

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: P459318

Luminaire Tested: **GALN-SA7D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459318
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-SA7D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49775 lumens
Efficiency: N/A
Efficacy: 115.0 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

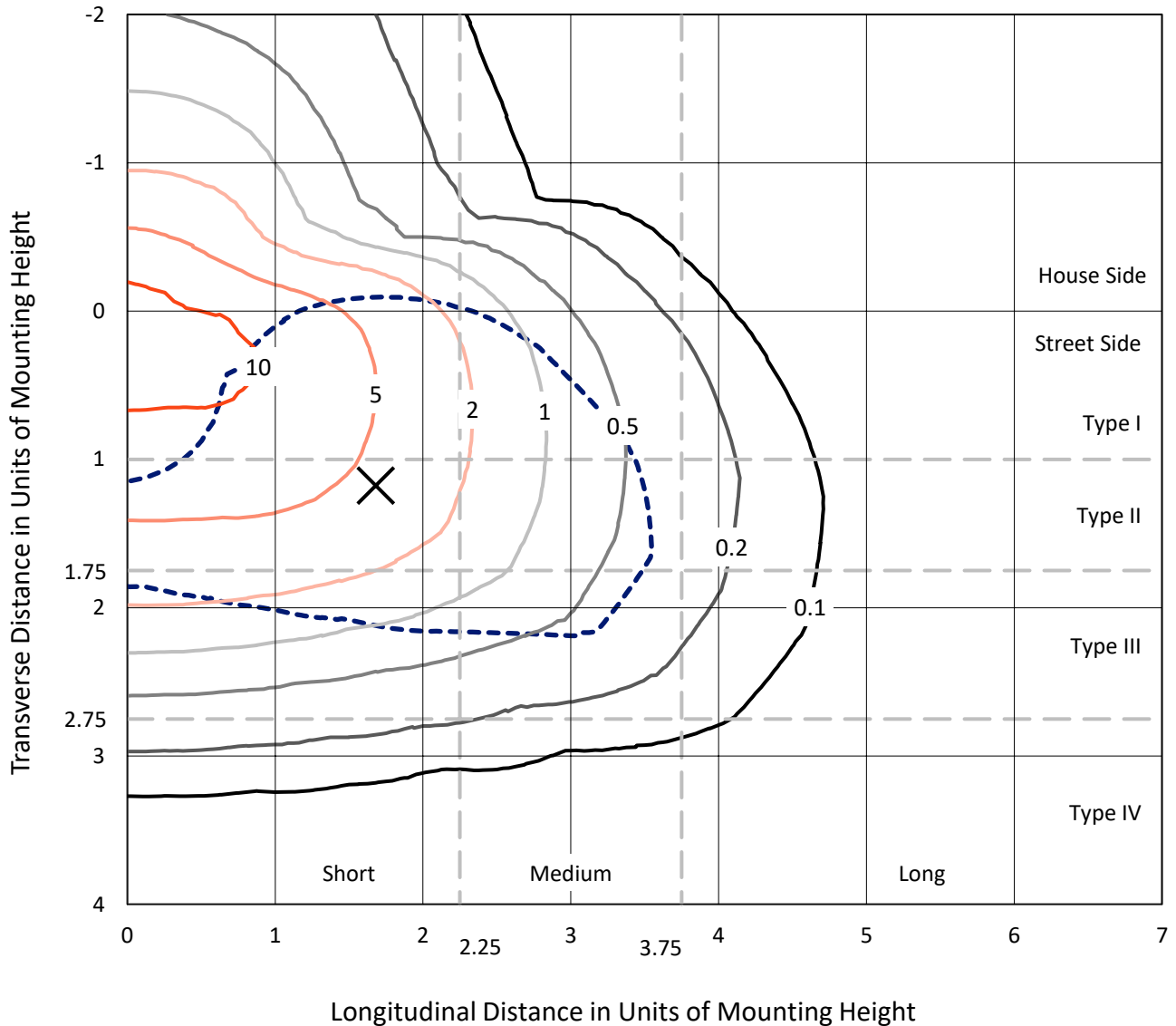
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459318
 CATALOG NUMBER: GALN-SA7D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

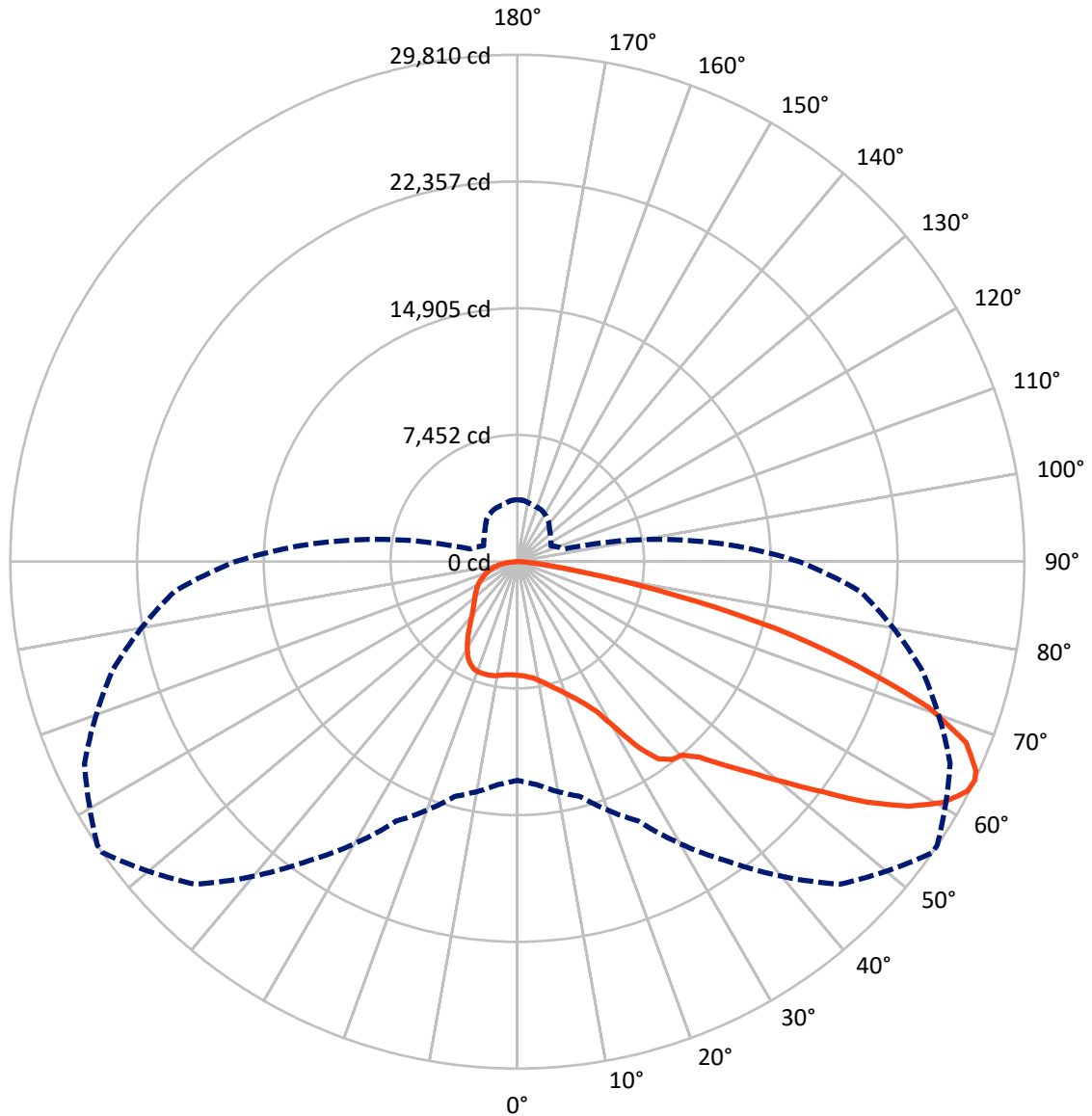
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

REPORT NUMBER: P459318
CATALOG NUMBER: GALN-SA7D-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459318

CATALOG NUMBER: GALN-SA7D-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12091.3	0.0	12091.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	37683.7	0.0	37683.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	49775.0	0.0	49775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.6	1.3
10°-20°	2049.7	4.1
20°-30°	3649.1	7.3
30°-40°	5614.5	11.3
40°-50°	7959.0	16.0
50°-60°	11520.5	23.1
60°-70°	11922.5	24.0
70°-80°	5583.3	11.2
80°-90°	826.5	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°	49775.0	100.0
0°-180°	49775.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459318

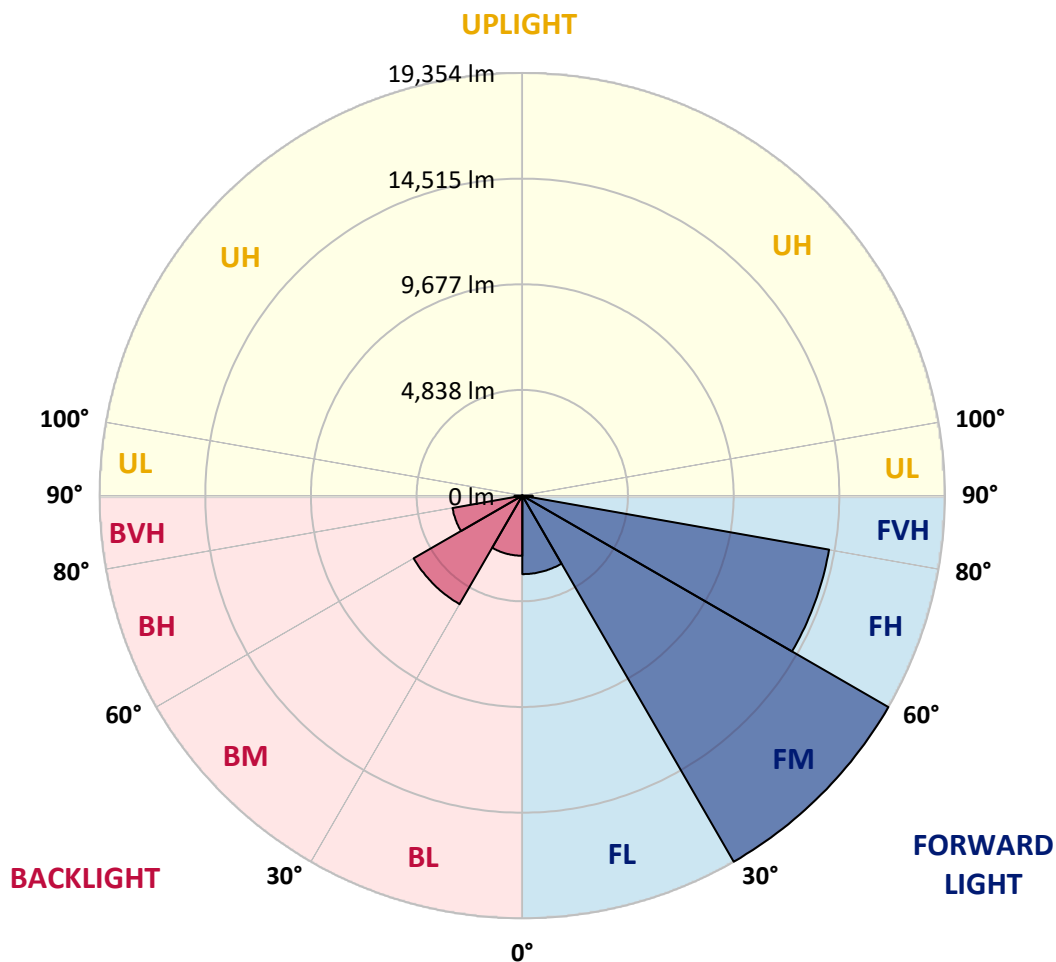
CATALOG NUMBER: GALN-SA7D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3594.5	7.2			
FM	(30°-60°)	19353.9	38.9			
FH	(60°-80°)	14262.0	28.7			G5
FVH	(80°-90°)	473.3	1.0			G3/500
BL	(0°-30°)	2753.9	5.5	B4/5000		
BM	(30°-60°)	5740.2	11.5	B4/8500		
BH	(60°-80°)	3243.9	6.5	B4/5000		G4/5000
BVH	(80°-90°)	353.3	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





REPORT NUMBER: P459318

CATALOG NUMBER: GALN-SA7D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3
2.5°	6753.2	6750.4	6758.8	6750.4	6756.0	6736.6	6728.2	6733.8	6725.5	6711.6	6686.6
5°	6836.5	6833.7	6836.5	6825.4	6830.9	6819.8	6800.4	6805.9	6792.1	6761.5	6725.5
7.5°	6978.0	6966.9	6966.9	6964.1	6953.0	6936.3	6922.5	6916.9	6903.0	6864.2	6808.7
10°	7161.1	7161.1	7163.8	7141.6	7155.5	7125.0	7111.1	7108.4	7061.2	7011.2	6933.6
12.5°	7402.5	7416.3	7408.0	7396.9	7391.4	7380.3	7333.1	7344.2	7291.5	7205.5	7111.1
15°	7702.1	7724.3	7710.4	7704.9	7691.0	7649.4	7630.0	7621.6	7552.3	7427.4	7302.6
17.5°	8098.9	8071.1	8060.0	8046.1	7987.9	7957.4	7924.1	7918.5	7857.5	7710.4	7516.2
20°	8445.7	8484.5	8462.3	8448.5	8390.2	8331.9	8307.0	8298.6	8245.9	8085.0	7774.2
22.5°	8859.1	8867.4	8875.7	8842.4	8814.7	8770.3	8725.9	8712.0	8692.6	8526.1	8146.0
25°	9300.2	9333.5	9305.8	9272.5	9239.2	9236.4	9278.0	9272.5	9264.2	9103.2	8639.9
27.5°	10018.8	10049.4	10057.7	10021.6	9894.0	9905.1	9999.4	10029.9	10157.6	9891.2	9275.3
30°	10423.9	10454.4	10523.8	10659.8	10862.3	11039.9	11267.4	11336.7	11458.8	10956.6	10029.9
32.5°	10673.6	10684.7	10809.6	11062.1	11669.7	12332.8	12951.5	12976.5	13054.2	12349.4	10720.8
35°	11067.6	11075.9	11175.8	11453.3	12166.3	13270.6	14227.8	14258.3	14194.5	12782.3	11042.6
37.5°	11553.2	11575.4	11639.2	11869.5	12721.2	14055.8	14757.7	14735.5	14169.5	13126.3	11611.4
40°	12260.7	12260.7	12185.8	12496.5	13306.7	14505.3	14943.6	14904.8	14755.0	14122.4	12477.1
42.5°	12884.9	12873.8	13051.4	13262.3	14039.1	15198.9	15723.3	15787.1	16034.0	15373.7	13462.0
45°	13697.9	13747.8	13847.7	14230.6	15284.9	16383.6	17060.6	17121.6	17471.2	16847.0	14613.5
47.5°	14519.1	14535.8	14849.3	15359.8	16827.5	17990.1	18545.0	18644.9	18963.9	18570.0	15853.7
50°	15101.8	15259.9	15762.1	16566.7	18417.4	19948.9	20381.7	20501.0	21064.3	20445.5	17299.2
52.5°	15717.7	15873.1	16486.3	17712.6	20243.0	21952.1	22484.8	22565.3	23150.7	22343.3	18778.0
55°	16244.9	16389.2	17085.6	18728.1	21696.9	23996.9	24962.5	24868.1	25148.4	23805.5	19918.4
57.5°	16330.9	16447.4	17324.2	19377.3	22790.0	25750.4	27134.9	27190.4	26865.8	24898.7	20858.9
60°	15665.0	15903.6	16910.8	19308.0	23281.1	26971.2	28755.3	28794.1	27873.0	25459.1	21233.5
62.5°	14485.8	14460.9	15678.9	18192.6	22593.0	27248.7	29709.7	29668.1	28266.9	25190.0	20870.0
64°	12857.2	13156.8	14294.4	16822.0	21483.2	26821.4	29809.6	29787.4	28078.3	24629.5	20251.3
65°	11863.9	11847.3	12970.9	15701.1	20379.0	26177.7	29632.0	29601.5	27684.3	24127.3	19771.3
67.5°	8565.0	8603.8	9713.6	12116.4	16566.7	23661.2	28475.0	28361.3	26130.6	22462.6	17945.7
70°	5188.4	5210.6	6081.8	8037.8	11891.7	19127.6	25667.2	25672.8	23752.8	19976.6	15273.8
72.5°	2732.9	2791.2	3140.8	4564.1	7222.1	13420.4	20822.9	21316.7	20392.8	17049.5	12066.4
75°	1520.4	1528.8	1775.7	2250.1	3684.6	7510.7	15651.1	15792.6	16145.0	13722.8	8922.9
77.5°	1159.8	1176.4	1254.1	1453.9	2006.0	3482.0	9472.3	10182.5	11378.4	9674.8	5091.3
80°	940.6	957.2	1023.8	1143.1	1334.6	1650.8	4400.4	4783.3	6090.1	4295.0	1986.6
82.5°	732.5	721.4	807.4	885.1	971.1	976.6	1806.2	1997.7	2480.4	1847.8	860.1
85°	543.8	543.8	613.2	596.5	627.0	571.6	796.3	879.5	993.3	785.2	399.5
87.5°	216.4	238.6	402.3	360.7	280.2	224.7	294.1	310.7	344.0	308.0	166.5
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: P459318

CATALOG NUMBER: GALN-SA7D-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3	6678.3
2.5°	6689.4	6697.7	6678.3	6664.4	6658.9	6650.6	6642.2	6645.0	6656.1	6667.2	6664.4
5°	6722.7	6725.5	6692.2	6675.5	6664.4	6653.3	6653.3	6661.7	6683.9	6700.5	6700.5
7.5°	6805.9	6805.9	6758.8	6728.2	6711.6	6692.2	6686.6	6689.4	6706.0	6728.2	6731.0
10°	6936.3	6925.2	6864.2	6817.0	6786.5	6739.3	6697.7	6675.5	6683.9	6697.7	6697.7
12.5°	7094.5	7064.0	6986.3	6922.5	6847.5	6758.8	6672.8	6628.4	6625.6	6639.5	6633.9
15°	7263.7	7230.4	7122.2	7005.7	6875.3	6744.9	6642.2	6578.4	6528.5	6514.6	6545.1
17.5°	7460.7	7391.4	7241.5	7080.6	6886.4	6717.1	6556.2	6425.8	6337.0	6312.1	6320.4
20°	7699.3	7607.8	7405.2	7152.7	6878.1	6617.3	6367.6	6192.8	6048.5	6004.1	6009.6
22.5°	8029.5	7871.4	7574.5	7188.8	6808.7	6428.6	6081.8	5854.3	5679.5	5610.1	5651.7
25°	8404.1	8232.0	7735.4	7180.5	6628.4	6126.2	5743.3	5446.4	5288.3	5185.6	5207.8
27.5°	8920.1	8614.9	7907.4	7105.6	6370.3	5757.2	5313.2	5033.0	4888.7	4836.0	4861.0
30°	9580.5	9111.6	8093.3	6903.0	5962.5	5291.0	4880.4	4697.3	4611.3	4544.7	4566.9
32.5°	10057.7	9461.2	8134.9	6561.8	5521.3	4866.5	4586.3	4450.4	4356.0	4292.2	4306.1
35°	10399.0	9758.0	8115.5	6142.8	5060.7	4516.9	4353.2	4242.3	4089.7	3950.9	3926.0
37.5°	10856.8	10129.8	7974.0	5685.0	4605.7	4281.1	4164.6	3959.3	3740.1	3554.2	3545.9
40°	11558.7	10565.4	7671.6	5146.8	4217.3	4106.3	3964.8	3698.5	3462.6	3312.8	3301.7
42.5°	12282.9	10967.7	7261.0	4580.8	3898.2	3923.2	3751.2	3487.6	3343.3	3246.2	3235.1
45°	13167.9	11403.3	6817.0	4089.7	3662.4	3751.2	3565.3	3412.7	3326.7	3262.9	3246.2
47.5°	14125.2	11850.0	6317.6	3648.5	3462.6	3593.0	3487.6	3418.2	3371.1	3326.7	3307.2
50°	15157.3	12349.4	5848.7	3293.4	3282.3	3429.3	3479.3	3454.3	3426.5	3412.7	3396.0
52.5°	16289.3	12860.0	5454.7	3043.7	3124.1	3312.8	3482.0	3501.5	3501.5	3493.1	3482.0
55°	17055.1	13215.1	5055.2	2841.1	2963.2	3218.5	3476.5	3551.4	3579.1	3568.1	3557.0
57.5°	17621.1	13409.3	4553.0	2666.3	2827.2	3126.9	3446.0	3557.0	3584.7	3598.6	3593.0
60°	17737.6	13229.0	3895.4	2483.2	2680.2	2993.7	3335.0	3473.7	3509.8	3595.8	3604.1
62.5°	17213.2	12674.1	3240.7	2302.9	2499.9	2791.2	3185.2	3379.4	3451.5	3584.7	3598.6
64°	16569.5	12052.6	2877.2	2189.1	2383.3	2677.4	3110.3	3354.4	3448.7	3626.3	3637.4
65°	16097.8	11600.3	2649.7	2117.0	2308.4	2602.5	3068.6	3362.7	3473.7	3690.1	3706.8
67.5°	14361.0	10043.8	2191.9	1947.7	2130.8	2474.9	3077.0	3432.1	3468.2	3715.1	3712.3
70°	11883.3	7996.2	1836.7	1792.3	1958.8	2372.2	3043.7	3321.1	3323.9	3487.6	3448.7
72.5°	8897.9	5909.8	1592.6	1631.4	1767.4	2128.1	2874.4	3171.3	3124.1	3146.3	3107.5
75°	6112.3	3909.3	1370.6	1459.4	1567.6	1881.1	2635.8	2880.0	2805.1	2777.3	2749.6
77.5°	3262.9	2161.4	1140.3	1290.2	1362.3	1625.9	2300.1	2535.9	2458.2	2350.0	2314.0
80°	1320.7	1018.3	918.4	1068.2	1109.8	1309.6	1914.4	2061.5	2003.2	1814.5	1753.5
82.5°	663.1	610.4	721.4	840.7	843.5	935.0	1423.3	1562.1	1431.7	1201.4	1148.7
85°	346.8	357.9	496.6	591.0	521.6	505.0	854.6	946.1	868.4	754.7	679.8
87.5°	124.9	144.3	260.8	258.0	183.1	97.1	188.7	91.6	49.9	30.5	38.8
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)