

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: P533298

Luminaire Tested: **GALN-SA8D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47141 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

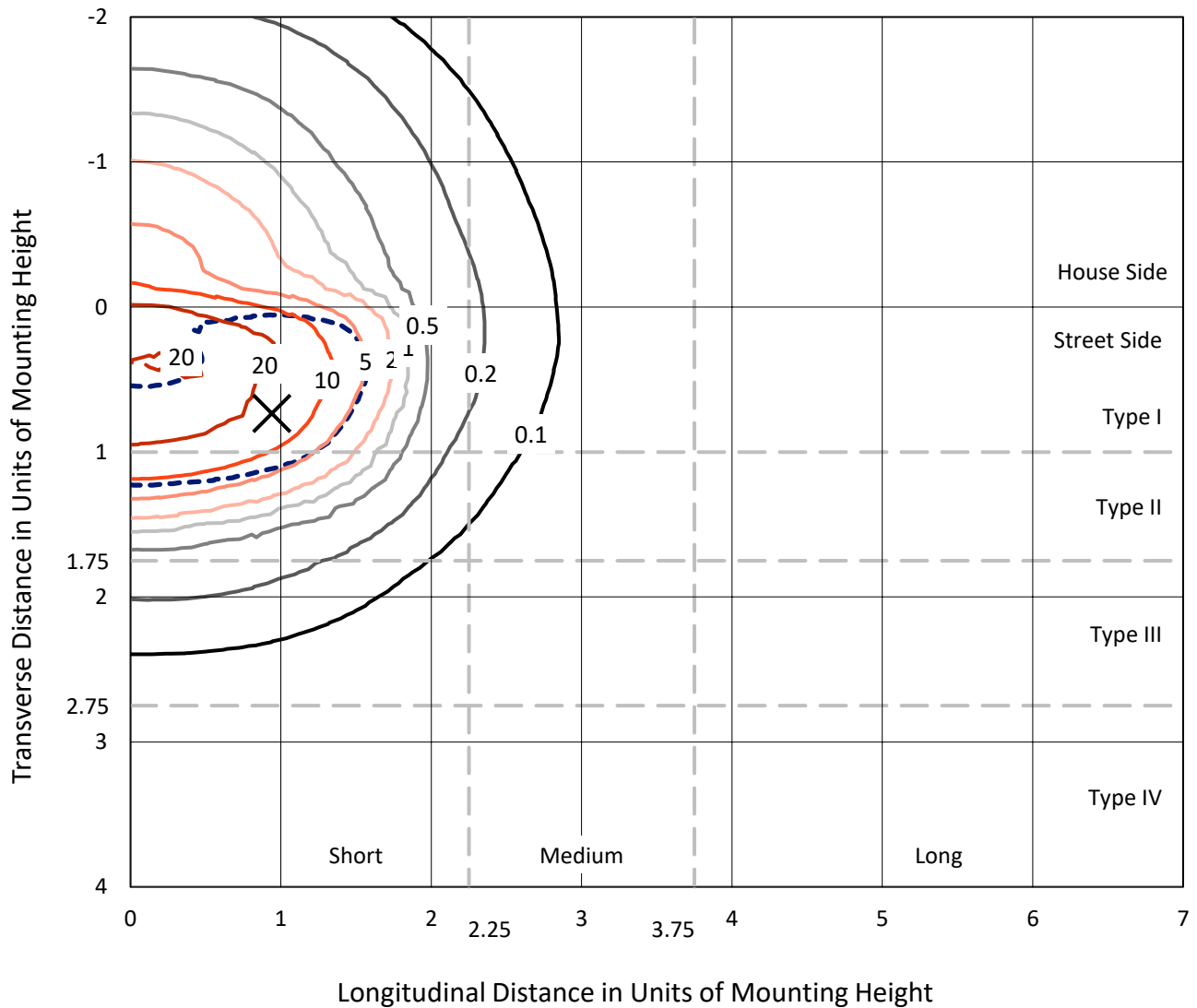
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

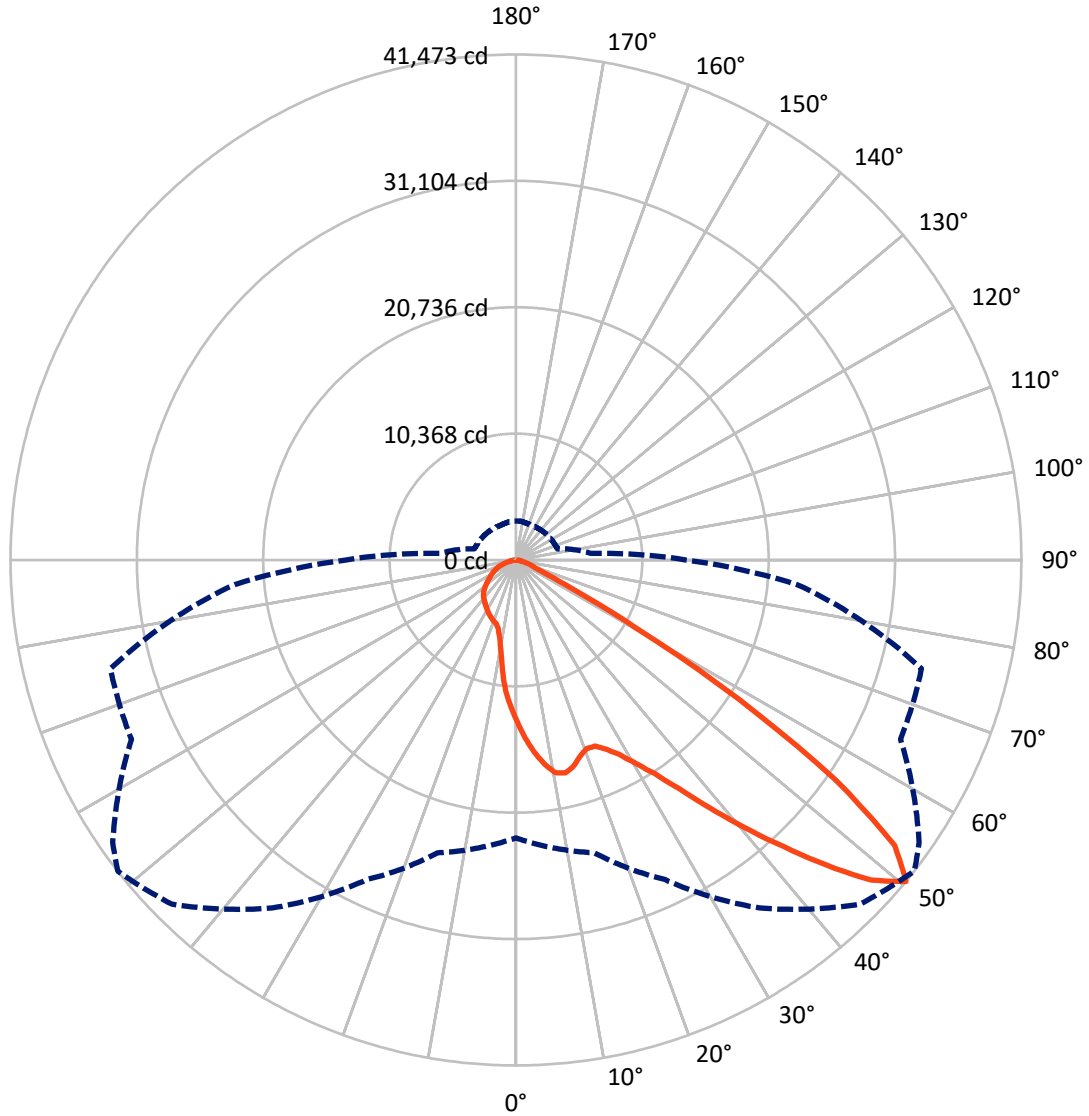
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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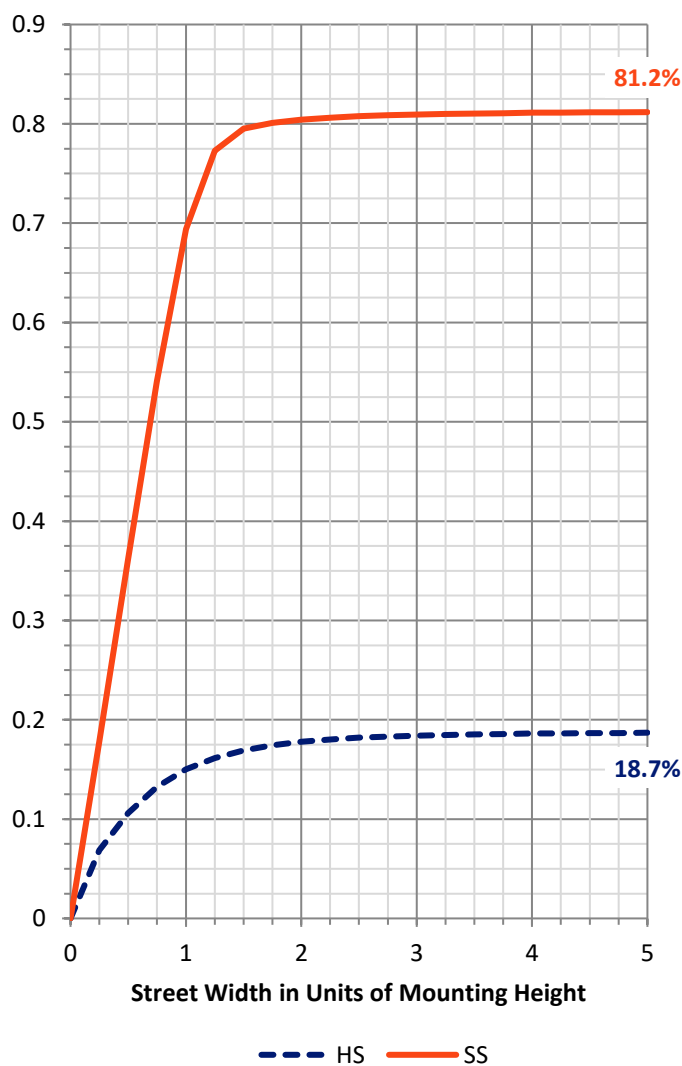
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8861.4	0.0	8861.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	38279.6	0.0	38279.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	47141.0	0.0	47141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.8	2.6
10°-20°	3282.7	7.0
20°-30°	5529.6	11.7
30°-40°	9279.1	19.7
40°-50°	14194.7	30.1
50°-60°	10349.1	22.0
60°-70°	2303.2	4.9
70°-80°	830.7	1.8
80°-90°	147.0	0.3
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°	47141.0	100.0
0°-180°	47141.0	100.0

**Coefficient of Utilization**



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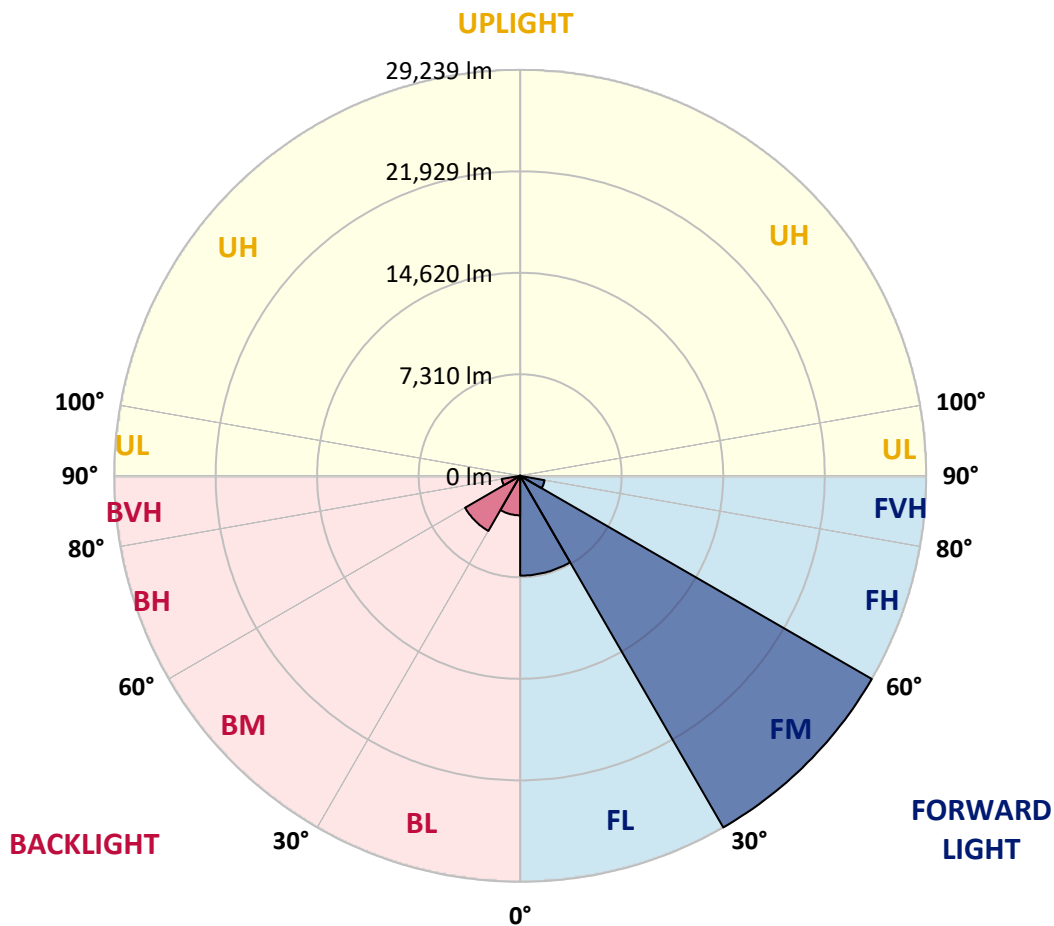
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7190.6	15.3			
FM (30°-60°)	29239.2	62.0			
FH (60°-80°)	1783.9	3.8			G1/1800
FVH (80°-90°)	65.9	0.1			G1/100
BL (0°-30°)	2846.5	6.0	B4/5000		
BM (30°-60°)	4583.7	9.7	B3/5000		
BH (60°-80°)	1350.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	81.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3
2.5°	15646.0	15344.9	15378.9	15163.1	14930.1	14862.0	14623.3	14396.1	14225.7	13862.1	13526.9
5°	17100.3	17009.4	16873.1	16702.7	16526.5	16094.8	15850.5	15566.4	14941.5	14379.1	13822.3
7.5°	17310.5	17293.5	17367.3	17367.3	17429.8	17265.1	16918.5	16719.7	16055.0	15140.3	14106.4
10°	15833.4	15884.6	16242.5	16708.3	17356.0	17804.8	17748.0	17696.9	16969.7	15719.8	14441.5
12.5°	14657.4	14543.8	14754.0	15151.7	16123.2	17208.3	17941.1	17946.8	17759.4	16645.8	14685.8
15°	13992.7	14072.3	14129.1	14316.6	15049.4	16305.0	17594.6	17975.2	18799.0	17299.2	15072.2
17.5°	14418.8	14151.8	14140.4	14185.9	14560.8	15503.9	16952.6	17606.0	19367.1	18140.0	15549.4
20°	14975.6	14969.9	14810.8	14754.0	14748.3	15589.1	16532.2	17418.5	19668.2	19230.8	16032.3
22.5°	15952.7	15952.7	15691.4	15566.4	15299.4	15986.8	16589.0	17191.2	20168.2	19980.7	16265.2
25°	17588.9	17321.9	16873.1	16566.3	16412.9	16657.2	17191.2	17730.9	20605.6	20776.1	16748.1
27.5°	19100.1	18679.7	18458.1	17929.8	17725.3	17583.2	18071.8	18617.2	21116.9	22014.5	17009.4
30°	20815.8	20742.0	20344.3	19662.5	19156.9	18895.6	19344.4	19884.1	22054.3	23281.5	17611.6
32.5°	23883.7	23213.3	22673.6	21838.4	21014.7	20457.9	20901.0	21259.0	23611.0	24605.2	18270.7
35°	27195.8	26979.9	26048.2	24542.7	23281.5	22781.5	23042.8	23309.9	25423.3	26627.7	19378.5
37.5°	30451.1	30155.7	29388.7	28121.8	26587.9	25571.0	25758.4	26070.9	27457.1	29354.6	20730.6
40°	32791.7	32428.1	32041.8	31854.3	30331.8	28939.9	28832.0	28911.5	30206.8	31911.2	22230.4
42.5°	32962.2	33411.0	33530.3	34285.9	33928.0	32786.1	32121.4	32138.4	32831.5	34439.3	23747.3
45°	32604.3	32189.5	33070.1	35132.4	36314.1	36848.1	35728.9	35586.9	34456.3	35905.0	24502.9
47.5°	28849.0	28962.6	30451.1	33712.1	37126.5	39512.6	39251.2	38779.7	35325.5	35853.9	24383.6
50°	22804.2	23491.7	24872.2	28934.2	34854.0	39933.0	41472.6	40381.8	34808.6	34445.0	23167.8
52.5°	15185.8	15469.8	16378.8	21622.5	28025.2	35694.8	38916.0	39166.0	34331.3	32598.6	21628.2
55°	6760.6	6737.9	8016.1	11294.2	17583.2	27161.7	31797.5	33320.1	32496.3	30718.1	20128.4
57.5°	2863.3	2959.9	3482.6	4880.1	8646.7	16390.2	21543.0	22878.1	24991.5	25224.4	15441.4
60°	1937.3	1948.6	2090.7	2442.9	3618.9	7698.0	11299.9	12901.9	14413.1	14310.9	8192.3
62.5°	1522.6	1562.3	1670.3	1812.3	2147.5	3493.9	5056.2	5948.2	6044.8	5084.7	3107.6
65°	1301.0	1306.7	1414.6	1533.9	1681.6	2033.9	2437.2	2482.7	2511.1	2420.2	2283.8
67.5°	1073.7	1085.1	1170.3	1306.7	1443.0	1556.6	1670.3	1727.1	1857.7	2113.4	2079.3
70°	852.2	869.2	943.1	1056.7	1181.7	1249.9	1391.9	1443.0	1562.3	1761.2	1840.7
72.5°	647.7	653.3	715.8	795.4	909.0	977.2	1096.5	1153.3	1232.8	1403.3	1477.1
75°	465.9	482.9	528.3	568.1	585.2	630.6	744.2	806.7	920.4	994.2	999.9
77.5°	244.3	255.7	267.0	267.0	323.8	409.0	482.9	517.0	596.5	653.3	624.9
80°	96.6	102.3	130.7	176.1	227.2	295.4	346.6	363.6	431.8	465.9	482.9
82.5°	56.8	62.5	85.2	125.0	164.8	210.2	250.0	267.0	312.5	352.2	363.6
85°	28.4	34.1	51.1	79.5	107.9	130.7	125.0	119.3	119.3	113.6	119.3
87.5°	11.4	11.4	17.0	17.0	17.0	22.7	28.4	28.4	28.4	34.1	34.1
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°	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3	13288.3
2.5°	13305.3	13078.1	12867.9	12481.5	12061.1	11941.8	11453.2	11277.1	11152.1	11004.4	10959.0
5°	13373.5	13072.4	12396.3	11618.0	10998.8	10203.4	9680.7	9118.3	8709.2	8607.0	8578.6
7.5°	13515.5	12998.5	11833.9	10657.9	9391.0	8311.6	7487.8	7044.7	6652.7	6629.9	6590.2
10°	13674.6	12777.0	11220.3	9373.9	7754.8	6754.9	6260.7	6067.5	5970.9	5948.2	5936.8
12.5°	13805.3	12731.5	10532.9	8124.1	6595.8	5993.6	5845.9	5828.9	5868.7	5880.0	5902.7
15°	13862.1	12549.7	9703.4	7004.9	5874.3	5652.8	5715.3	5783.4	5811.8	5885.7	5828.9
17.5°	13970.0	12316.8	8680.8	6118.6	5471.0	5510.7	5618.7	5698.2	5743.7	5794.8	5720.9
20°	14026.8	12106.6	7720.7	5590.3	5328.9	5402.8	5550.5	5613.0	5669.8	5692.5	5607.3
22.5°	13975.7	11674.8	6874.2	5164.2	5192.6	5289.2	5419.8	5488.0	5453.9	5363.0	5311.9
25°	13839.3	11066.9	5993.6	4891.5	4999.4	5169.9	5272.1	5221.0	5158.5	5107.4	5090.3
27.5°	13833.7	10322.7	5357.3	4641.5	4834.7	5067.6	5033.5	4988.1	5016.5	4976.7	4931.3
30°	13862.1	9601.2	4834.7	4499.5	4715.4	4829.0	4868.8	4823.3	4857.4	4783.5	4806.3
32.5°	13714.4	8896.7	4493.8	4334.7	4573.3	4567.7	4698.3	4732.4	4652.9	4499.5	4522.2
35°	13776.8	8328.6	4204.1	4260.9	4414.3	4414.3	4516.5	4476.8	4266.6	4175.7	4198.4
37.5°	14208.6	7771.8	4062.0	4158.6	4260.9	4306.3	4272.2	4101.8	4050.7	4050.7	4062.0
40°	14617.7	7294.6	3976.8	4135.9	4118.9	4147.3	3897.3	3914.3	3914.3	3920.0	3891.6
42.5°	14981.3	6970.8	3908.6	3999.5	4028.0	3880.2	3726.9	3709.8	3749.6	3743.9	3721.2
45°	15111.9	6703.8	3812.1	3846.2	3868.9	3624.6	3550.7	3516.6	3562.1	3579.1	3601.9
47.5°	14612.0	6482.2	3704.1	3636.0	3590.5	3431.4	3334.8	3272.4	3329.2	3425.7	3448.5
50°	13970.0	6192.5	3533.7	3403.0	3306.4	3238.3	3170.1	3107.6	3147.4	3215.5	3198.5
52.5°	13021.3	5738.0	3317.8	3181.5	3016.7	3033.7	2971.3	2937.2	2959.9	2959.9	2942.8
55°	11669.1	4715.4	2954.2	2857.6	2721.3	2766.7	2778.1	2732.6	2687.2	2727.0	2692.9
57.5°	7965.0	3329.2	2636.1	2636.1	2499.7	2562.2	2556.5	2448.6	2340.6	2352.0	2329.3
60°	4607.4	2653.1	2431.5	2408.8	2266.8	2317.9	2329.3	2255.4	2090.7	2102.0	2079.3
62.5°	2619.0	2266.8	2124.8	2090.7	2062.3	2107.7	2107.7	2011.1	1869.1	1880.5	1857.7
65°	2227.0	2102.0	1897.5	1891.8	1880.5	1891.8	1846.4	1744.1	1619.1	1568.0	1573.7
67.5°	2022.5	1943.0	1744.1	1693.0	1658.9	1653.2	1568.0	1471.4	1414.6	1369.2	1363.5
70°	1772.5	1710.0	1562.3	1494.1	1460.1	1380.5	1295.3	1232.8	1153.3	1130.6	1153.3
72.5°	1403.3	1397.6	1340.8	1266.9	1193.0	1130.6	1056.7	971.5	897.6	880.6	840.8
75°	971.5	982.8	994.2	982.8	920.4	840.8	755.6	687.4	596.5	545.4	534.0
77.5°	636.3	653.3	670.4	647.7	607.9	534.0	477.2	392.0	323.8	284.1	278.4
80°	465.9	488.6	499.9	482.9	437.5	380.6	318.1	250.0	198.8	164.8	164.8
82.5°	357.9	380.6	392.0	363.6	318.1	272.7	227.2	176.1	136.3	107.9	102.3
85°	125.0	119.3	142.0	147.7	176.1	164.8	136.3	102.3	79.5	56.8	51.1
87.5°	34.1	34.1	39.8	39.8	34.1	28.4	28.4	28.4	22.7	17.0	17.0
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)