

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: P459320

Luminaire Tested: **GALN-SA7D-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51365 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

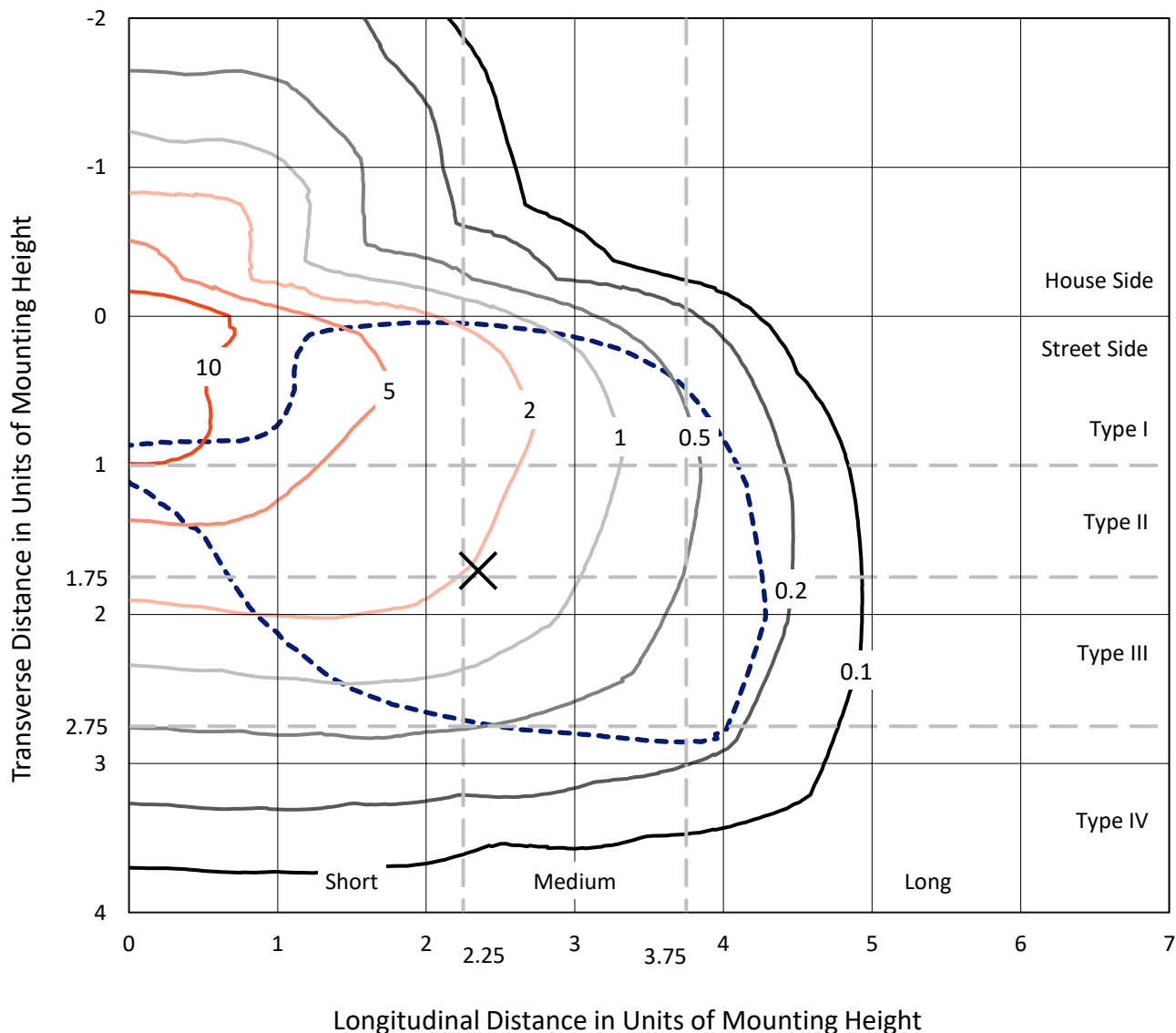
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

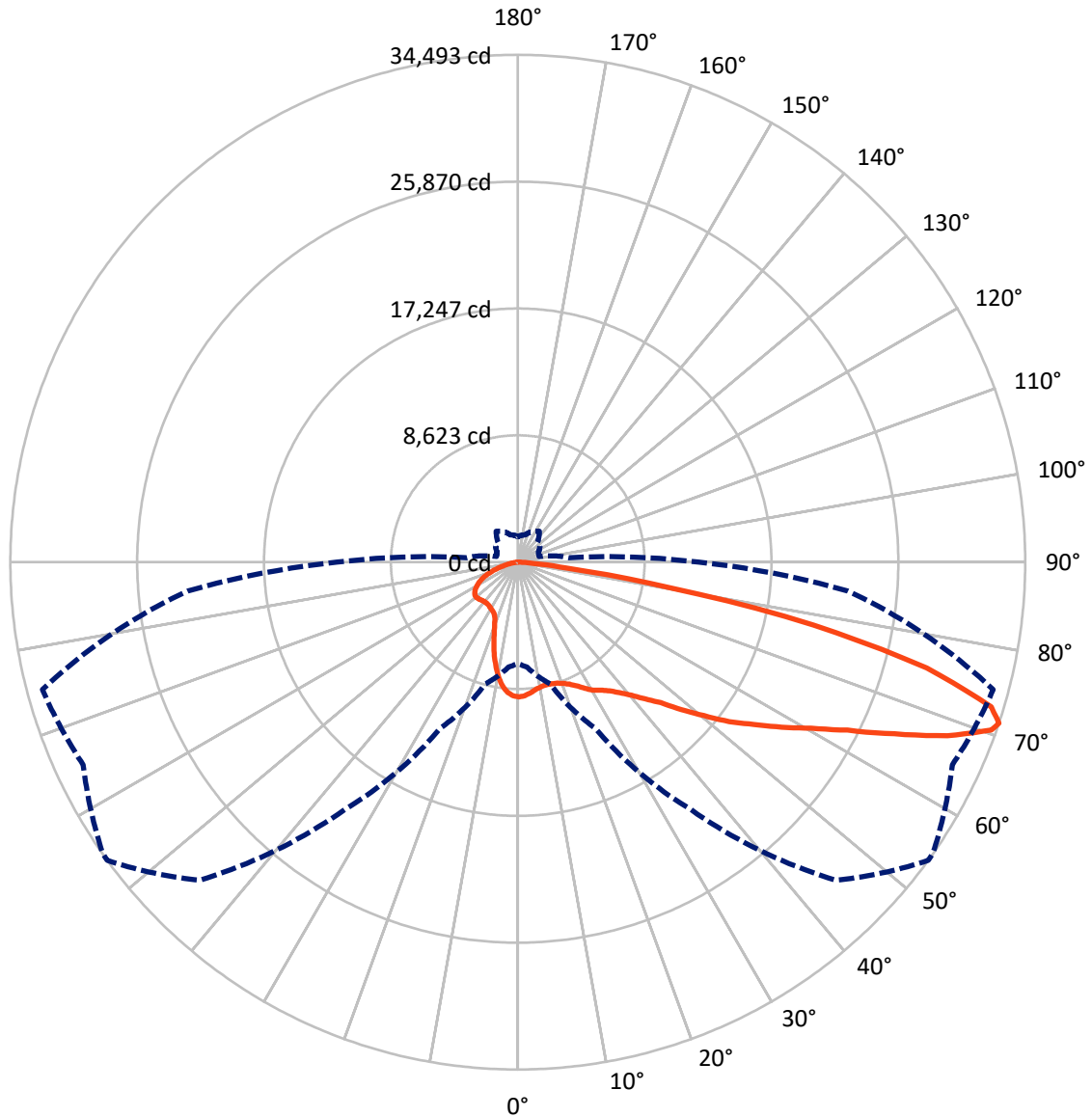
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9273.6	0.0	9273.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42091.4	0.0	42091.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	51365.0	0.0	51365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.7	1.6
10°-20°	2156.4	4.2
20°-30°	3590.5	7.0
30°-40°	5309.3	10.3
40°-50°	7478.3	14.6
50°-60°	10013.7	19.5
60°-70°	12621.5	24.6
70°-80°	8620.5	16.8
80°-90°	758.1	1.5
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°	51365.0	100.0
0°-180°	51365.0	100.0

Coefficient of Utilization



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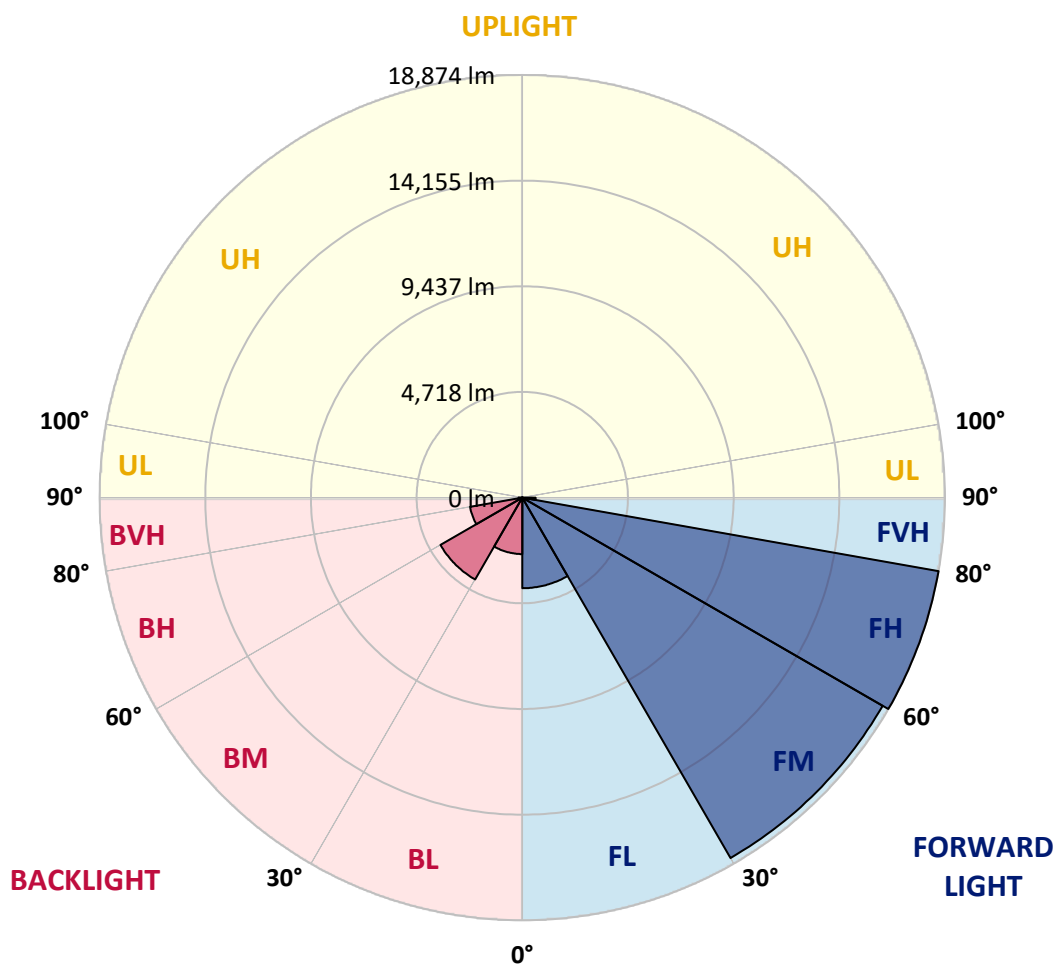
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4043.3	7.9			
FM	(30°-60°)	18582.0	36.2			
FH	(60°-80°)	18873.5	36.7			G5
FVH	(80°-90°)	592.6	1.2			G4/750
BL	(0°-30°)	2520.4	4.9	B4/5000		
BM	(30°-60°)	4219.2	8.2	B3/5000		
BH	(60°-80°)	2368.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	165.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3
2.5°	8853.5	8895.1	8906.2	8934.0	8992.3	9039.4	9086.6	9081.0	9147.6	9175.4	9200.3
5°	8459.5	8470.6	8512.3	8567.8	8670.4	8800.8	8928.4	8931.2	9094.9	9225.3	9289.1
7.5°	8171.0	8207.1	8234.8	8293.1	8401.3	8542.8	8745.3	8762.0	9053.3	9311.3	9447.3
10°	7982.3	8023.9	8054.5	8126.6	8234.8	8393.0	8612.1	8642.7	9022.8	9447.3	9685.9
12.5°	7810.3	7851.9	7879.7	7974.0	8115.5	8309.7	8556.7	8592.7	9033.9	9605.4	9946.7
15°	7915.7	7949.0	7937.9	7965.7	8060.0	8282.0	8578.9	8614.9	9075.5	9758.0	10204.7
17.5°	8384.6	8412.4	8320.8	8215.4	8171.0	8334.7	8648.2	8687.1	9158.7	9916.2	10468.3
20°	9075.5	9150.4	8950.6	8714.8	8501.2	8523.4	8792.5	8834.1	9275.3	10074.3	10737.4
22.5°	9974.4	10029.9	9785.8	9397.3	9003.4	8800.8	9008.9	9033.9	9450.1	10279.6	11031.5
25°	11031.5	11064.8	10726.3	10226.9	9658.1	9275.3	9305.8	9350.2	9738.6	10512.7	11292.3
27.5°	12058.1	12163.5	11772.3	11161.9	10412.8	9774.7	9713.6	9741.4	10052.1	10643.1	11472.7
30°	13276.1	13267.8	12854.4	12146.9	11186.9	10318.5	10099.3	10093.7	10221.4	10706.9	11603.1
32.5°	14247.2	14361.0	13955.9	13184.6	12072.0	10881.7	10365.6	10354.6	10351.8	10817.9	11797.3
35°	15351.5	15368.1	14996.3	14219.5	13029.2	11589.2	10737.4	10681.9	10618.1	11056.5	12060.9
37.5°	16339.2	16416.9	16075.6	15204.4	13969.8	12324.5	11247.9	11211.9	11017.7	11469.9	12482.6
40°	17110.5	17168.8	16963.5	16133.9	14896.5	13118.0	11897.2	11830.6	11594.8	12146.9	13045.8
42.5°	17363.0	17482.3	17562.8	17154.9	15961.9	14058.5	12696.3	12613.0	12432.7	13173.5	13695.1
45°	17382.4	17571.1	17995.6	18015.0	17032.8	15185.0	13628.5	13570.2	13556.4	14488.6	14607.9
47.5°	17235.4	17426.8	18139.9	18525.5	17987.3	16322.6	14974.1	14882.6	14890.9	16114.5	15631.7
50°	16880.2	17107.8	17973.4	18852.9	18733.6	17504.5	16394.7	16364.2	16536.2	17970.6	16694.4
52.5°	16211.6	16486.3	17801.4	19058.3	19288.5	18522.8	18009.5	17923.5	18359.1	19984.9	17856.9
55°	14361.0	14774.4	17171.6	19172.0	19815.7	19496.6	19463.3	19618.7	20195.8	22182.4	19135.9
57.5°	13395.4	13706.2	15803.7	19191.4	20481.6	20628.6	21161.3	21200.2	22210.1	24515.8	20581.5
60°	12868.3	13143.0	15054.6	19063.8	21411.1	22029.8	22898.2	23036.9	24177.3	27043.4	22079.7
62.5°	12407.7	12643.5	14605.1	18622.7	22459.8	24107.9	25148.4	25214.9	26410.8	29834.5	23558.5
65°	11322.9	11592.0	13700.6	18181.5	23364.3	26704.9	28133.7	28056.1	28788.5	32242.8	24485.2
67.5°	9860.7	10202.0	12010.9	16658.3	23811.0	29543.2	31496.5	31399.4	31135.8	33821.5	24751.6
70°	7993.4	8176.5	9849.6	14025.3	22027.0	31033.1	34151.7	34049.0	32589.6	34029.6	23492.0
71°	6878.1	7163.8	8576.1	12457.6	20542.6	30578.1	34493.0	34465.2	32592.4	33455.3	22543.1
72.5°	5368.7	5543.5	6792.1	9652.6	17460.1	27992.2	33649.5	33754.9	31884.9	31859.9	20587.0
75°	3396.0	3473.7	4261.7	5682.2	9580.5	19824.0	28724.7	29010.5	28311.3	26077.8	15309.9
77.5°	1972.7	2072.6	2552.6	3348.9	4139.6	10759.6	20553.7	20864.5	19671.4	14358.2	6267.7
80°	1148.7	1259.6	1681.4	1944.9	1900.6	3992.6	10465.5	10995.5	8517.8	3626.3	1759.1
82.5°	638.1	713.1	1182.0	1184.7	1012.7	1304.0	3293.4	3446.0	2430.5	1462.2	718.6
85°	463.3	524.4	763.0	690.9	485.5	560.5	1145.9	1201.4	982.2	615.9	233.1
87.5°	163.7	233.1	419.0	332.9	133.2	116.5	330.2	269.1	249.7	172.0	52.7
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°	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3	9164.3
2.5°	9214.2	9219.8	9192.0	9142.1	9092.1	9028.3	8956.2	8900.7	8875.7	8873.0	8870.2
5°	9314.1	9328.0	9222.5	9067.2	8895.1	8684.3	8503.9	8298.6	8245.9	8162.7	8187.6
7.5°	9475.0	9466.7	9258.6	8928.4	8526.1	8079.4	7702.1	7482.9	7255.4	7191.6	7194.4
10°	9705.3	9652.6	9258.6	8645.4	7974.0	7310.9	6783.7	6450.8	6270.4	6120.6	6065.1
12.5°	9949.5	9816.3	9169.8	8248.7	7263.7	6450.8	5884.8	5435.3	5318.8	5196.7	5199.5
15°	10182.5	9960.6	8995.0	7691.0	6498.0	5532.4	4983.1	4713.9	4677.9	4691.7	4689.0
17.5°	10393.4	10063.2	8728.7	7069.5	5604.6	4744.4	4453.1	4472.5	4569.7	4639.0	4647.3
20°	10607.0	10124.3	8331.9	6237.1	4761.1	4267.2	4278.3	4430.9	4578.0	4672.3	4686.2
22.5°	10809.6	10152.0	7865.8	5432.5	4150.7	4064.7	4228.4	4392.1	4536.4	4627.9	4641.8
25°	10942.8	10088.2	7205.5	4591.8	3851.0	3992.6	4164.6	4303.3	4425.4	4519.7	4541.9
27.5°	10978.8	9882.9	6387.0	3912.1	3712.3	3923.2	4081.3	4184.0	4278.3	4367.1	4383.8
30°	10959.4	9580.5	5488.0	3512.6	3631.9	3842.7	3964.8	4039.7	4153.5	4222.8	4236.7
32.5°	10928.9	9228.1	4550.2	3298.9	3565.3	3767.8	3840.0	3906.5	3903.8	3876.0	3895.4
35°	10940.0	8806.4	3790.0	3171.3	3507.0	3712.3	3773.4	3690.1	3451.5	3440.4	3429.3
37.5°	10998.2	8390.2	3237.9	3082.5	3476.5	3704.0	3737.3	3354.4	3143.5	3046.4	3021.5
40°	11148.1	7904.6	2874.4	3015.9	3473.7	3767.8	3573.6	3185.2	2780.1	2591.4	2577.5
42.5°	11347.8	7427.4	2652.5	2974.3	3507.0	3864.9	3507.0	2946.6	2505.4	2394.4	2377.8
45°	11644.7	6880.8	2530.4	2954.9	3556.9	3901.0	3484.8	2771.8	2394.4	2305.6	2305.6
47.5°	11980.4	6359.2	2463.8	2941.0	3620.8	3876.0	3287.8	2716.3	2341.7	2352.8	2405.5
50°	12313.4	5907.0	2413.8	2910.5	3676.3	3862.1	3207.4	2713.5	2355.6	2497.1	2591.4
52.5°	12699.0	5587.9	2352.8	2860.5	3676.3	3773.4	3182.4	2769.0	2394.4	2436.0	2477.7
55°	13165.2	5488.0	2275.1	2752.3	3609.7	3551.4	3168.5	2849.4	2422.2	2325.1	2341.7
57.5°	13781.1	5648.9	2200.2	2616.4	3457.1	3321.1	3163.0	2871.6	2358.4	2277.9	2261.2
60°	14496.9	5968.0	2178.0	2477.7	3249.0	3124.1	3129.7	2807.8	2269.6	2186.3	2200.2
62.5°	14999.1	6159.5	2164.1	2372.2	3021.5	2907.7	3049.2	2730.1	2230.7	2158.6	2172.5
65°	14999.1	5926.4	2036.5	2211.3	2727.4	2646.9	2952.1	2633.0	2180.8	2097.5	2083.7
67.5°	14430.3	5246.6	1842.3	1969.9	2402.7	2350.0	2816.1	2516.5	2105.9	2042.1	2008.8
70°	12948.7	3978.7	1598.1	1686.9	1992.1	2039.3	2641.4	2358.4	1981.0	1903.3	1853.4
71°	12296.7	3465.4	1495.5	1542.6	1834.0	1903.3	2558.1	2291.8	1925.5	1814.5	1725.8
72.5°	11039.9	2918.8	1340.1	1359.5	1567.6	1692.5	2383.3	2164.1	1820.1	1661.9	1562.1
75°	8387.4	2130.8	1079.3	1068.2	1159.8	1342.9	2017.1	1928.3	1595.4	1381.7	1323.5
77.5°	3623.5	1159.8	807.4	815.7	788.0	1018.3	1587.0	1656.4	1367.8	1123.7	1071.0
80°	1098.7	668.7	552.1	563.2	527.2	682.5	1118.1	1298.5	1098.7	874.0	801.8
82.5°	563.2	399.5	377.3	371.8	335.7	385.7	677.0	887.8	785.2	546.6	482.8
85°	244.2	213.6	185.9	180.3	158.1	138.7	241.4	443.9	416.2	305.2	291.3
87.5°	61.0	55.5	36.1	33.3	19.4	2.8	0.0	0.0	0.0	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)