

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: P457168

Luminaire Tested: **GALN-SA8C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47749 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

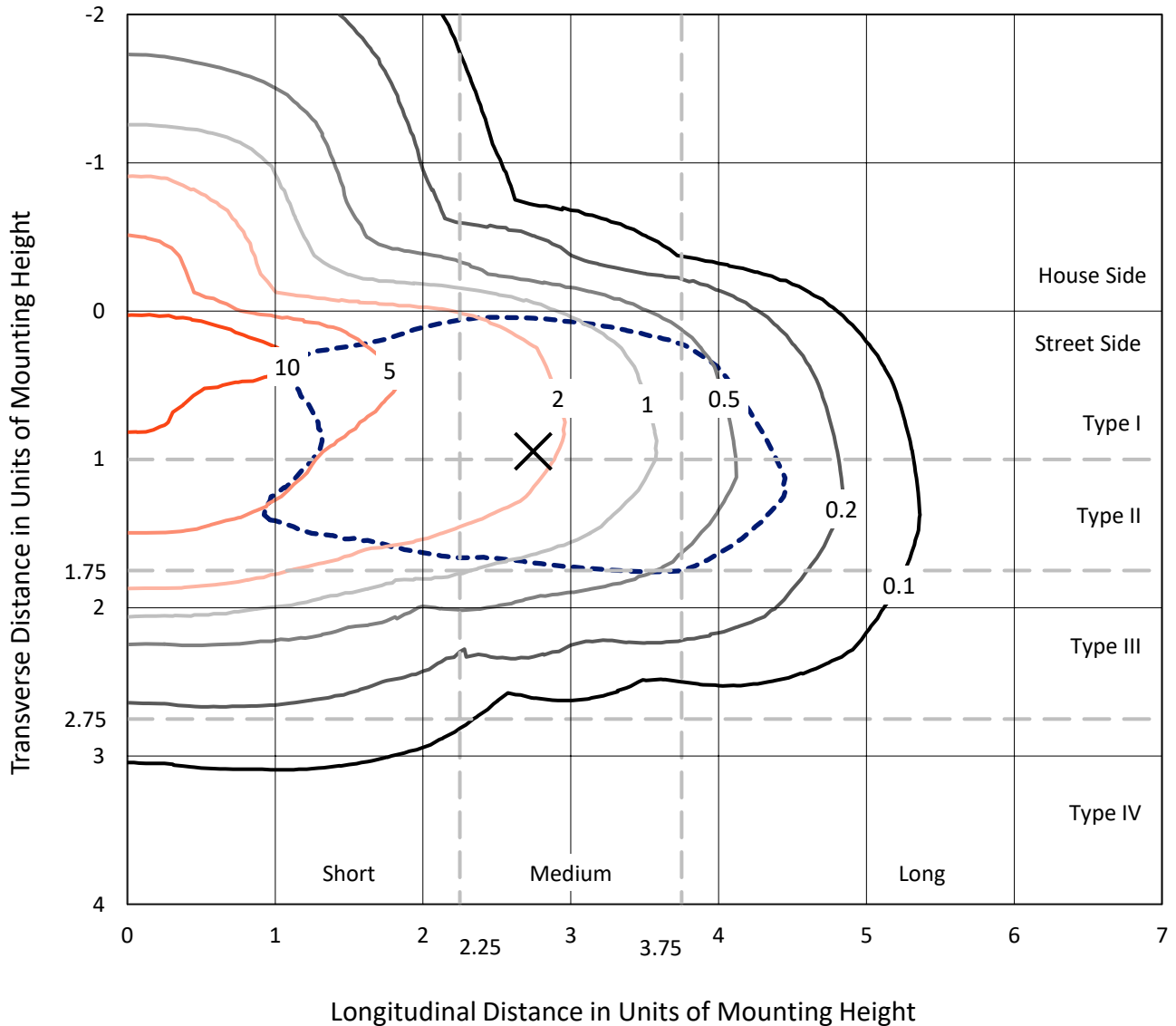
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

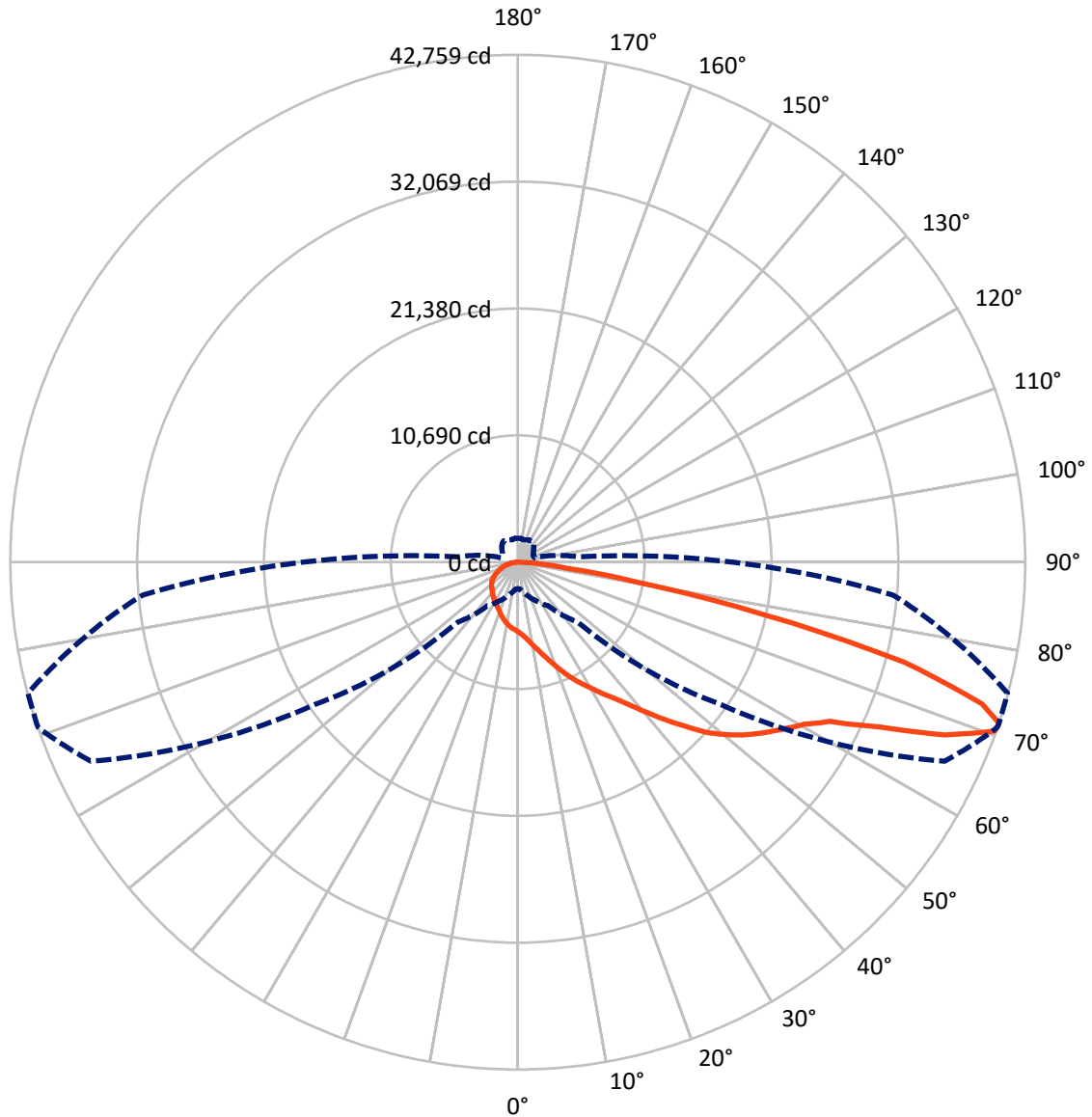
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8587.5	0.0	8587.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	39161.5	0.0	39161.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	47749.0	0.0	47749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.4	1.2
10°-20°	1911.7	4.0
20°-30°	3340.8	7.0
30°-40°	4969.1	10.4
40°-50°	7321.3	15.3
50°-60°	10249.9	21.5
60°-70°	11464.2	24.0
70°-80°	7002.8	14.7
80°-90°	900.8	1.9
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°	47749.0	100.0
0°-180°	47749.0	100.0

Coefficient of Utilization



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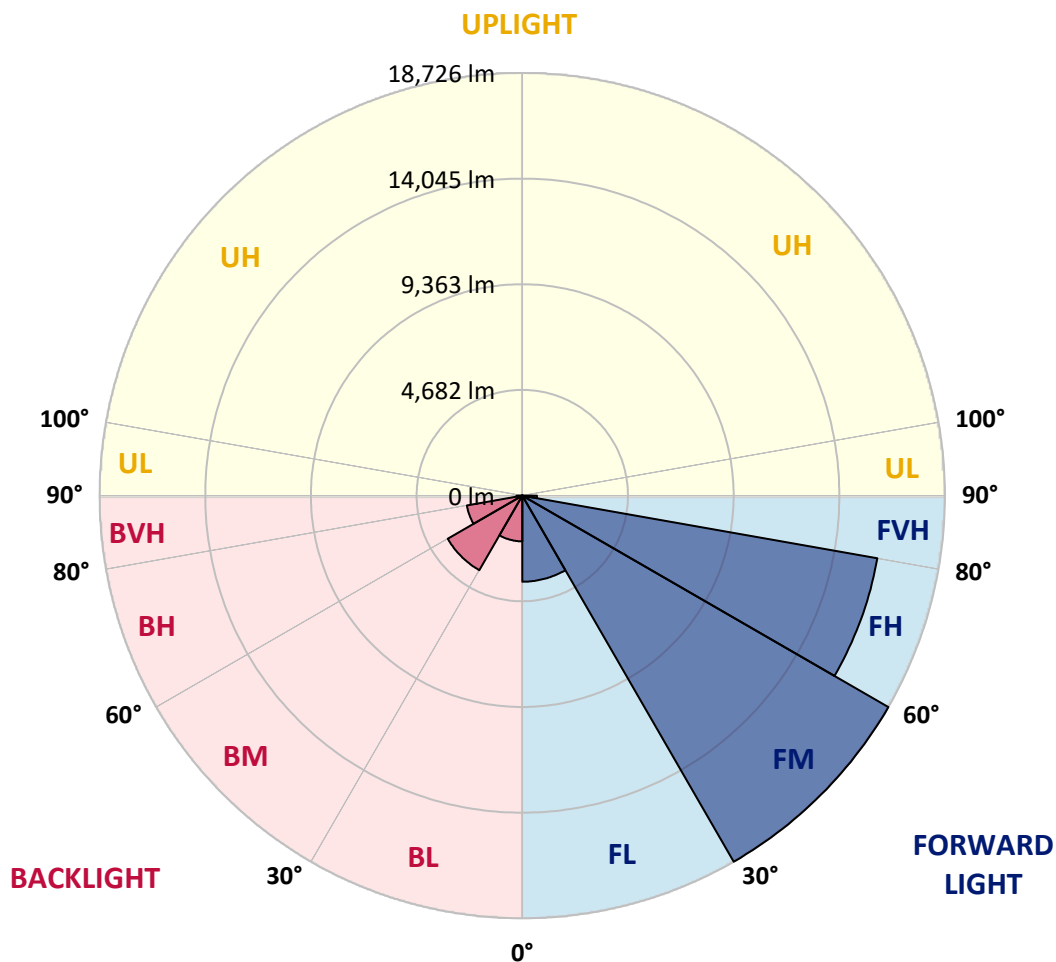
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3815.2	8.0			
FM	(30°-60°)	18726.2	39.2			
FH	(60°-80°)	15971.9	33.4			G5
FVH	(80°-90°)	648.2	1.4			G4/750
BL	(0°-30°)	2025.8	4.2	B3/2500		
BM	(30°-60°)	3814.1	8.0	B3/5000		
BH	(60°-80°)	2495.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	252.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2
2.5°	6505.8	6474.4	6477.0	6432.4	6374.6	6311.6	6222.4	6143.7	6080.7	6044.0	5936.4
5°	7209.2	7177.7	7138.3	7041.2	6999.2	6844.4	6647.6	6469.1	6332.6	6256.5	6041.3
7.5°	7778.7	7770.8	7760.3	7705.2	7597.6	7382.4	7214.4	6904.8	6702.7	6558.3	6190.9
10°	8130.3	8143.5	8151.3	8161.8	8117.2	8004.4	7773.4	7382.4	7125.2	6941.5	6385.1
12.5°	8308.8	8321.9	8366.5	8463.6	8524.0	8510.9	8321.9	7938.8	7584.5	7343.0	6592.5
15°	8419.0	8440.0	8518.7	8647.3	8849.4	8978.0	8886.2	8531.9	8143.5	7857.4	6839.1
17.5°	8539.7	8563.4	8650.0	8833.7	9098.7	9376.9	9476.6	9172.2	8749.7	8408.5	7114.7
20°	8608.0	8639.5	8762.8	9004.3	9313.9	9718.1	10048.8	9888.7	9426.8	9048.9	7432.3
22.5°	8718.2	8744.4	8849.4	9106.6	9476.6	9983.2	10620.9	10586.8	10180.0	9691.8	7781.3
25°	9017.4	9059.4	9111.9	9266.7	9623.6	10253.5	11095.9	11332.1	10909.6	10363.7	8101.5
27.5°	9581.6	9615.7	9613.1	9634.1	9836.2	10487.0	11507.9	12069.5	11633.9	11043.4	8411.1
30°	10224.6	10237.7	10248.2	10201.0	10245.6	10725.9	11885.8	12799.1	12363.5	11741.5	8681.5
32.5°	11006.7	11032.9	10943.7	10823.0	10786.2	11080.1	12198.1	13528.7	13226.9	12450.1	8949.1
35°	11930.4	11998.7	11817.6	11605.0	11455.4	11589.3	12618.0	14274.0	14111.3	13355.5	9303.4
37.5°	12985.4	13069.4	12901.5	12484.2	12271.6	12308.4	13166.5	15195.2	15229.3	14386.9	9830.9
40°	13848.9	13959.1	13964.3	13373.9	13051.1	13093.0	13862.0	16187.2	16578.2	15662.3	10452.9
42.5°	14418.4	14526.0	14638.8	14292.4	13953.8	14192.7	14672.9	17263.2	18095.1	17210.7	11321.6
45°	15043.0	15140.1	15203.1	15045.6	14856.6	15476.0	15651.8	18407.4	19711.7	18940.2	12271.6
47.5°	15767.3	15874.9	15935.3	15785.7	15714.8	16601.8	16706.8	19475.5	21438.6	20619.8	13321.4
50°	16733.1	16814.4	16782.9	16688.5	16672.7	17465.3	17719.8	20475.4	22863.6	22428.0	14410.5
52.5°	17935.0	18032.1	18066.3	17932.4	17872.1	18082.0	18536.0	21386.1	24160.1	23981.6	15573.1
55°	18662.0	18816.8	19336.5	19546.4	19690.7	18879.8	19415.2	22391.2	25322.7	25619.2	16822.3
57.5°	17730.3	17929.8	19092.4	20142.1	21498.9	20874.3	20661.8	23441.0	26485.3	27207.0	18318.2
60°	15457.6	15502.2	17000.8	18934.9	21664.3	23438.4	23262.5	25110.1	27745.0	28807.9	20289.1
62.5°	10723.2	10817.7	12589.2	15675.4	19622.5	24362.2	27687.2	27991.7	29550.6	31203.9	23178.6
65°	5529.6	5406.2	7020.2	9851.9	14793.6	22168.2	31272.2	33290.3	33466.1	34951.5	27246.3
67.5°	3403.8	3458.9	4214.8	5752.6	8747.1	16111.1	30896.9	39764.7	38838.2	39552.1	31022.8
70°	2556.1	2624.4	3144.0	3936.6	5332.7	9211.6	24847.7	41334.0	42627.9	42444.2	32172.3
71°	2222.9	2293.7	2834.3	3582.3	4479.8	7109.5	20934.7	39691.2	42759.1	42727.6	31739.3
72.5°	1894.8	1939.4	2361.9	3033.8	3776.5	4983.7	15727.9	35597.1	40935.1	41982.3	30193.5
75°	1488.0	1522.1	1711.1	2314.7	2973.4	3060.0	8440.0	26687.4	33621.0	35615.5	25136.3
77.5°	1212.5	1236.1	1333.2	1719.0	2293.7	2167.7	4427.3	17370.8	21063.3	23071.0	14806.8
80°	963.1	989.4	1047.1	1165.2	1719.0	1545.8	2112.6	8802.2	10174.7	10153.7	5910.1
82.5°	747.9	755.8	824.1	855.5	1175.7	1097.0	1144.2	3726.6	4128.2	4264.6	2133.6
85°	472.4	496.0	729.6	656.1	703.3	643.0	564.2	1480.2	1823.9	1797.7	852.9
87.5°	144.3	152.2	246.7	278.2	312.3	280.8	207.3	435.6	532.7	577.4	212.6
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°	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2	5860.2
2.5°	5894.4	5865.5	5763.1	5679.2	5600.4	5513.8	5440.3	5419.4	5401.0	5393.1	5390.5
5°	5949.5	5862.9	5660.8	5495.5	5364.2	5243.5	5167.4	5133.3	5099.2	5099.2	5109.7
7.5°	6028.2	5870.7	5558.4	5311.8	5146.4	5033.6	4978.5	4973.2	4981.1	4989.0	4991.6
10°	6114.8	5865.5	5408.9	5101.8	4954.8	4902.3	4905.0	4949.6	4991.6	5023.1	5028.3
12.5°	6198.8	5834.0	5233.0	4905.0	4810.5	4821.0	4894.5	4994.2	5075.6	5120.2	5122.8
15°	6293.3	5784.1	5020.4	4718.6	4687.1	4768.5	4905.0	5057.2	5180.5	5254.0	5261.9
17.5°	6372.0	5700.2	4797.4	4537.6	4576.9	4726.5	4915.5	5112.3	5261.9	5353.7	5369.5
20°	6461.2	5592.6	4566.4	4364.3	4477.2	4679.3	4894.5	5107.0	5261.9	5351.1	5372.1
22.5°	6532.1	5440.3	4346.0	4222.6	4388.0	4621.5	4823.6	4994.2	5120.2	5167.4	5198.9
25°	6561.0	5248.8	4138.7	4107.2	4317.1	4527.1	4663.5	4760.6	4800.0	4794.7	4807.9
27.5°	6545.2	5028.3	3960.2	4015.3	4227.9	4380.1	4448.3	4440.5	4369.6	4304.0	4335.5
30°	6479.6	4765.9	3810.6	3920.8	4112.4	4196.4	4185.9	4083.5	3949.7	3826.4	3834.2
32.5°	6361.5	4482.4	3671.5	3813.2	3949.7	3986.4	3915.6	3781.7	3590.2	3430.1	3406.4
35°	6261.8	4212.1	3548.2	3689.9	3787.0	3768.6	3700.4	3527.2	3354.0	3212.2	3188.6
37.5°	6246.0	3981.2	3430.1	3550.8	3605.9	3579.7	3495.7	3348.7	3285.7	3178.1	3165.0
40°	6330.0	3818.5	3309.3	3403.8	3430.1	3409.1	3317.2	3233.2	3291.0	3264.7	3264.7
42.5°	6558.3	3731.9	3201.7	3256.9	3277.9	3293.6	3228.0	3157.1	3228.0	3107.3	3067.9
45°	6920.5	3734.5	3104.6	3112.5	3175.5	3230.6	3186.0	3081.0	3044.3	2802.8	2755.6
47.5°	7453.2	3823.7	3025.9	2976.1	3088.9	3180.8	3117.8	2965.6	2802.8	2642.8	2613.9
50°	8075.2	3983.8	2955.1	2834.3	2973.4	3117.8	3070.5	2892.1	2724.1	2627.0	2608.6
52.5°	8765.4	4185.9	2868.5	2676.9	2831.7	3088.9	3081.0	2881.6	2650.6	2585.0	2569.3
55°	9618.4	4385.3	2760.9	2493.2	2705.7	3065.3	3052.2	2795.0	2634.9	2587.6	2582.4
57.5°	10610.4	4674.0	2606.0	2306.8	2561.4	2968.2	2939.3	2742.5	2582.4	2548.3	2545.7
60°	12208.6	5122.8	2385.6	2136.2	2414.4	2797.6	2834.3	2653.3	2498.4	2490.5	2487.9
62.5°	14310.8	5752.6	2157.2	1960.4	2243.8	2577.1	2682.1	2532.5	2409.2	2448.5	2453.8
65°	17213.3	6282.8	1921.0	1810.8	2054.9	2364.6	2537.8	2419.7	2309.5	2385.6	2385.6
67.5°	19105.5	6293.3	1705.8	1656.0	1863.3	2186.1	2385.6	2285.8	2180.9	2309.5	2314.7
70°	18711.9	5513.8	1527.4	1493.3	1677.0	1994.5	2217.6	2138.9	2018.2	2133.6	2091.6
71°	18076.8	5080.8	1456.5	1430.3	1603.5	1902.7	2138.9	2073.3	1952.5	2028.6	2005.0
72.5°	17063.7	4411.6	1341.1	1346.3	1493.3	1787.2	2028.6	1960.4	1839.7	1881.7	1873.8
75°	14423.6	3852.6	1146.9	1170.5	1283.3	1590.4	1808.2	1755.7	1632.4	1632.4	1624.5
77.5°	9017.4	2692.6	952.7	965.8	1089.1	1362.1	1553.6	1509.0	1390.9	1351.6	1341.1
80°	3364.5	1390.9	745.3	761.1	837.2	1073.4	1285.9	1244.0	1123.2	1078.6	1036.6
82.5°	1272.8	698.1	548.5	535.4	616.7	818.8	1007.8	957.9	863.4	755.8	724.3
85°	480.3	346.4	335.9	325.4	362.2	485.5	624.6	614.1	514.4	438.3	430.4
87.5°	126.0	112.8	131.2	97.1	102.4	91.9	94.5	39.4	18.4	7.9	5.2
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)