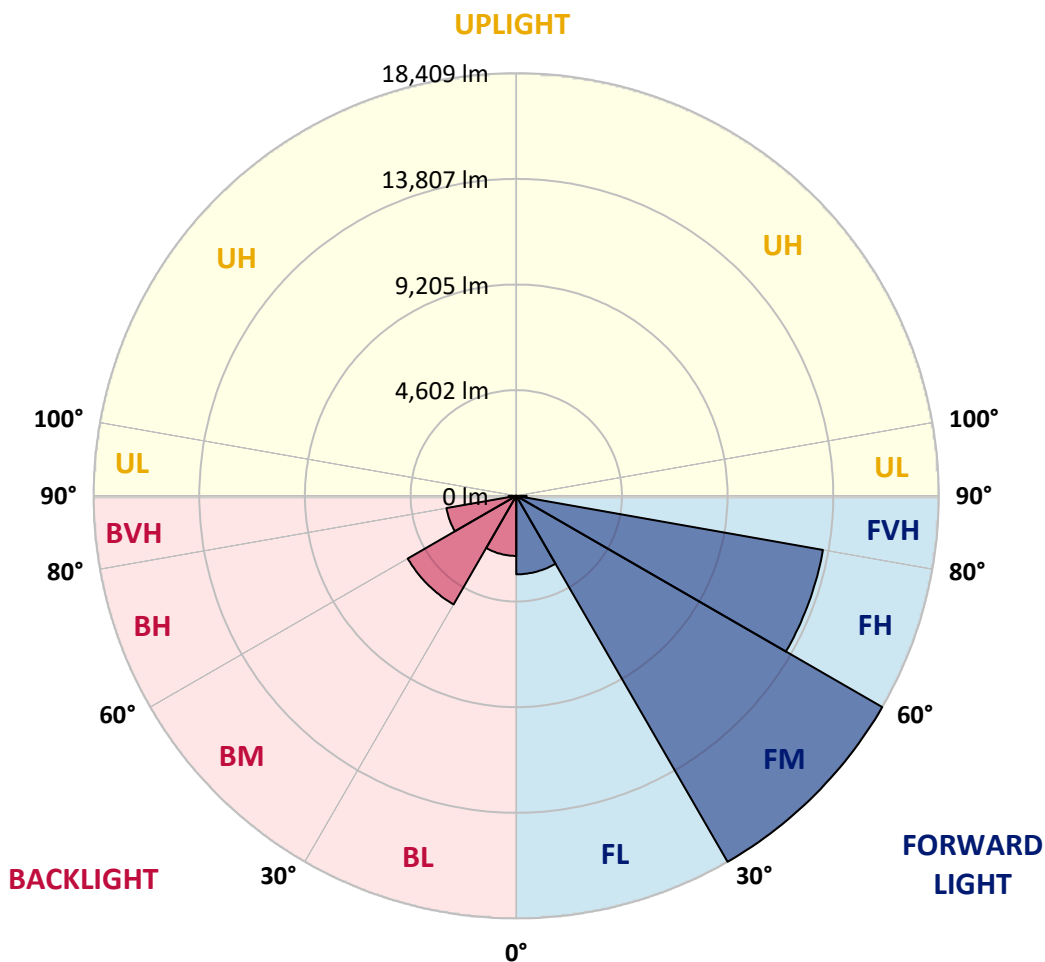


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3419.1	7.2			
FM (30°-60°)	18409.3	38.9			
FH (60°-80°)	13566.0	28.7			G5
FVH (80°-90°)	450.2	1.0			G3/500
BL (0°-30°)	2619.5	5.5	B4/5000		
BM (30°-60°)	5460.1	11.5	B4/8500		
BH (60°-80°)	3085.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	336.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4
2.5°	6423.6	6421.0	6428.9	6421.0	6426.2	6407.8	6399.8	6405.1	6397.2	6384.0	6360.3
5°	6502.8	6500.2	6502.8	6492.3	6497.6	6487.0	6468.5	6473.8	6460.6	6431.5	6397.2
7.5°	6637.4	6626.8	6626.8	6624.2	6613.6	6597.8	6584.6	6579.3	6566.1	6529.2	6476.4
10°	6811.6	6811.6	6814.2	6793.1	6806.3	6777.3	6764.1	6761.5	6716.6	6669.0	6595.2
12.5°	7041.2	7054.4	7046.5	7035.9	7030.6	7020.1	6975.2	6985.8	6935.6	6853.8	6764.1
15°	7326.2	7347.3	7334.1	7328.8	7315.7	7276.1	7257.6	7249.7	7183.7	7064.9	6946.2
17.5°	7703.6	7677.2	7666.6	7653.4	7598.0	7569.0	7537.4	7532.1	7474.0	7334.1	7149.4
20°	8033.5	8070.4	8049.3	8036.2	7980.8	7925.3	7901.5	7893.6	7843.5	7690.4	7394.8
22.5°	8426.7	8434.6	8442.5	8410.9	8384.5	8342.3	8300.1	8286.9	8268.4	8110.0	7748.5
25°	8846.3	8878.0	8851.6	8820.0	8788.3	8785.7	8825.2	8820.0	8812.0	8658.9	8218.3
27.5°	9529.9	9558.9	9566.8	9532.5	9411.1	9421.6	9511.4	9540.5	9661.8	9408.5	8822.6
30°	9915.2	9944.2	10010.2	10139.5	10332.2	10501.1	10717.5	10783.5	10899.6	10421.9	9540.5
32.5°	10152.7	10163.2	10282.1	10522.2	11100.2	11730.9	12319.5	12343.2	12417.1	11746.8	10197.5
35°	10527.5	10535.4	10630.4	10894.3	11572.6	12622.9	13533.5	13562.5	13501.8	12158.4	10503.8
37.5°	10989.3	11010.5	11071.1	11290.2	12100.4	13369.8	14037.5	14016.4	13478.0	12485.7	11044.8
40°	11662.3	11662.3	11591.0	11886.6	12657.2	13797.4	14214.3	14177.4	14034.9	13433.1	11868.1
42.5°	12256.1	12245.5	12414.4	12615.0	13354.0	14457.1	14955.9	15016.6	15251.5	14623.4	12805.1
45°	13029.4	13076.9	13171.9	13536.1	14539.0	15584.1	16228.0	16286.0	16618.6	16024.8	13900.3
47.5°	13810.6	13826.4	14124.6	14610.2	16006.3	17112.1	17639.9	17734.9	18038.4	17663.7	15080.0
50°	14364.8	14515.2	14992.8	15758.2	17518.5	18975.3	19387.0	19500.5	20036.2	19447.7	16454.9
52.5°	14950.6	15098.5	15681.7	16848.2	19255.0	20880.8	21387.5	21464.0	22020.8	21252.9	17861.6
55°	15452.1	15589.3	16251.7	17814.1	20638.0	22825.8	23744.2	23654.5	23921.1	22643.7	18946.3
57.5°	15533.9	15644.7	16478.7	18431.6	21677.8	24493.7	25810.6	25863.4	25554.6	23683.5	19841.0
60°	14900.5	15127.5	16085.5	18365.7	22144.9	25655.0	27351.9	27388.8	26512.7	24216.6	20197.2
62.5°	13778.9	13755.1	14913.7	17304.8	21490.4	25918.9	28259.8	28220.2	26887.4	23960.6	19851.5
64°	12229.7	12514.8	13596.8	16001.0	20434.8	25512.4	28354.7	28333.6	26708.0	23427.5	19262.9
65°	11284.9	11269.1	12337.9	14934.8	19384.4	24900.2	28185.9	28156.8	26333.2	22949.8	18806.4
67.5°	8147.0	8183.9	9239.6	11525.1	15758.2	22506.4	27085.3	26977.2	24855.3	21366.4	17069.9
70°	4935.2	4956.3	5785.0	7645.5	11311.3	18194.1	24414.6	24419.9	22593.5	19001.7	14528.4
72.5°	2599.5	2655.0	2987.5	4341.3	6869.6	12765.5	19806.6	20276.4	19397.6	16217.4	11477.5
75°	1446.3	1454.2	1689.1	2140.3	3504.8	7144.1	14887.3	15021.9	15357.1	13053.1	8487.5
77.5°	1103.1	1119.0	1192.9	1382.9	1908.1	3312.1	9010.0	9685.6	10823.1	9202.6	4842.8
80°	894.7	910.5	973.9	1087.3	1269.4	1570.3	4185.7	4549.8	5792.9	4085.3	1889.6
82.5°	696.8	686.2	768.0	841.8	923.7	929.0	1718.1	1900.2	2359.3	1757.7	818.1
85°	517.3	517.3	583.2	567.4	596.4	543.6	757.4	836.6	944.8	746.9	380.0
87.5°	205.9	227.0	382.7	343.1	266.5	213.8	279.7	295.6	327.2	292.9	158.4
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°	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4	6352.4
2.5°	6362.9	6370.8	6352.4	6339.2	6333.9	6326.0	6318.1	6320.7	6331.3	6341.8	6339.2
5°	6394.6	6397.2	6365.5	6349.7	6339.2	6328.6	6328.6	6336.5	6357.6	6373.5	6373.5
7.5°	6473.8	6473.8	6428.9	6399.8	6384.0	6365.5	6360.3	6362.9	6378.7	6399.8	6402.5
10°	6597.8	6587.2	6529.2	6484.4	6455.3	6410.4	6370.8	6349.7	6357.6	6370.8	6370.8
12.5°	6748.3	6719.3	6645.3	6584.6	6513.4	6428.9	6347.1	6304.9	6302.2	6315.4	6310.1
15°	6909.2	6877.5	6774.7	6663.8	6539.8	6415.7	6318.1	6257.4	6209.9	6196.7	6225.7
17.5°	7096.6	7030.6	6888.1	6735.1	6550.3	6389.3	6236.3	6112.2	6027.8	6004.0	6011.9
20°	7323.6	7236.5	7043.8	6803.7	6542.4	6294.3	6056.8	5890.5	5753.3	5711.1	5716.4
22.5°	7637.6	7487.2	7204.8	6838.0	6476.4	6114.8	5785.0	5568.5	5402.2	5336.3	5375.9
25°	7993.9	7830.3	7357.9	6830.1	6304.9	5827.2	5463.0	5180.6	5030.2	4932.5	4953.7
27.5°	8484.8	8194.5	7521.5	6758.8	6059.4	5476.2	5053.9	4787.4	4650.1	4600.0	4623.7
30°	9112.9	8666.9	7698.3	6566.1	5671.5	5032.8	4642.2	4468.1	4386.2	4322.9	4344.0
32.5°	9566.8	8999.5	7738.0	6241.6	5251.9	4629.0	4362.4	4233.2	4143.4	4082.7	4095.9
35°	9891.4	9281.8	7719.5	5843.0	4813.8	4296.5	4140.7	4035.2	3890.0	3758.1	3734.4
37.5°	10326.9	9635.4	7584.8	5407.5	4380.9	4072.2	3961.4	3766.0	3557.5	3380.7	3372.8
40°	10994.6	10049.8	7297.2	4895.5	4011.5	3905.9	3771.3	3518.0	3293.6	3151.1	3140.5
42.5°	11683.4	10432.4	6906.6	4357.2	3708.0	3731.7	3568.1	3317.4	3180.2	3087.8	3077.2
45°	12525.3	10846.8	6484.4	3890.0	3483.7	3568.1	3391.2	3246.1	3164.3	3103.6	3087.8
47.5°	13435.8	11271.7	6009.3	3470.5	3293.6	3417.7	3317.4	3251.4	3206.6	3164.3	3145.8
50°	14417.5	11746.8	5563.3	3132.6	3122.0	3262.0	3309.5	3285.7	3259.3	3246.1	3230.3
52.5°	15494.3	12232.3	5188.5	2895.1	2971.7	3151.1	3312.1	3330.6	3330.6	3322.6	3312.1
55°	16222.7	12570.2	4808.5	2702.5	2818.6	3061.4	3306.8	3378.0	3404.5	3393.9	3383.3
57.5°	16761.0	12754.9	4330.8	2536.2	2689.3	2974.3	3277.8	3383.3	3409.8	3423.0	3417.7
60°	16871.9	12583.4	3705.4	2362.0	2549.4	2847.6	3172.3	3304.2	3338.5	3420.3	3428.3
62.5°	16373.1	12055.5	3082.5	2190.5	2377.8	2655.0	3029.7	3214.5	3283.1	3409.8	3423.0
64°	15760.8	11464.3	2736.8	2082.2	2267.0	2546.7	2958.5	3190.7	3280.4	3449.4	3459.9
65°	15312.2	11034.2	2520.4	2013.7	2195.8	2475.5	2918.9	3198.7	3304.2	3510.0	3525.9
67.5°	13660.1	9553.6	2084.9	1852.6	2026.8	2354.1	2926.8	3264.6	3298.9	3533.8	3531.2
70°	11303.4	7605.9	1747.1	1704.9	1863.2	2256.5	2895.1	3159.0	3161.7	3317.4	3280.4
72.5°	8463.7	5621.3	1514.9	1551.8	1681.2	2024.2	2734.2	3016.5	2971.7	2992.8	2955.8
75°	5814.0	3718.6	1303.7	1388.2	1491.1	1789.3	2507.2	2739.4	2668.2	2641.7	2615.3
77.5°	3103.6	2055.9	1084.7	1227.2	1295.8	1546.5	2187.9	2412.2	2338.2	2235.4	2201.1
80°	1256.2	968.6	873.5	1016.1	1055.6	1245.7	1821.0	1960.9	1905.5	1726.0	1668.0
82.5°	630.8	580.6	686.2	799.6	802.3	889.4	1353.8	1485.8	1361.7	1142.8	1092.6
85°	329.9	340.4	472.4	562.1	496.2	480.3	812.8	900.0	826.0	717.9	646.6
87.5°	118.7	137.3	248.1	245.4	174.2	92.3	179.5	87.1	47.5	29.0	36.9
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)