

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: P453522

Luminaire Tested: **GALN-SA4C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27751 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

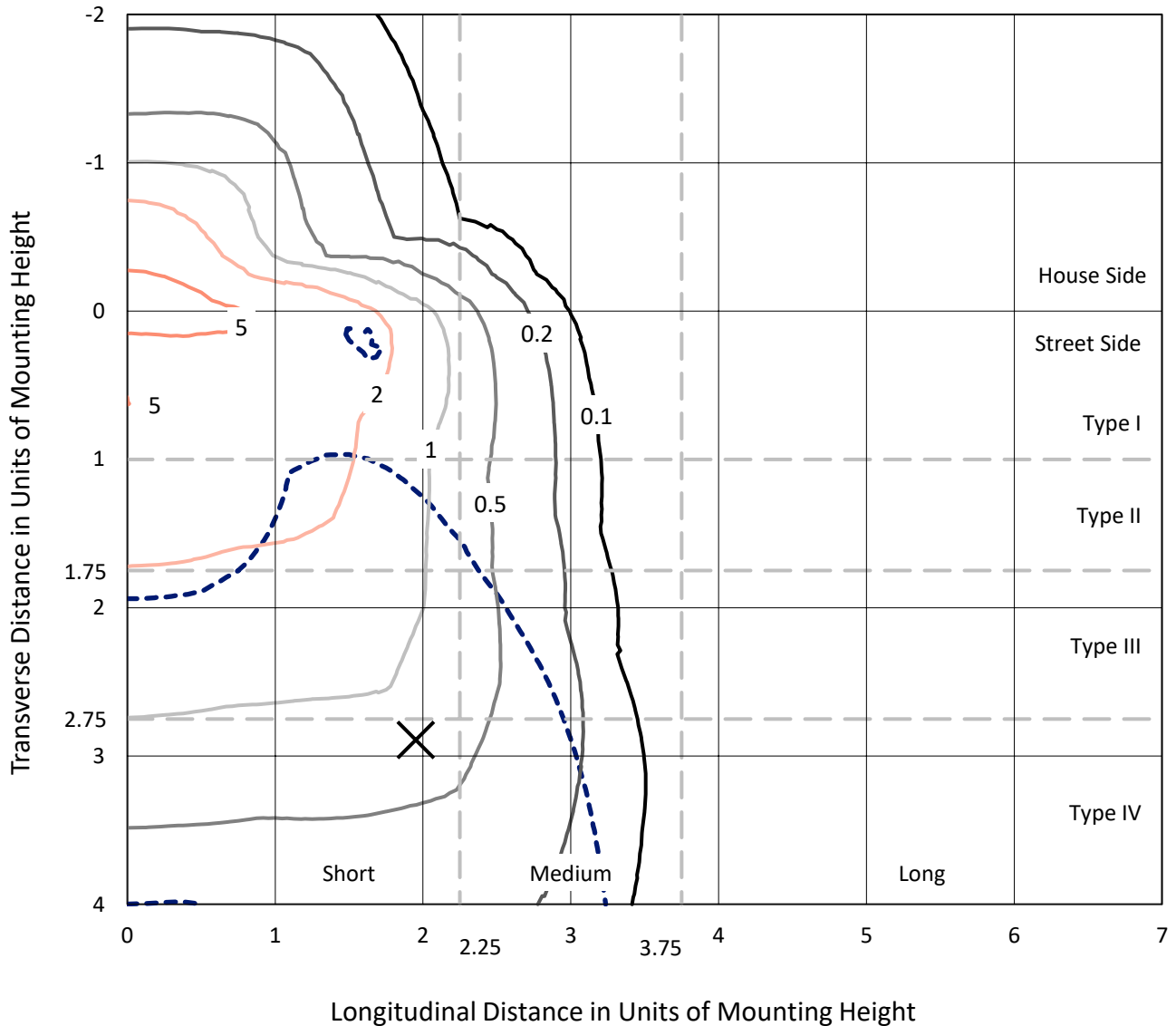
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453522
 CATALOG NUMBER: GALN-SA4C-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

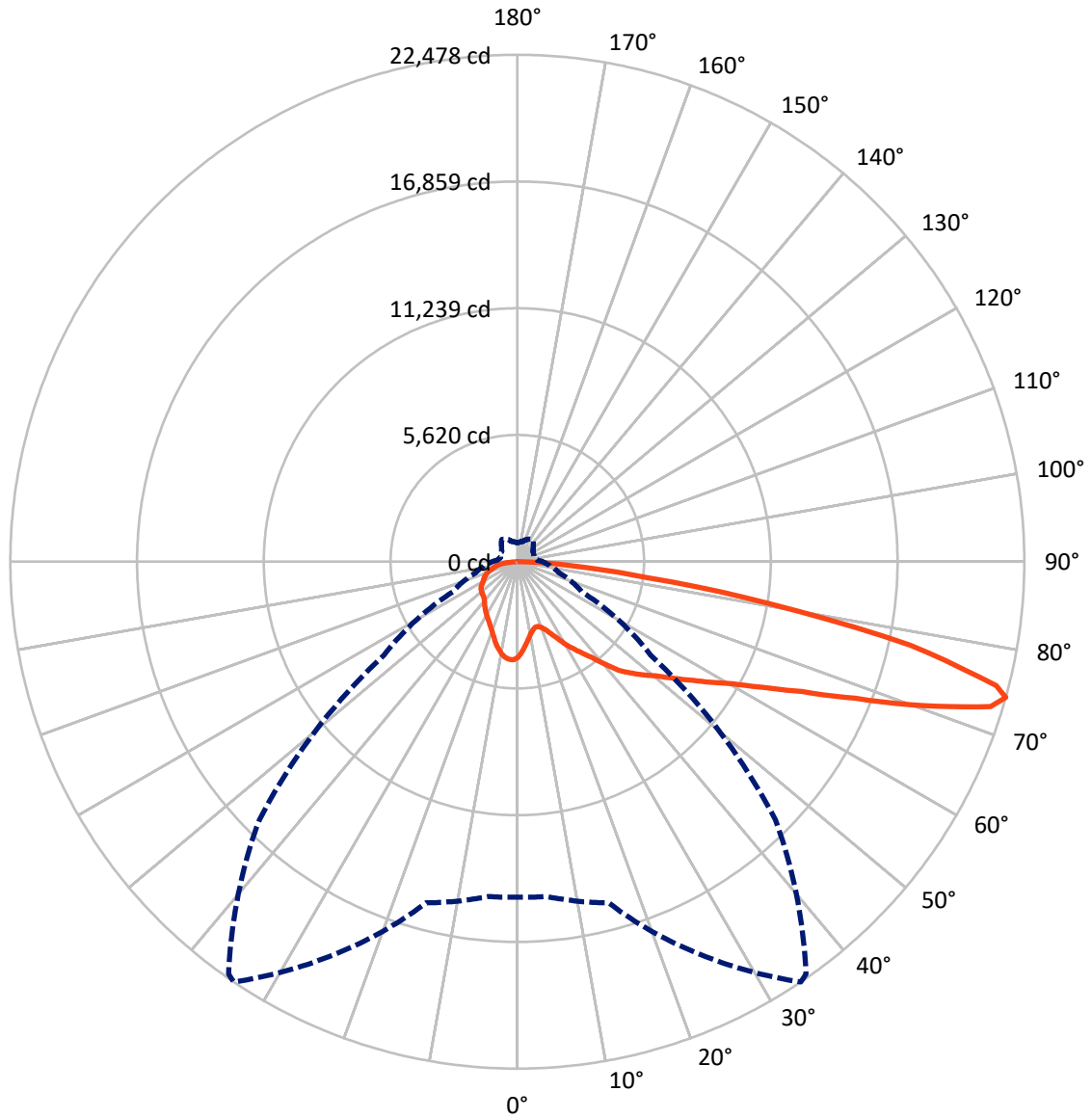
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P453522
CATALOG NUMBER: GALN-SA4C-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P453522

CATALOG NUMBER: GALN-SA4C-740-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5905.6	0.0	5905.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21845.4	0.0	21845.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	27751.0	0.0	27751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.3	1.4
10°-20°	1054.9	3.8
20°-30°	1739.2	6.3
30°-40°	2605.1	9.4
40°-50°	3787.1	13.6
50°-60°	5289.7	19.1
60°-70°	6622.4	23.9
70°-80°	5476.2	19.7
80°-90°	791.3	2.9
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°	27751.0	100.0
0°-180°	27751.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453522

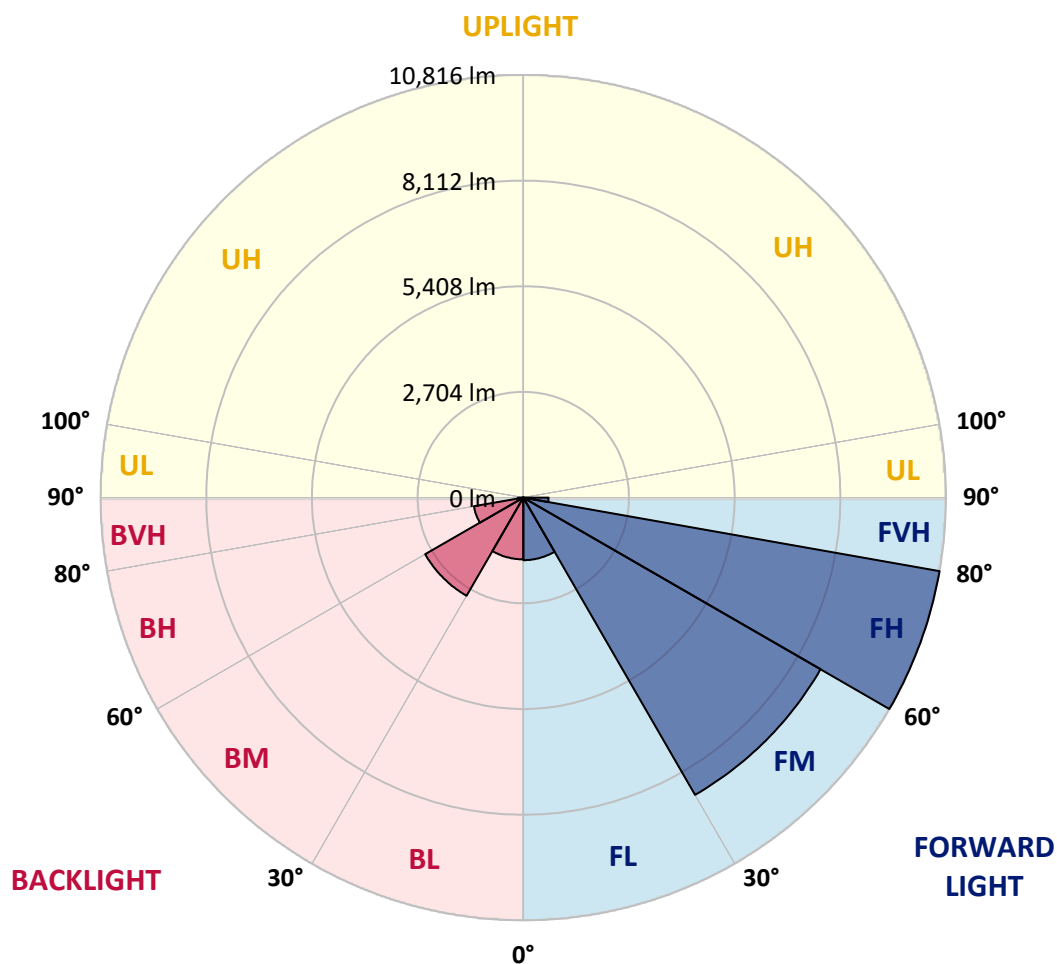
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1599.7	5.8			
FM	(30°-60°)	8781.6	31.6			
FH	(60°-80°)	10815.9	39.0			G4/12000
FVH	(80°-90°)	648.2	2.3			G4/750
BL	(0°-30°)	1579.7	5.7	B3/2500		
BM	(30°-60°)	2900.3	10.5	B3/5000		
BH	(60°-80°)	1282.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	143.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P453522

CATALOG NUMBER: GALN-SA4C-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0
2.5°	3915.7	3935.7	3946.5	3984.9	3994.1	4006.4	4038.7	4081.8	4137.1	4186.3	4229.3
5°	3589.8	3620.5	3639.0	3672.8	3738.9	3745.1	3831.2	3929.6	4041.8	4146.3	4232.4
7.5°	3280.8	3314.6	3330.0	3391.5	3479.1	3492.9	3619.0	3774.3	3961.8	4120.2	4252.4
10°	3048.6	3065.5	3099.4	3145.5	3250.0	3259.3	3423.8	3631.3	3874.2	4107.9	4286.2
12.5°	2922.6	2931.8	2939.5	2988.7	3091.7	3105.5	3277.7	3512.9	3805.0	4117.1	4341.6
15°	2941.0	2944.1	2910.3	2919.5	3002.5	3022.5	3193.1	3434.5	3762.0	4140.2	4424.6
17.5°	3096.3	3085.5	3002.5	2959.5	3017.9	3027.1	3176.2	3403.8	3742.0	4183.2	4510.7
20°	3340.7	3325.4	3182.4	3087.1	3120.9	3128.6	3231.6	3426.8	3762.0	4253.9	4644.4
22.5°	3645.1	3639.0	3422.2	3306.9	3305.4	3305.4	3359.2	3509.8	3821.9	4350.8	4784.3
25°	4071.0	4038.7	3755.8	3606.7	3565.2	3562.1	3556.0	3646.7	3898.8	4453.8	4950.4
27.5°	4507.6	4452.3	4200.1	3971.1	3881.9	3871.1	3831.2	3840.4	3997.2	4570.6	5139.5
30°	4899.6	4864.3	4627.5	4373.9	4267.8	4243.2	4132.5	4081.8	4161.7	4781.3	5440.8
32.5°	5199.4	5177.9	4993.4	4762.8	4606.0	4601.4	4440.0	4398.5	4418.4	5036.5	5785.2
35°	5442.3	5450.0	5356.2	5156.4	4976.5	4950.4	4842.8	4790.5	4732.1	5405.4	6218.7
37.5°	5774.4	5791.3	5785.2	5613.0	5393.1	5399.3	5374.7	5288.6	5133.3	5817.5	6699.9
40°	6140.3	6152.6	6151.1	6085.0	5969.7	5975.8	5966.6	5868.2	5636.0	6341.7	7234.9
42.5°	6646.1	6587.7	6435.5	6501.6	6569.2	6598.4	6661.5	6567.7	6249.5	6901.3	7737.7
45°	7211.9	7101.2	6756.8	6787.5	7038.1	7093.5	7440.9	7311.8	6915.2	7543.9	8329.5
47.5°	7568.5	7459.4	7168.8	7162.7	7494.7	7548.6	8163.5	8115.8	7520.9	8237.3	9052.1
50°	7886.8	7871.4	7543.9	7622.3	7946.7	8026.7	8950.6	8906.1	8125.1	9055.2	9839.3
52.5°	8358.8	8234.2	7972.9	8134.3	8563.2	8667.8	9731.6	9601.0	8680.1	9777.8	10603.3
55°	8570.9	8541.7	8526.3	8666.2	9255.0	9330.4	10491.1	10191.3	9153.6	10389.6	11184.5
57.5°	9138.2	9084.4	9236.6	9331.9	10069.9	10185.2	11284.4	10807.8	9568.7	10875.5	11467.3
60°	9873.1	9843.9	9983.8	10156.0	10980.0	11155.3	12188.4	11333.6	9902.3	11119.9	11312.1
62.5°	10970.8	10967.7	10941.6	11310.5	12269.9	12431.3	13226.1	11845.5	9954.6	10936.9	10509.6
65°	12545.0	12489.7	12262.2	12665.0	13874.9	14064.0	14306.9	12131.5	9639.4	9997.6	8849.2
67.5°	14191.6	14188.5	14004.0	14526.7	16179.4	16374.7	15658.3	12068.5	8764.6	8098.9	6284.8
70°	15556.8	15490.7	15725.9	17118.8	19123.5	19349.5	16840.5	11325.9	6981.3	5348.6	3734.3
72.5°	15884.2	15887.3	16376.2	19117.4	21950.8	21986.1	17266.4	9179.7	4672.1	2950.2	1867.9
74°	14875.7	14901.9	15659.8	19217.3	22478.1	22318.2	16177.9	7214.9	3159.3	1926.3	1346.7
75°	13578.2	13413.7	14509.8	18551.6	21930.8	21758.6	14903.4	5789.8	2410.6	1538.9	1179.2
77.5°	7259.5	7427.1	9118.2	13844.1	17816.7	17618.4	10105.2	2776.5	1302.2	1071.6	848.6
80°	2584.3	2850.3	4006.4	7244.2	11422.8	11484.3	4822.8	1273.0	916.3	790.2	599.6
82.5°	1054.6	1083.9	1720.3	3214.7	5800.5	5855.9	1969.4	756.4	654.9	544.2	358.2
85°	412.0	424.3	761.0	1445.1	2475.2	2636.6	681.1	399.7	402.8	312.1	182.9
87.5°	138.4	156.8	312.1	481.2	840.9	824.0	198.3	118.4	144.5	135.3	56.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453522
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0	4237.0
2.5°	4250.9	4280.1	4300.1	4321.6	4341.6	4347.7	4343.1	4356.9	4358.5	4360.0	4361.6
5°	4275.5	4315.4	4353.9	4375.4	4384.6	4376.9	4350.8	4337.0	4324.7	4315.4	4318.5
7.5°	4309.3	4366.2	4401.5	4410.8	4386.2	4350.8	4286.2	4235.5	4203.2	4181.7	4180.1
10°	4361.6	4416.9	4446.1	4420.0	4352.3	4266.2	4164.8	4069.5	3997.2	3975.7	3974.1
12.5°	4427.7	4490.7	4489.2	4412.3	4293.9	4140.2	3975.7	3865.0	3766.6	3717.4	3737.4
15°	4513.8	4561.4	4516.8	4378.5	4190.9	3980.3	3777.4	3626.7	3516.0	3463.7	3466.8
17.5°	4613.7	4655.2	4536.8	4318.5	4046.4	3775.8	3540.6	3397.6	3310.0	3271.6	3268.5
20°	4738.2	4750.5	4536.8	4214.0	3860.4	3537.5	3313.1	3213.1	3163.9	3143.9	3150.1
22.5°	4872.0	4847.4	4512.2	4066.4	3615.9	3288.5	3137.8	3093.2	3068.6	3065.5	3068.6
25°	5022.6	4953.4	4461.5	3866.5	3360.7	3073.2	2985.6	2993.3	2997.9	2997.9	3008.7
27.5°	5207.1	5068.8	4376.9	3614.4	3062.5	2873.4	2848.8	2902.6	2927.2	2931.8	2939.5
30°	5450.0	5194.8	4237.0	3299.2	2808.8	2693.5	2736.5	2808.8	2836.5	2853.4	2850.3
32.5°	5739.1	5333.2	4047.9	2984.1	2604.3	2567.4	2619.7	2693.5	2724.2	2733.5	2721.2
35°	6078.8	5490.0	3798.9	2688.9	2426.0	2447.5	2509.0	2532.1	2559.7	2559.7	2565.9
37.5°	6444.7	5616.1	3494.5	2418.3	2287.6	2366.0	2410.6	2389.1	2376.8	2361.4	2369.1
40°	6816.8	5709.8	3099.4	2150.8	2149.3	2281.5	2293.8	2232.3	2183.1	2167.7	2160.0
42.5°	7141.1	5768.3	2742.7	1943.3	2018.6	2198.5	2207.7	2109.3	2030.9	1984.8	1969.4
45°	7524.0	5835.9	2393.7	1771.1	1897.1	2132.4	2155.4	2023.2	1907.9	1811.0	1786.4
47.5°	8048.2	5989.6	2118.5	1637.3	1809.5	2090.8	2123.1	1952.5	1800.3	1674.2	1654.2
50°	8640.1	6200.3	1904.8	1546.6	1741.9	2053.9	2093.9	1880.2	1700.3	1560.4	1545.1
52.5°	9182.8	6314.0	1720.3	1465.1	1675.7	1986.3	2055.5	1827.9	1602.0	1446.7	1432.8
55°	9479.5	6129.5	1538.9	1385.2	1585.0	1898.7	2001.7	1755.7	1506.6	1386.7	1366.7
57.5°	9519.5	5748.3	1374.4	1299.1	1489.7	1791.1	1901.7	1668.1	1445.1	1345.2	1328.3
60°	9210.5	5179.4	1246.8	1228.4	1392.9	1669.6	1789.5	1591.2	1382.1	1299.1	1282.2
62.5°	8441.8	4561.4	1157.6	1163.8	1294.5	1542.0	1706.5	1517.4	1322.1	1248.4	1233.0
65°	7119.6	3765.1	1071.6	1097.7	1206.8	1442.1	1631.2	1455.9	1262.2	1209.9	1196.1
67.5°	4945.8	2718.1	1000.8	1028.5	1123.8	1340.6	1543.5	1389.8	1194.5	1166.9	1145.4
70°	2738.1	1672.7	917.8	950.1	1037.7	1226.8	1445.1	1289.9	1096.2	1083.9	1053.1
72.5°	1439.0	1065.4	824.0	859.4	920.9	1080.8	1294.5	1180.7	999.3	947.0	907.1
74°	1123.8	873.2	761.0	797.9	839.4	994.7	1205.3	1102.3	930.1	868.6	837.9
75°	979.3	777.9	707.2	754.9	791.8	936.3	1136.1	1047.0	891.7	833.3	805.6
77.5°	691.8	582.7	578.1	634.9	654.9	821.0	1023.9	953.2	794.8	733.3	707.2
80°	485.8	436.6	458.1	493.5	521.2	725.6	950.1	824.0	651.9	579.6	570.4
82.5°	316.7	286.0	327.5	359.7	369.0	535.0	767.2	625.7	475.1	385.9	358.2
85°	146.1	143.0	187.6	182.9	181.4	261.4	455.1	365.9	273.7	204.5	192.2
87.5°	36.9	35.4	46.1	38.4	46.1	40.0	41.5	10.8	1.5	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)