

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: P531752

Luminaire Tested: **GALN-SA7A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27990 lumens
Efficiency: N/A
Efficacy: 130.2 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

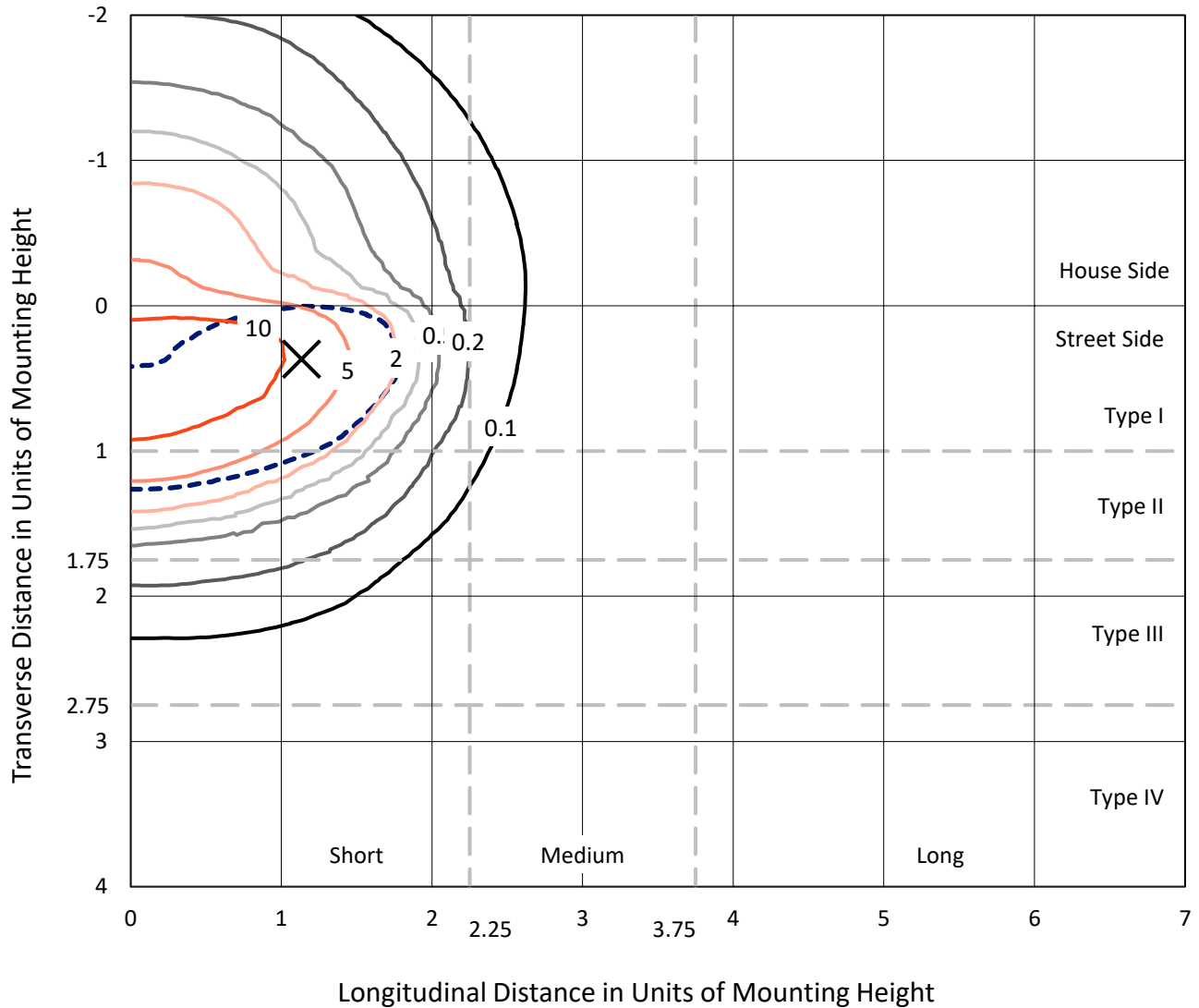
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

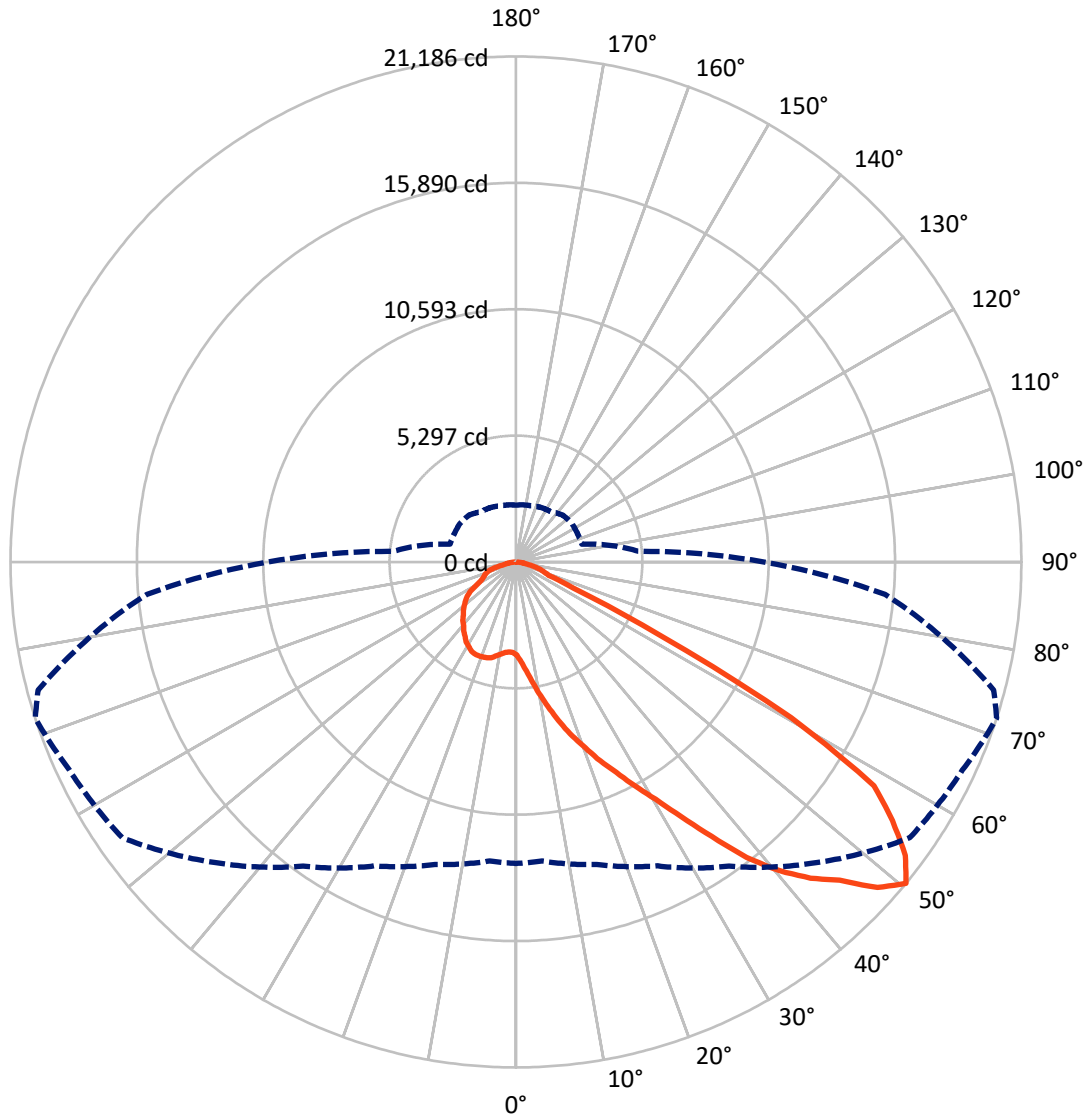
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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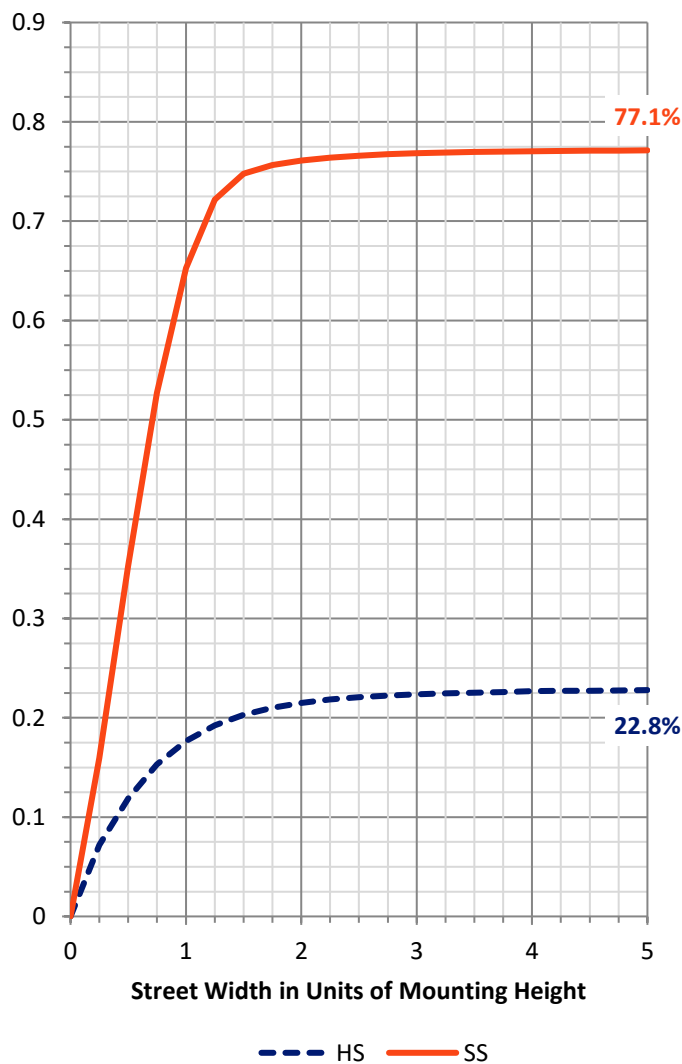
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6412.7	0.0	6412.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21577.3	0.0	21577.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	27990.0	0.0	27990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.3	1.6
10°-20°	1713.4	6.1
20°-30°	3322.1	11.9
30°-40°	5503.5	19.7
40°-50°	7700.6	27.5
50°-60°	6496.5	23.2
60°-70°	1980.1	7.1
70°-80°	694.7	2.5
80°-90°	120.8	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°	27990.0	100.0
0°-180°	27990.0	100.0

Coefficient of Utilization

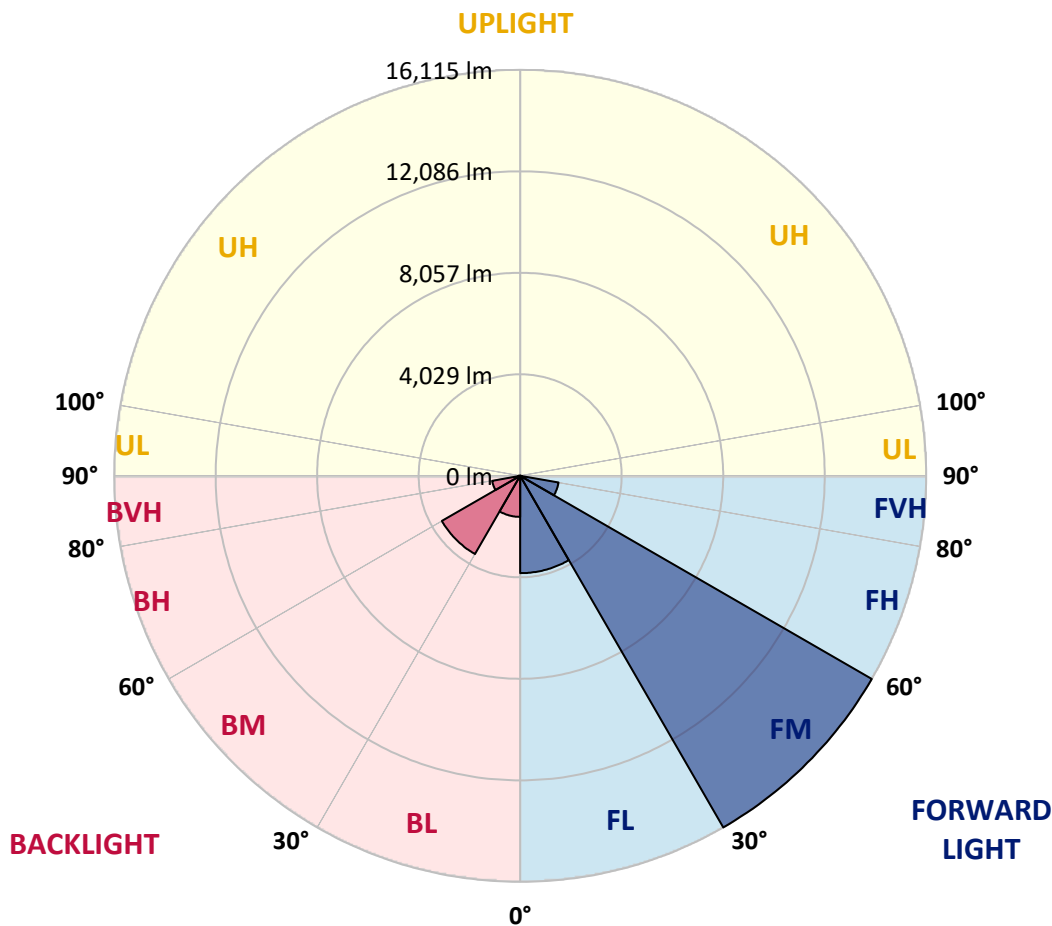


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3863.6	13.8			
FM (30°-60°)	16114.6	57.6			
FH (60°-80°)	1545.0	5.5			G1/1800
FVH (80°-90°)	54.1	0.2			G1/100
BL (0°-30°)	1630.1	5.8	B3/2500		
BM (30°-60°)	3586.1	12.8	B3/5000		
BH (60°-80°)	1129.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	66.7	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4
2.5°	5011.7	4980.5	4887.0	4855.8	4745.0	4544.1	4474.9	4270.5	4183.9	4104.3	4010.7
5°	6338.2	6192.8	6182.4	6005.7	5749.4	5600.5	5157.2	4859.3	4585.7	4447.1	4190.8
7.5°	7183.3	7186.8	7186.8	7041.3	6837.0	6459.4	6061.1	5524.3	5112.1	4907.8	4471.4
10°	7986.8	7917.6	7879.5	7865.6	7727.1	7360.0	6933.9	6268.9	5704.4	5465.4	4682.7
12.5°	8554.9	8496.0	8582.6	8537.5	8437.1	8198.1	7796.4	7037.8	6331.3	6009.2	5022.1
15°	8825.0	8866.6	8935.9	9060.5	9015.5	8925.5	8482.1	7827.5	7006.7	6643.0	5323.4
17.5°	9240.6	9126.3	9209.5	9365.3	9490.0	9448.5	9195.6	8399.0	7675.1	7228.3	5728.6
20°	9531.6	9465.8	9507.3	9687.4	9780.9	10016.5	9884.9	9147.1	8315.9	7844.8	6206.6
22.5°	10362.8	10265.8	10130.8	10158.5	10193.1	10359.4	10390.5	9968.0	9060.5	8561.8	6660.3
25°	11388.0	11298.0	11138.6	10975.9	10875.4	10844.2	10951.6	10612.2	9774.0	9258.0	7148.7
27.5°	12517.1	12364.7	12264.3	11928.3	11658.2	11616.6	11564.7	11381.1	10619.1	10061.5	7699.4
30°	13615.1	13493.8	13358.8	12821.9	12541.4	12496.3	12240.0	12292.0	11536.9	10917.0	8322.8
32.5°	14446.3	14456.7	14148.4	13743.2	13480.0	13241.0	13147.5	13296.4	12714.5	12215.8	9019.0
35°	15118.2	15149.4	14855.0	14487.9	14203.8	14370.1	14328.5	14397.8	14120.7	13511.1	9829.4
37.5°	15772.8	15617.0	15301.8	15125.1	14976.2	15249.8	15603.1	15662.0	15713.9	14997.0	10771.5
40°	15880.2	15894.0	15710.5	15835.2	15648.1	16060.3	16881.1	16804.9	17016.2	16389.3	11793.2
42.5°	15727.8	15759.0	15831.7	16008.3	16458.6	16953.9	18173.0	17861.3	18117.6	17560.0	12787.3
45°	15478.4	15350.3	15440.3	16112.2	16891.5	17992.9	19354.1	19111.6	19028.5	18560.9	13971.8
47.5°	14287.0	14418.6	14699.1	15526.9	16697.6	18173.0	20192.3	20136.8	20386.2	20057.2	15048.9
50°	12634.9	12582.9	13123.2	14054.9	15565.0	17819.7	20147.2	20649.4	21186.3	20729.1	15530.4
52.5°	9462.3	9739.4	10203.5	11360.3	13514.6	15894.0	19163.6	20001.8	20438.2	20341.2	15142.5
55°	5981.5	6064.6	6345.1	7720.2	9659.7	12756.1	16427.4	18370.4	19149.7	19513.4	14785.7
57.5°	2905.9	2750.0	3092.9	4197.8	5579.7	8579.1	12669.5	16001.4	17695.1	18353.1	14009.9
60°	1517.0	1575.9	1711.0	2105.8	2885.1	4454.1	7896.8	10664.1	13251.4	14262.7	10619.1
62.5°	1257.3	1278.0	1368.1	1565.5	1918.8	2563.0	4031.5	5198.7	6757.3	7668.2	6040.4
65°	1066.8	1077.2	1174.1	1305.7	1530.9	1804.5	2074.6	2171.6	2628.8	2698.1	2147.4
67.5°	890.1	900.5	1004.4	1129.1	1274.6	1347.3	1416.6	1409.6	1461.6	1440.8	1437.4
70°	685.8	696.2	803.5	935.1	1007.9	966.3	1181.1	1229.5	1250.3	1267.6	1295.4
72.5°	495.3	516.1	599.2	692.7	654.6	751.6	973.2	1046.0	1073.7	1084.1	1118.7
75°	360.2	367.1	387.9	360.2	415.6	523.0	685.8	775.8	810.5	820.9	872.8
77.5°	159.3	162.8	166.2	207.8	266.7	325.6	408.7	481.4	529.9	543.8	557.6
80°	83.1	86.6	107.4	142.0	190.5	239.0	297.9	339.4	370.6	374.1	387.9
82.5°	52.0	55.4	76.2	100.4	135.1	176.6	218.2	252.8	277.1	280.5	284.0
85°	24.2	31.2	45.0	62.3	90.1	114.3	117.8	100.4	107.4	110.8	103.9
87.5°	6.9	10.4	13.9	10.4	13.9	13.9	17.3	20.8	20.8	20.8	24.2
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°	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4	3896.4
2.5°	3958.8	3927.6	3806.4	3761.4	3643.6	3664.4	3602.0	3598.6	3584.7	3581.3	3577.8
5°	4055.8	3958.8	3813.3	3702.5	3636.7	3629.8	3584.7	3584.7	3598.6	3609.0	3584.7
7.5°	4215.1	4104.3	3858.3	3754.4	3695.6	3685.2	3654.0	3629.8	3660.9	3650.5	3622.8
10°	4398.7	4204.7	3944.9	3854.9	3757.9	3733.7	3733.7	3744.1	3692.1	3709.4	3681.7
12.5°	4603.0	4343.2	4055.8	3951.9	3837.6	3823.7	3816.8	3740.6	3768.3	3754.4	3685.2
15°	4862.8	4502.6	4197.8	4021.1	3924.2	3861.8	3771.8	3757.9	3740.6	3706.0	3674.8
17.5°	5143.3	4675.7	4263.6	4041.9	3896.4	3851.4	3782.2	3709.4	3657.5	3664.4	3640.1
20°	5382.3	4835.1	4287.8	4062.7	3875.7	3789.1	3681.7	3636.7	3581.3	3577.8	3574.3
22.5°	5666.3	5049.8	4322.5	4007.3	3813.3	3723.3	3650.5	3570.9	3532.8	3484.3	3508.5
25°	6005.7	5132.9	4329.4	3976.1	3768.3	3609.0	3570.9	3484.3	3470.4	3401.2	3415.0
27.5°	6251.6	5177.9	4274.0	3879.1	3664.4	3543.2	3473.9	3411.6	3387.3	3335.4	3321.5
30°	6580.7	5247.2	4156.2	3757.9	3560.5	3425.4	3383.8	3370.0	3300.7	3245.3	3238.4
32.5°	6954.7	5292.2	4080.0	3633.2	3453.1	3349.2	3370.0	3304.2	3217.6	3169.1	3155.3
35°	7252.6	5309.6	3889.5	3491.2	3380.4	3314.6	3290.3	3276.5	3151.8	3106.8	3072.1
37.5°	7706.3	5271.5	3730.2	3390.8	3300.7	3276.5	3255.7	3162.2	3020.2	2954.4	2905.9
40°	8236.2	5261.1	3525.9	3248.8	3224.5	3252.2	3189.9	3044.4	2847.0	2774.3	2739.6
42.5°	8745.4	5333.8	3397.7	3172.6	3141.4	3151.8	3065.2	2847.0	2750.0	2708.5	2653.0
45°	9597.4	5486.2	3186.4	3054.8	3041.0	3034.0	2930.1	2701.5	2646.1	2594.2	2583.8
47.5°	10366.3	5385.8	3051.4	2933.6	2947.4	2909.3	2687.7	2614.9	2552.6	2500.7	2483.3
50°	10411.3	5146.8	2860.9	2840.1	2843.5	2777.7	2566.5	2518.0	2438.3	2403.7	2379.4
52.5°	10175.8	4755.4	2684.2	2691.1	2701.5	2594.2	2417.5	2382.9	2317.1	2268.6	2254.7
55°	9514.3	4145.8	2511.0	2538.8	2566.5	2362.1	2306.7	2220.1	2168.2	2098.9	2102.3
57.5°	8381.7	3338.8	2268.6	2313.6	2372.5	2147.4	2105.8	1998.4	1922.2	1866.8	1859.9
60°	5617.8	2376.0	1904.9	1922.2	2053.9	1963.8	1960.3	1853.0	1749.1	1700.6	1672.9
62.5°	3314.6	1814.9	1645.2	1627.8	1624.4	1676.3	1762.9	1724.8	1589.8	1496.2	1523.9
65°	1735.2	1569.0	1530.9	1472.0	1437.4	1423.5	1489.3	1506.6	1416.6	1316.1	1309.2
67.5°	1458.1	1458.1	1427.0	1406.2	1357.7	1298.8	1257.3	1201.8	1188.0	1160.3	1125.6
70°	1326.5	1361.2	1350.8	1302.3	1260.7	1194.9	1087.5	997.5	910.9	879.7	900.5
72.5°	1156.8	1191.4	1191.4	1167.2	1111.8	1011.3	907.4	803.5	730.8	675.4	668.5
75°	890.1	907.4	949.0	921.3	848.6	786.2	678.8	571.5	502.2	450.3	439.9
77.5°	568.0	595.7	595.7	592.3	540.3	481.4	412.2	336.0	284.0	245.9	235.5
80°	377.5	394.8	408.7	394.8	360.2	315.2	263.2	211.3	173.2	142.0	135.1
82.5°	277.1	297.9	308.3	294.4	259.8	225.1	187.0	148.9	110.8	86.6	79.7
85°	107.4	110.8	124.7	148.9	145.5	142.0	114.3	83.1	62.3	45.0	41.6
87.5°	27.7	24.2	27.7	27.7	24.2	20.8	20.8	20.8	20.8	10.4	13.9
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)