

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: P458100

Luminaire Tested: **GALN-SA9C-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458100  
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-SA9C-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52858 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

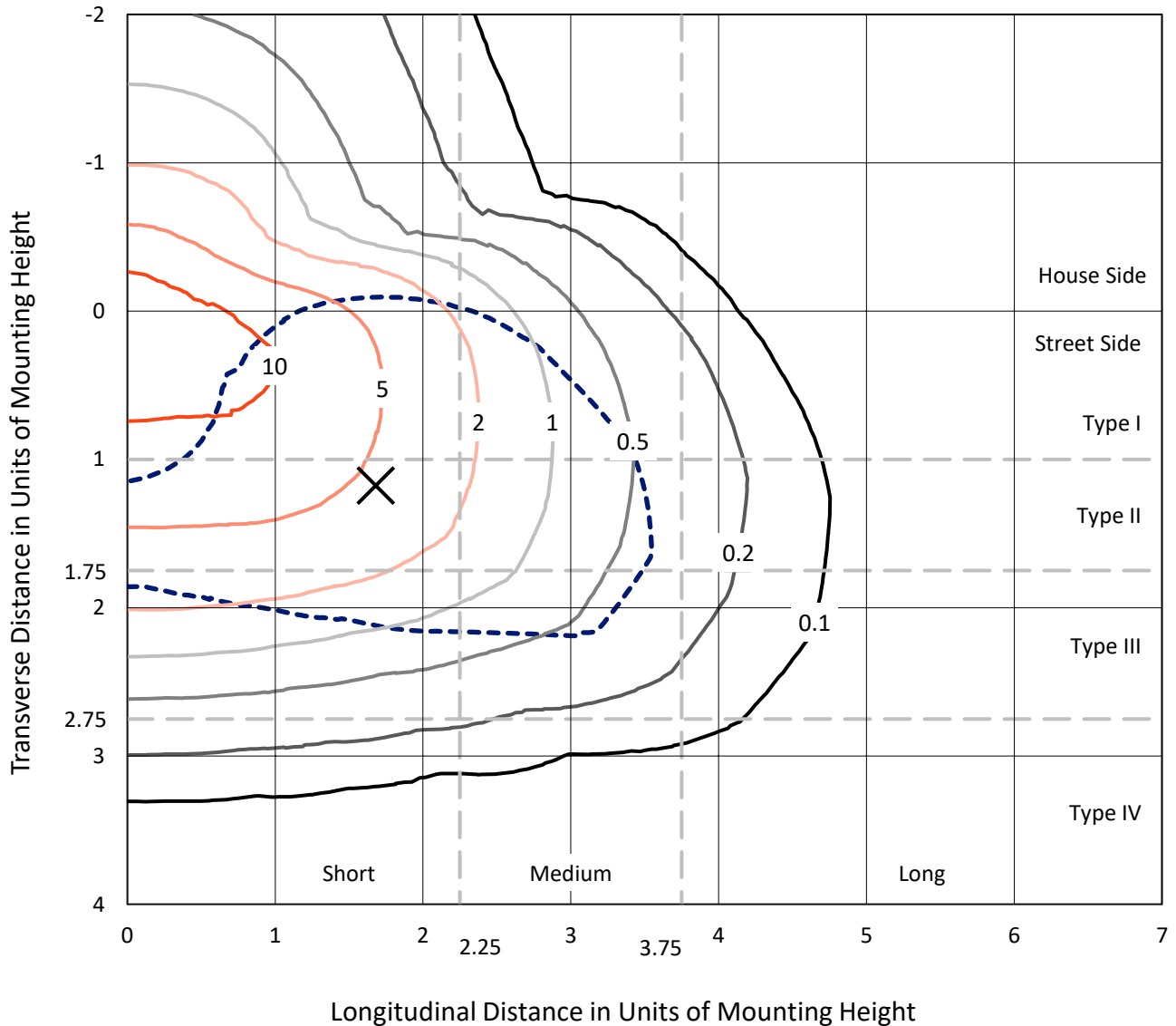
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

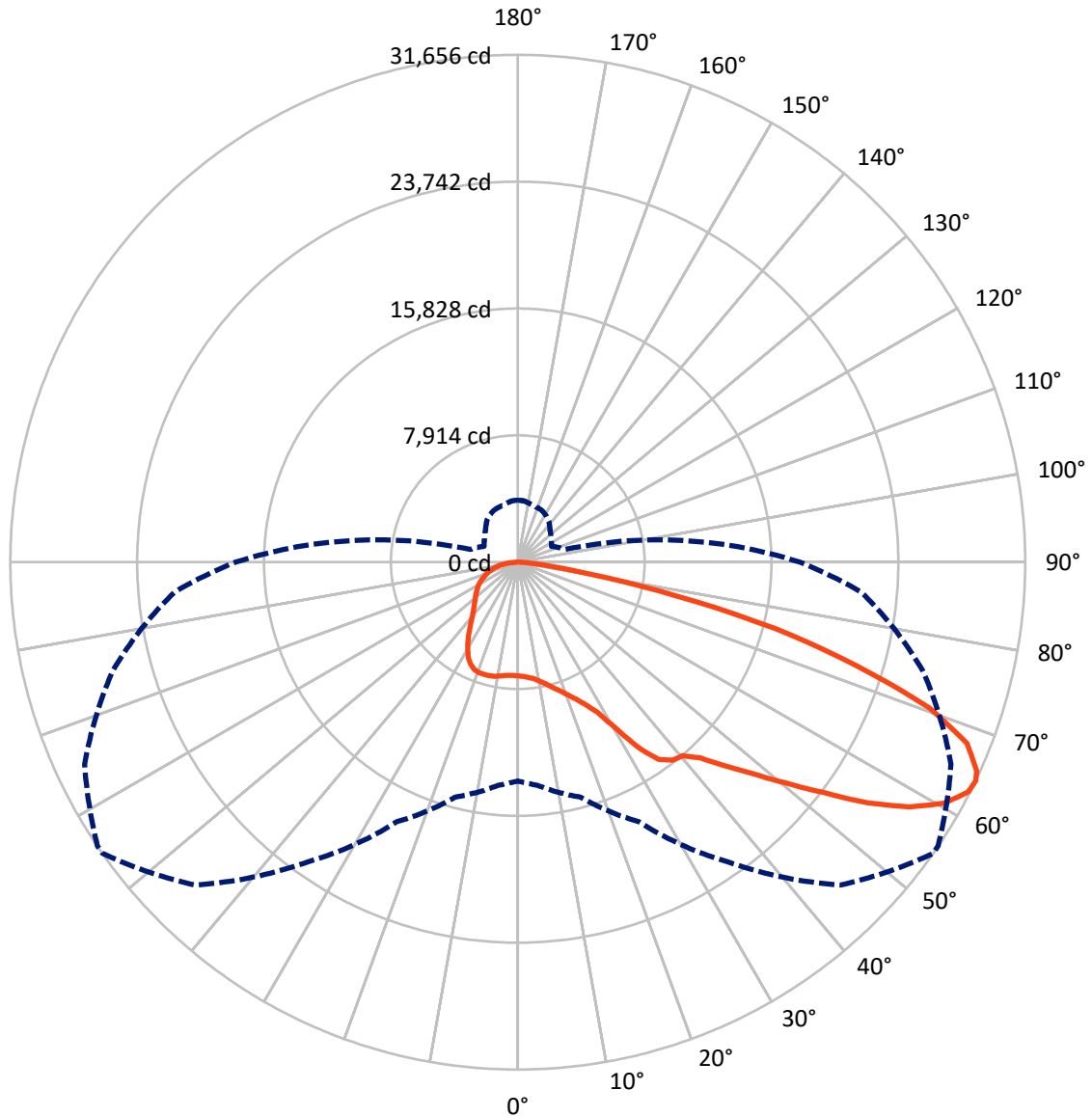
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12840.3	0.0	12840.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	40017.7	0.0	40017.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	52858.0	0.0	52858.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.9	1.3
10°-20°	2176.7	4.1
20°-30°	3875.1	7.3
30°-40°	5962.3	11.3
40°-50°	8452.0	16.0
50°-60°	12234.1	23.1
60°-70°	12661.0	24.0
70°-80°	5929.2	11.2
80°-90°	877.7	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°	52858.0	100.0
0°-180°	52858.0	100.0



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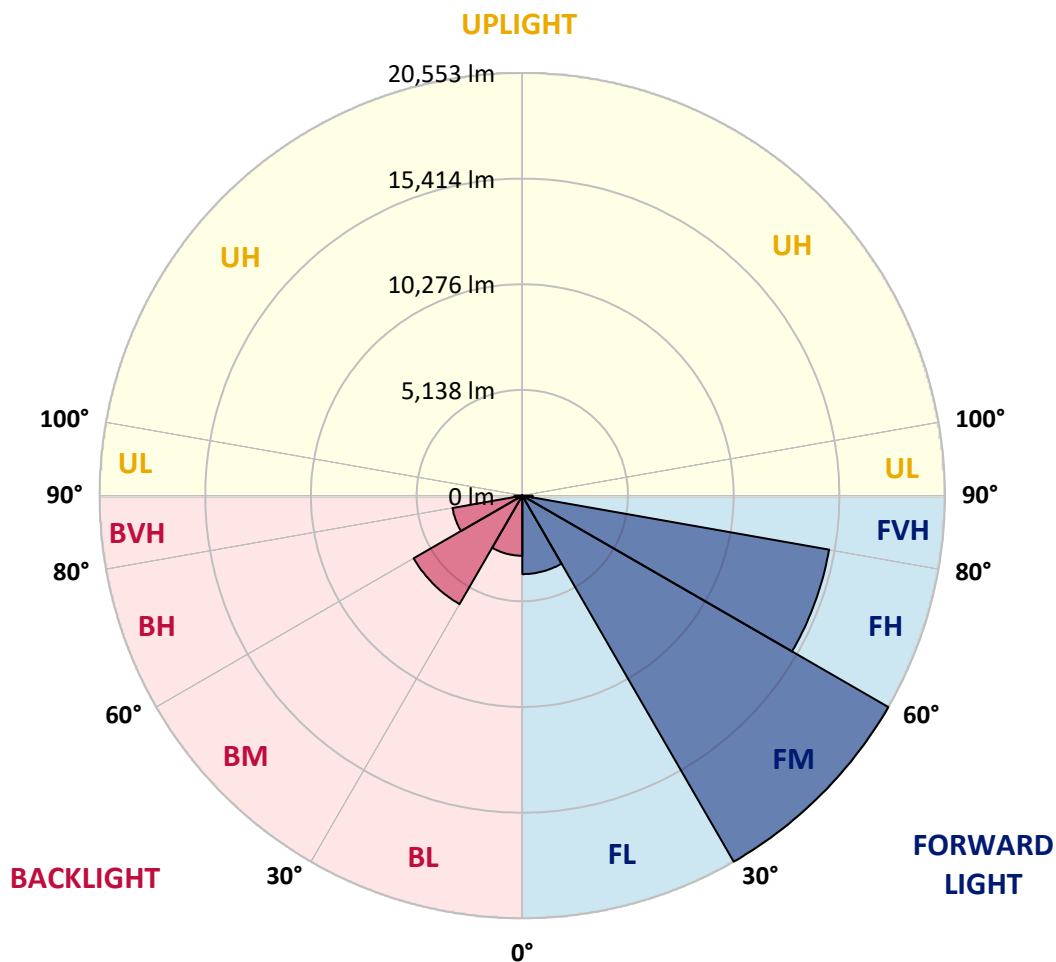
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3817.2	7.2			
FM	(30°-60°)	20552.6	38.9			
FH	(60°-80°)	15145.4	28.7			G5
FVH	(80°-90°)	502.6	1.0			G4/750
BL	(0°-30°)	2924.5	5.5	B4/5000		
BM	(30°-60°)	6095.8	11.5	B4/8500		
BH	(60°-80°)	3444.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	375.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9
2.5°	7171.5	7168.6	7177.4	7168.6	7174.4	7153.8	7145.0	7150.9	7142.0	7127.3	7100.8
5°	7259.9	7256.9	7259.9	7248.1	7254.0	7242.2	7221.6	7227.5	7212.7	7180.3	7142.0
7.5°	7410.2	7398.4	7398.4	7395.4	7383.6	7366.0	7351.2	7345.3	7330.6	7289.4	7230.4
10°	7604.6	7604.6	7607.6	7584.0	7598.7	7566.3	7551.6	7548.6	7498.5	7445.5	7363.0
12.5°	7861.0	7875.7	7866.8	7855.1	7849.2	7837.4	7787.3	7799.1	7743.1	7651.8	7551.6
15°	8179.2	8202.7	8188.0	8182.1	8167.4	8123.2	8102.6	8093.7	8020.1	7887.5	7754.9
17.5°	8600.5	8571.0	8559.2	8544.5	8482.6	8450.2	8414.9	8409.0	8344.2	8188.0	7981.8
20°	8968.8	9010.0	8986.5	8971.7	8909.9	8848.0	8821.5	8812.6	8756.7	8585.8	8255.8
22.5°	9407.8	9416.6	9425.5	9390.1	9360.7	9313.5	9266.4	9251.6	9231.0	9054.2	8650.6
25°	9876.3	9911.6	9882.2	9846.8	9811.5	9808.5	9852.7	9846.8	9838.0	9667.1	9175.0
27.5°	10639.4	10671.8	10680.6	10642.3	10506.8	10518.6	10618.8	10651.2	10786.7	10503.9	9849.8
30°	11069.6	11102.0	11175.6	11320.0	11535.1	11723.7	11965.3	12038.9	12168.6	11635.3	10651.2
32.5°	11334.7	11346.5	11479.1	11747.2	12392.5	13096.7	13753.7	13780.2	13862.7	13114.4	11384.8
35°	11753.1	11762.0	11868.0	12162.7	12919.9	14092.6	15109.1	15141.5	15073.7	13574.0	11726.6
37.5°	12268.7	12292.3	12360.1	12604.6	13509.2	14926.4	15671.8	15648.2	15047.2	13939.3	12330.6
40°	13020.1	13020.1	12940.5	13270.5	14130.9	15403.7	15869.2	15828.0	15668.9	14997.1	13249.9
42.5°	13683.0	13671.2	13859.8	14083.7	14908.7	16140.3	16697.2	16764.9	17027.2	16325.9	14295.9
45°	14546.3	14599.3	14705.4	15112.0	16231.6	17398.4	18117.3	18182.1	18553.4	17890.4	15518.6
47.5°	15418.4	15436.1	15769.1	16311.2	17869.8	19104.4	19693.6	19799.7	20138.5	19720.2	16835.6
50°	16037.2	16205.1	16738.4	17592.9	19558.1	21184.5	21644.1	21770.8	22369.0	21711.9	18370.7
52.5°	16691.3	16856.3	17507.4	18809.7	21496.8	23311.8	23877.5	23962.9	24584.6	23727.2	19941.1
55°	17251.1	17404.3	18143.8	19888.1	23040.7	25483.3	26508.6	26408.4	26706.0	25280.0	21152.1
57.5°	17342.4	17466.2	18397.2	20577.6	24201.6	27345.4	28815.6	28874.6	28529.8	26440.9	22150.9
60°	16635.3	16888.7	17958.2	20503.9	24723.1	28641.8	30536.3	30577.6	29599.4	27036.0	22548.7
62.5°	15383.1	15356.6	16650.0	19319.4	23992.4	28936.4	31549.9	31505.7	30017.8	26750.2	22162.7
64°	13653.5	13971.8	15179.8	17863.9	22813.9	28482.7	31656.0	31632.4	29817.4	26155.1	21505.7
65°	12598.7	12581.1	13774.3	16673.6	21641.2	27799.1	31467.4	31435.0	29399.0	25621.8	20995.9
67.5°	9095.5	9136.7	10315.3	12866.9	17592.9	25126.8	30238.7	30117.9	27749.1	23853.9	19057.2
70°	5509.7	5533.3	6458.5	8535.7	12628.2	20312.4	27257.0	27262.9	25224.0	21214.0	16219.8
72.5°	2902.2	2964.1	3335.3	4846.8	7669.4	14251.7	22112.6	22637.1	21655.9	18105.5	12813.8
75°	1614.6	1623.5	1885.7	2389.5	3912.8	7975.9	16620.6	16770.8	17145.0	14572.8	9475.6
77.5°	1231.6	1249.3	1331.8	1543.9	2130.2	3697.7	10059.0	10813.2	12083.1	10274.0	5406.6
80°	998.8	1016.5	1087.2	1213.9	1417.2	1753.1	4673.0	5079.6	6467.3	4561.0	2109.6
82.5°	777.8	766.1	857.4	939.9	1031.2	1037.1	1918.1	2121.4	2634.1	1962.3	913.4
85°	577.5	577.5	651.2	633.5	665.9	607.0	845.6	934.0	1054.8	833.8	424.3
87.5°	229.8	253.4	427.2	383.0	297.6	238.7	312.3	330.0	365.4	327.0	176.8
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°	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9	7091.9
2.5°	7103.7	7112.6	7091.9	7077.2	7071.3	7062.5	7053.6	7056.6	7068.4	7080.2	7077.2
5°	7139.1	7142.0	7106.7	7089.0	7077.2	7065.4	7065.4	7074.3	7097.8	7115.5	7115.5
7.5°	7227.5	7227.5	7177.4	7145.0	7127.3	7106.7	7100.8	7103.7	7121.4	7145.0	7147.9
10°	7366.0	7354.2	7289.4	7239.3	7206.9	7156.8	7112.6	7089.0	7097.8	7112.6	7112.6
12.5°	7533.9	7501.5	7419.0	7351.2	7271.7	7177.4	7086.1	7038.9	7036.0	7050.7	7044.8
15°	7713.6	7678.3	7563.4	7439.6	7301.1	7162.7	7053.6	6985.9	6932.8	6918.1	6950.5
17.5°	7922.8	7849.2	7690.1	7519.2	7312.9	7133.2	6962.3	6823.8	6729.5	6703.0	6711.9
20°	8176.2	8079.0	7863.9	7595.8	7304.1	7027.1	6762.0	6576.3	6423.1	6376.0	6381.9
22.5°	8526.8	8358.9	8043.6	7634.1	7230.4	6826.8	6458.5	6216.9	6031.2	5957.6	6001.8
25°	8924.6	8741.9	8214.5	7625.2	7038.9	6505.6	6099.0	5783.8	5615.8	5506.8	5530.4
27.5°	9472.6	9148.5	8397.2	7545.7	6764.9	6113.7	5642.3	5344.7	5191.5	5135.5	5162.1
30°	10173.9	9675.9	8594.6	7330.6	6331.8	5618.8	5182.7	4988.2	4896.9	4826.2	4849.7
32.5°	10680.6	10047.2	8638.8	6968.2	5863.3	5168.0	4870.4	4726.0	4625.8	4558.1	4572.8
35°	11043.1	10362.4	8618.2	6523.3	5374.2	4796.7	4622.9	4505.0	4343.0	4195.7	4169.1
37.5°	11529.2	10757.3	8467.9	6037.1	4891.0	4546.3	4422.5	4204.5	3971.7	3774.3	3765.5
40°	12274.6	11219.8	8146.8	5465.5	4478.5	4360.6	4210.4	3927.5	3677.1	3518.0	3506.2
42.5°	13043.6	11647.1	7710.7	4864.5	4139.7	4166.2	3983.5	3703.6	3550.4	3447.3	3435.5
45°	13983.5	12109.6	7239.3	4343.0	3889.2	3983.5	3786.1	3624.1	3532.7	3464.9	3447.3
47.5°	15000.0	12584.0	6708.9	3874.5	3677.1	3815.6	3703.6	3629.9	3579.9	3532.7	3512.1
50°	16096.1	13114.4	6211.0	3497.4	3485.6	3641.7	3694.8	3668.2	3638.8	3624.1	3606.4
52.5°	17298.2	13656.5	5792.6	3232.2	3317.6	3518.0	3697.7	3718.3	3718.3	3709.5	3697.7
55°	18111.4	14033.6	5368.3	3017.1	3146.7	3417.8	3691.8	3771.4	3800.8	3789.1	3777.3
57.5°	18712.5	14239.9	4835.0	2831.5	3002.4	3320.6	3659.4	3777.3	3806.7	3821.5	3815.6
60°	18836.2	14048.4	4136.7	2637.0	2846.2	3179.1	3541.6	3688.9	3727.2	3818.5	3827.4
62.5°	18279.4	13459.1	3441.4	2445.5	2654.7	2964.1	3382.4	3588.7	3665.3	3806.7	3821.5
64°	17595.8	12799.1	3055.4	2324.7	2530.9	2843.3	3302.9	3562.2	3662.4	3850.9	3862.7
65°	17094.9	12318.8	2813.8	2248.1	2451.4	2763.7	3258.7	3571.0	3688.9	3918.7	3936.4
67.5°	15250.5	10665.9	2327.6	2068.4	2262.8	2628.2	3267.5	3644.7	3683.0	3945.2	3942.3
70°	12619.4	8491.5	1950.5	1903.4	2080.1	2519.2	3232.2	3526.8	3529.8	3703.6	3662.4
72.5°	9449.1	6275.8	1691.2	1732.5	1876.8	2259.9	3052.5	3367.7	3317.6	3341.2	3300.0
75°	6490.9	4151.5	1455.5	1549.8	1664.7	1997.6	2799.1	3058.3	2978.8	2949.3	2919.9
77.5°	3464.9	2295.2	1211.0	1370.1	1446.7	1726.6	2442.6	2693.0	2610.5	2495.6	2457.3
80°	1402.5	1081.3	975.3	1134.4	1178.6	1390.7	2033.0	2189.2	2127.3	1926.9	1862.1
82.5°	704.2	648.2	766.1	892.8	895.7	992.9	1511.5	1658.8	1520.3	1275.8	1219.8
85°	368.3	380.1	527.4	627.6	553.9	536.2	907.5	1004.7	922.2	801.4	721.9
87.5°	132.6	153.2	277.0	274.0	194.5	103.1	200.4	97.2	53.0	32.4	41.2
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)