

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: P530892

Luminaire Tested: **GALN-SA6A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16722 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

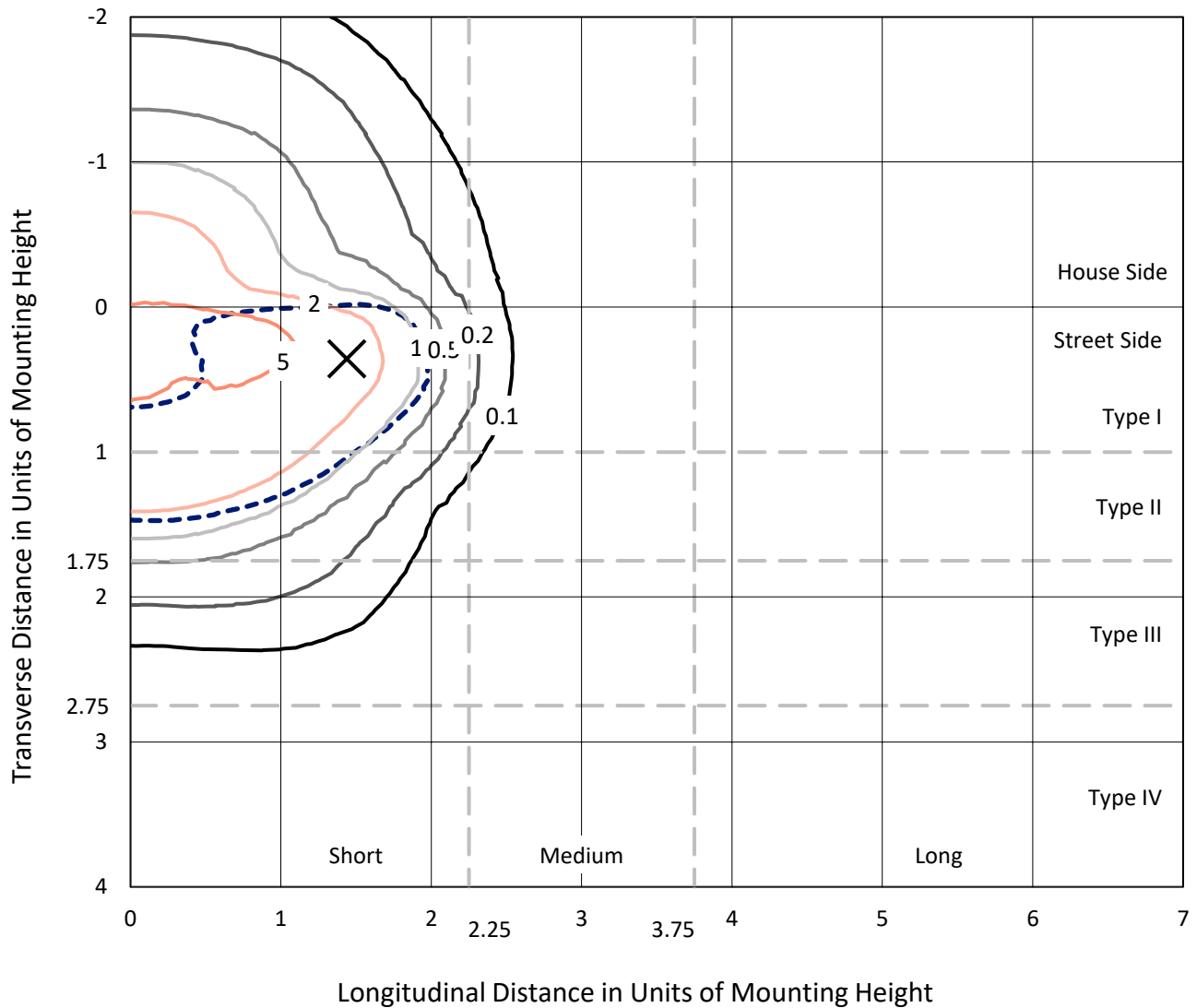
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

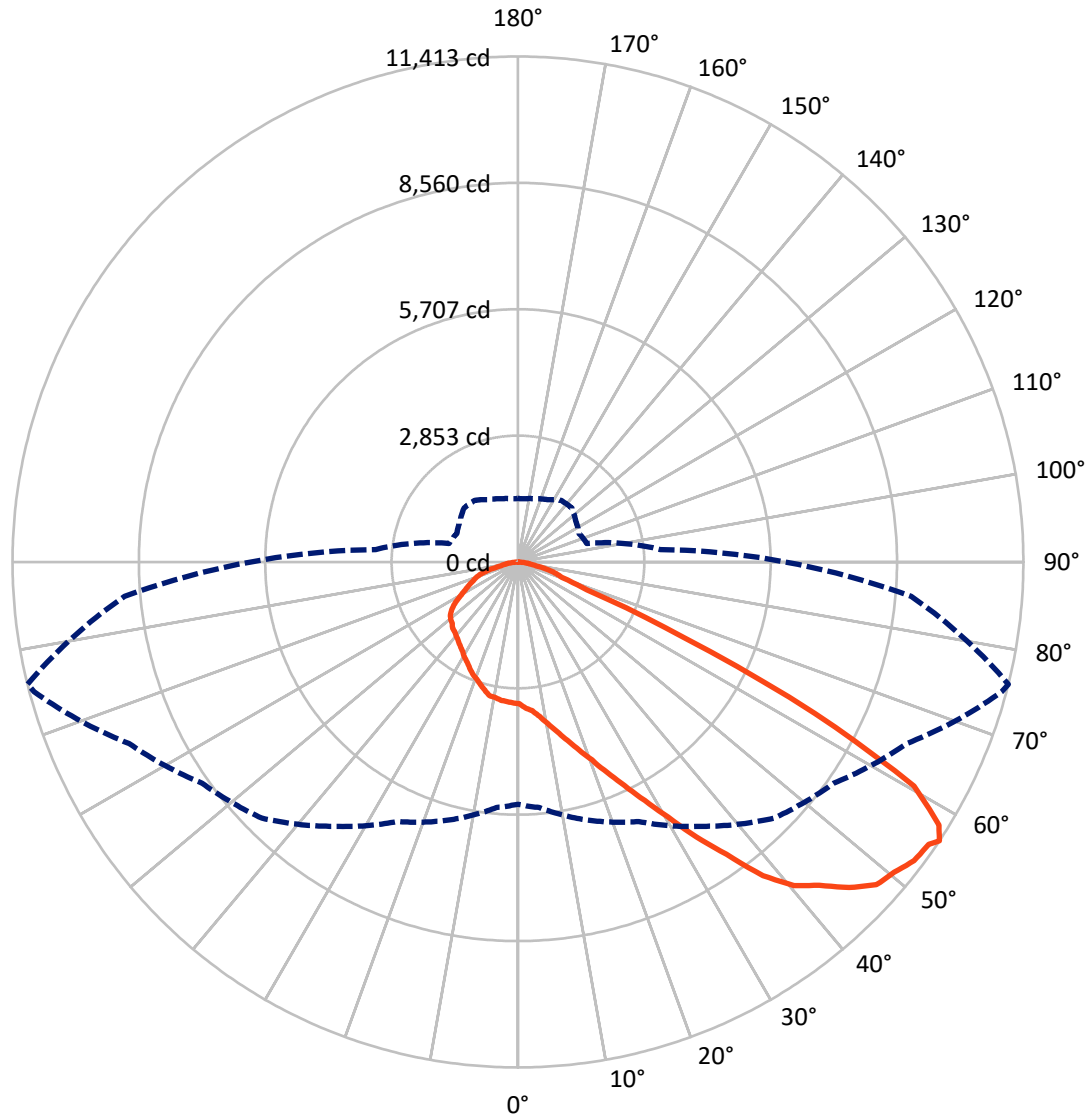
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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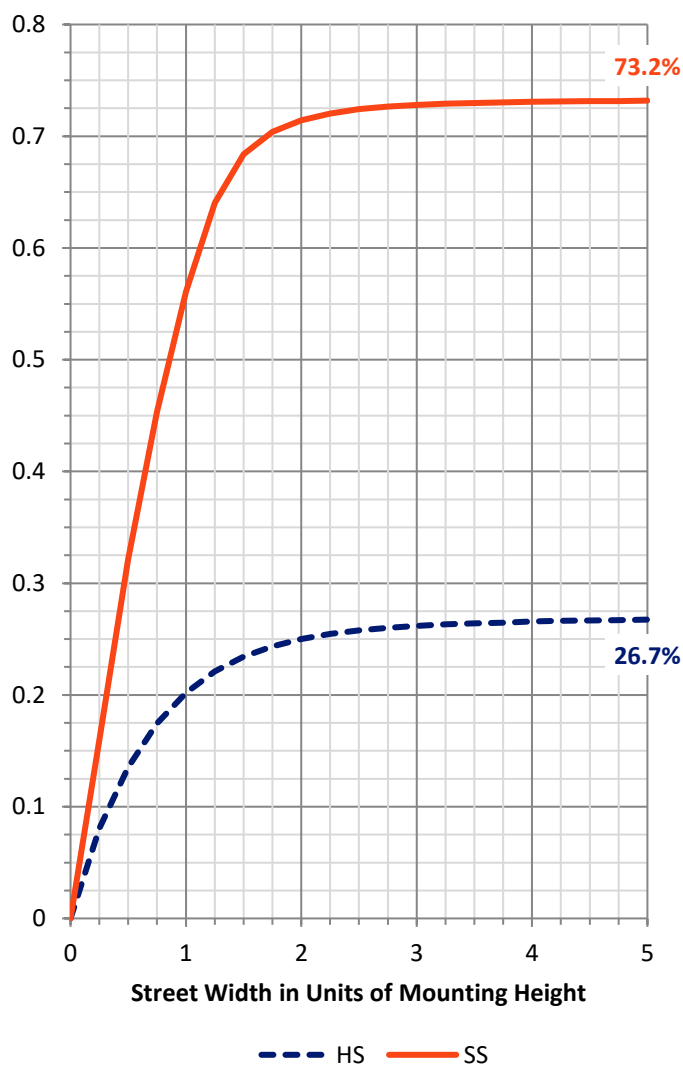
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4496.0	0.0	4496.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	12226.0	0.0	12226.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	16722.0	0.0	16722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.3	1.9
10°-20°	996.7	6.0
20°-30°	1743.2	10.4
30°-40°	2729.3	16.3
40°-50°	3970.3	23.7
50°-60°	4363.6	26.1
60°-70°	1947.7	11.6
70°-80°	562.6	3.4
80°-90°	91.2	0.5
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°	16722.0	100.0
0°-180°	16722.0	100.0

**Coefficient of Utilization**



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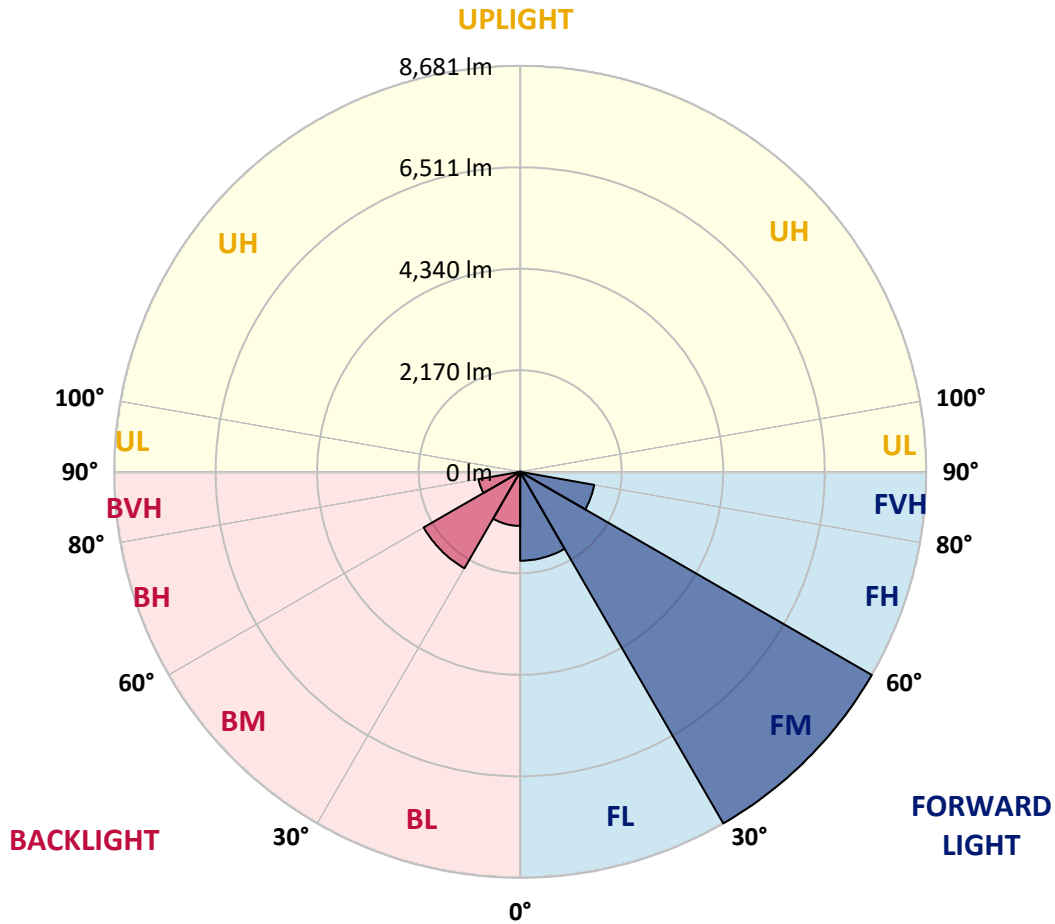
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.3	11.4			
FM (30°-60°)	8680.7	51.9			
FH (60°-80°)	1605.7	9.6			G1/1800
FVH (80°-90°)	39.3	0.2			G1/100
BL (0°-30°)	1156.9	6.9	B3/2500		
BM (30°-60°)	2382.5	14.2	B2/2500		
BH (60°-80°)	904.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	52.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3524.7	3468.3	3464.0	3448.8	3457.5	3418.5	3377.3	3323.1	3266.7	3301.4	3219.0
5°	3771.8	3695.9	3726.3	3674.3	3680.8	3628.7	3544.2	3481.3	3412.0	3370.8	3312.3
7.5°	3858.5	3865.0	3886.7	3878.0	3834.7	3834.7	3778.3	3667.8	3546.4	3522.5	3425.0
10°	3975.6	3977.7	3953.9	3960.4	4021.1	3992.9	3943.1	3895.4	3739.3	3711.1	3537.7
12.5°	4016.8	3977.7	4016.8	4051.5	4123.0	4162.0	4151.2	4116.5	3949.6	3930.1	3676.4
15°	4023.3	3999.4	4031.9	4110.0	4172.8	4337.6	4420.0	4396.1	4175.0	4177.2	3832.5
17.5°	3992.9	4025.4	4038.4	4105.6	4250.9	4404.8	4643.2	4675.8	4493.7	4465.5	4029.8
20°	4034.1	4010.3	4027.6	4088.3	4281.2	4521.8	4834.0	5048.6	4792.8	4773.3	4233.5
22.5°	4192.4	4159.8	4155.5	4194.5	4333.3	4582.5	5035.6	5421.4	5157.0	5167.8	4487.2
25°	4315.9	4333.3	4318.1	4315.9	4402.6	4673.6	5302.2	5865.8	5651.2	5588.4	4786.3
27.5°	4528.3	4569.5	4539.2	4580.4	4560.9	4810.1	5493.0	6357.9	6184.5	6099.9	5057.3
30°	4823.2	4844.8	4816.7	4816.7	4758.1	5000.9	5666.4	6871.6	6800.1	6685.2	5375.9
32.5°	5211.2	5243.7	5187.3	5154.8	5146.1	5284.9	5978.5	7378.9	7500.3	7402.7	5798.6
35°	5724.9	5705.4	5638.2	5607.9	5490.8	5720.6	6442.4	7962.0	8280.7	8107.2	6310.2
37.5°	6178.0	6147.6	6143.3	5974.2	6002.4	6191.0	6837.0	8404.2	9037.2	8987.3	6850.0
40°	6600.7	6628.9	6674.4	6579.0	6535.6	6743.7	7296.5	8742.4	9624.6	9605.1	7266.2
42.5°	7053.7	7027.7	7107.9	7027.7	6962.7	7257.5	7795.1	8976.5	10140.5	9980.1	7701.9
45°	7710.5	7628.2	7656.4	7662.9	7615.2	7723.6	8001.0	9145.6	10502.6	10485.2	8020.5
47.5°	8259.0	8261.1	8213.5	8176.6	8031.4	8139.8	8230.8	9251.8	10918.8	10890.6	8144.1
50°	8462.7	8434.6	8573.3	8653.5	8662.2	8441.1	8410.7	9310.3	11137.7	11014.1	8267.6
52.5°	7730.1	7756.1	7975.0	8451.9	8727.2	8751.0	8621.0	9431.7	11226.6	11200.6	8367.4
55°	6221.3	6347.1	6706.9	7257.5	7910.0	8627.5	8848.6	9557.4	11274.3	11252.6	8809.6
56°	5469.1	5566.7	6034.9	6466.3	7285.7	8178.8	8705.5	9691.8	11311.1	11413.0	8913.6
57.5°	4402.6	4515.3	4851.3	5341.2	6308.0	7324.7	8311.0	9527.1	11168.0	11207.1	8989.5
60°	2753.0	2763.8	3167.0	3490.0	4170.7	5163.5	6342.7	8289.3	10335.6	10279.3	8074.7
62.5°	1805.7	1807.9	2174.2	2438.7	2748.7	2976.3	3732.8	5497.3	7626.0	7526.3	5748.8
65°	1268.1	1296.3	1580.3	1933.6	2059.3	1940.1	1916.3	2898.2	4259.6	4116.5	3089.0
67.5°	927.8	929.9	1181.4	1560.8	1742.8	1476.2	1198.7	1415.5	1686.5	1682.1	1430.7
70°	613.5	639.5	832.4	1166.2	1374.3	1185.7	979.8	1012.3	1073.0	1073.0	1064.3
72.5°	357.7	381.5	509.4	739.2	771.7	741.4	776.0	867.1	906.1	903.9	893.1
75°	203.8	214.6	242.8	307.8	383.7	453.1	570.1	656.8	695.8	719.7	691.5
77.5°	119.2	125.7	143.1	175.6	199.4	245.0	310.0	370.7	422.7	416.2	420.5
80°	62.9	62.9	80.2	104.1	138.7	173.4	205.9	240.6	268.8	275.3	281.8
82.5°	36.9	39.0	52.0	75.9	99.7	123.6	158.2	182.1	208.1	210.3	214.6
85°	19.5	21.7	32.5	49.9	67.2	75.9	78.0	73.7	80.2	75.9	86.7
87.5°	6.5	6.5	10.8	8.7	8.7	10.8	13.0	13.0	17.3	17.3	17.3
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°	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3216.9	3216.9	3180.0	3110.7	3099.8	3071.6	3045.6	3043.5	3024.0	3006.6	2997.9
5°	3277.6	3210.4	3156.2	3093.3	3019.6	2984.9	2945.9	2902.6	2885.2	2902.6	2900.4
7.5°	3346.9	3290.6	3128.0	3010.9	2926.4	2891.7	2848.4	2802.8	2807.2	2807.2	2776.8
10°	3414.1	3338.3	3078.1	2928.6	2805.0	2779.0	2755.2	2772.5	2794.2	2798.5	2779.0
12.5°	3526.9	3355.6	3054.3	2846.2	2768.2	2711.8	2727.0	2774.7	2820.2	2807.2	2822.4
15°	3611.4	3370.8	2945.9	2761.7	2664.1	2690.1	2744.3	2776.8	2852.7	2844.0	2859.2
17.5°	3693.8	3379.5	2839.7	2648.9	2607.8	2679.3	2720.5	2813.7	2837.5	2889.6	2909.1
20°	3862.9	3396.8	2731.3	2579.6	2566.6	2648.9	2720.5	2763.8	2815.9	2861.4	2861.4
22.5°	3949.6	3388.1	2659.8	2488.5	2529.7	2581.7	2646.8	2720.5	2720.5	2763.8	2766.0
25°	4058.0	3353.4	2547.1	2445.2	2475.5	2525.4	2599.1	2573.1	2601.3	2601.3	2635.9
27.5°	4181.5	3279.7	2449.5	2367.1	2427.8	2482.0	2492.9	2475.5	2443.0	2438.7	2425.7
30°	4281.2	3188.7	2378.0	2341.1	2391.0	2421.3	2386.6	2349.8	2293.4	2289.1	2258.8
32.5°	4417.8	3076.0	2289.1	2276.1	2332.5	2334.6	2323.8	2267.4	2185.1	2150.4	2115.7
35°	4647.6	3010.9	2221.9	2241.4	2258.8	2252.3	2232.7	2172.0	2089.7	2074.5	2061.5
37.5°	4816.7	2963.3	2152.5	2176.4	2191.6	2200.2	2141.7	2074.5	2076.7	2046.3	2037.6
40°	5007.4	2932.9	2096.2	2107.0	2109.2	2137.4	2065.8	2033.3	2048.5	2029.0	2042.0
42.5°	5252.4	2941.6	2037.6	2029.0	2070.2	2059.3	2024.6	1981.3	1990.0	1931.4	1940.1
45°	5382.4	3000.1	2003.0	1963.9	2009.5	2007.3	1961.8	1920.6	1868.6	1755.8	1760.2
47.5°	5469.1	3015.3	1920.6	1894.6	1942.3	1970.4	1918.4	1823.0	1749.3	1669.1	1649.6
50°	5558.0	3043.5	1881.6	1827.4	1846.9	1914.1	1849.1	1758.0	1686.5	1614.9	1625.8
52.5°	5636.0	3097.7	1805.7	1725.5	1760.2	1833.9	1799.2	1688.6	1610.6	1552.1	1534.7
55°	5982.9	3219.0	1677.8	1573.8	1656.1	1749.3	1729.8	1595.4	1510.9	1480.5	1476.2
56°	6037.1	3223.4	1610.6	1521.7	1597.6	1721.2	1697.3	1554.2	1478.4	1430.7	1432.9
57.5°	6045.7	3171.4	1515.2	1474.0	1539.1	1680.0	1649.6	1521.7	1417.7	1374.3	1361.3
60°	5319.6	2475.5	1396.0	1370.0	1445.9	1554.2	1543.4	1432.9	1315.8	1265.9	1289.8
62.5°	3626.6	1814.4	1302.8	1298.5	1337.5	1443.7	1415.5	1315.8	1218.3	1185.7	1170.6
65°	2111.3	1376.5	1211.7	1194.4	1226.9	1283.3	1302.8	1198.7	1096.9	1075.2	1068.7
67.5°	1246.4	1138.0	1094.7	1066.5	1055.7	1090.4	1105.5	1044.8	943.0	912.6	938.6
70°	1042.7	1012.3	1014.5	966.8	940.8	916.9	903.9	849.7	765.2	726.2	715.3
72.5°	899.6	886.6	877.9	834.6	810.7	756.5	700.2	646.0	583.1	550.6	552.8
75°	687.2	682.8	687.2	665.5	624.3	580.9	528.9	459.6	411.9	370.7	379.3
77.5°	409.7	422.7	429.2	420.5	403.2	364.2	331.7	286.1	240.6	208.1	203.8
80°	281.8	292.6	303.5	292.6	275.3	247.1	212.4	177.8	145.2	127.9	123.6
82.5°	214.6	225.4	231.9	221.1	199.4	169.1	145.2	121.4	95.4	78.0	73.7
85°	78.0	88.9	86.7	104.1	112.7	108.4	93.2	71.5	54.2	39.0	36.9
87.5°	21.7	19.5	21.7	21.7	21.7	19.5	17.3	17.3	17.3	10.8	8.7
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)