

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: P529722

Luminaire Tested: **GALN-SA4D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529722  
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-SA4D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA 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: 18870 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

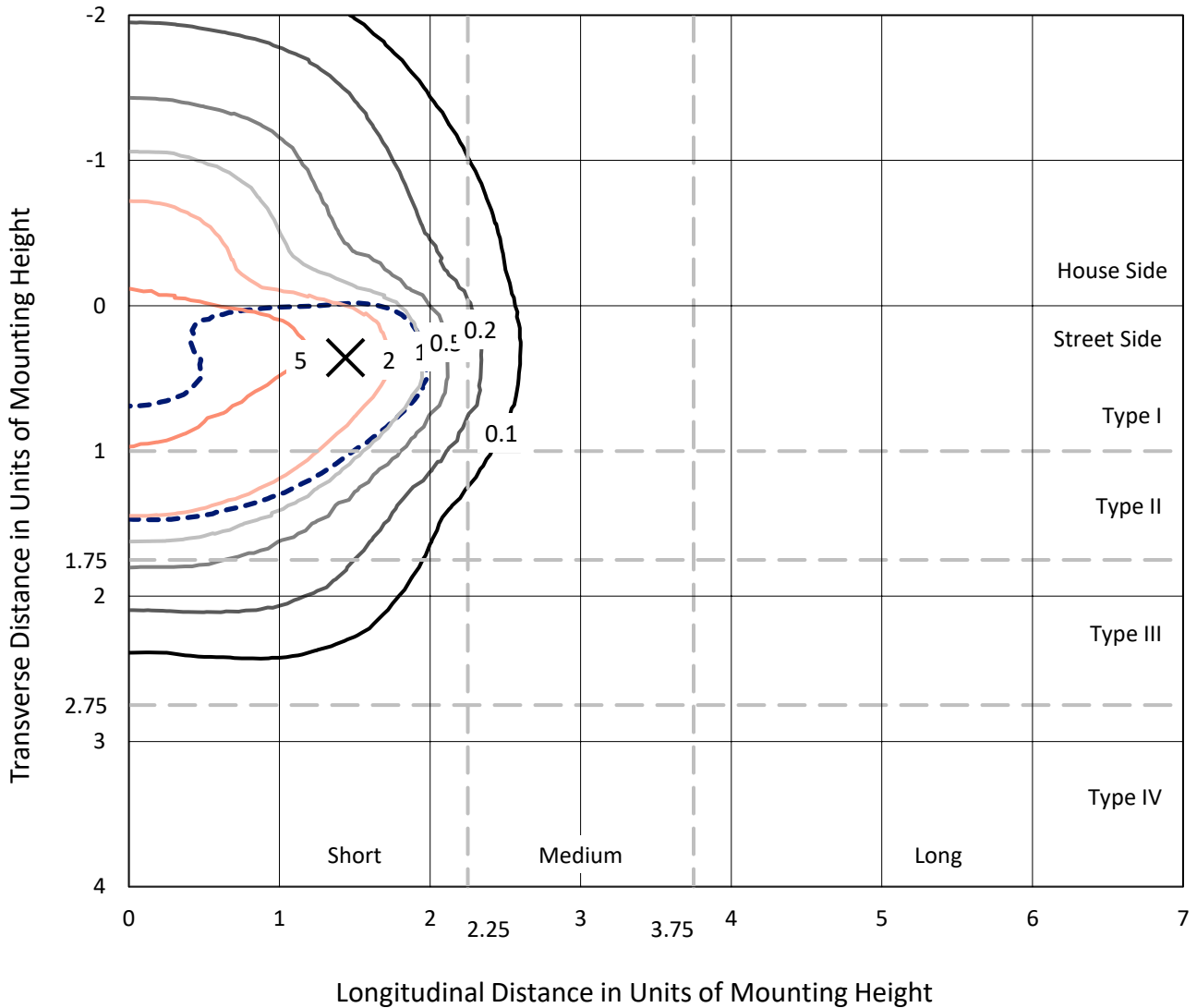
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

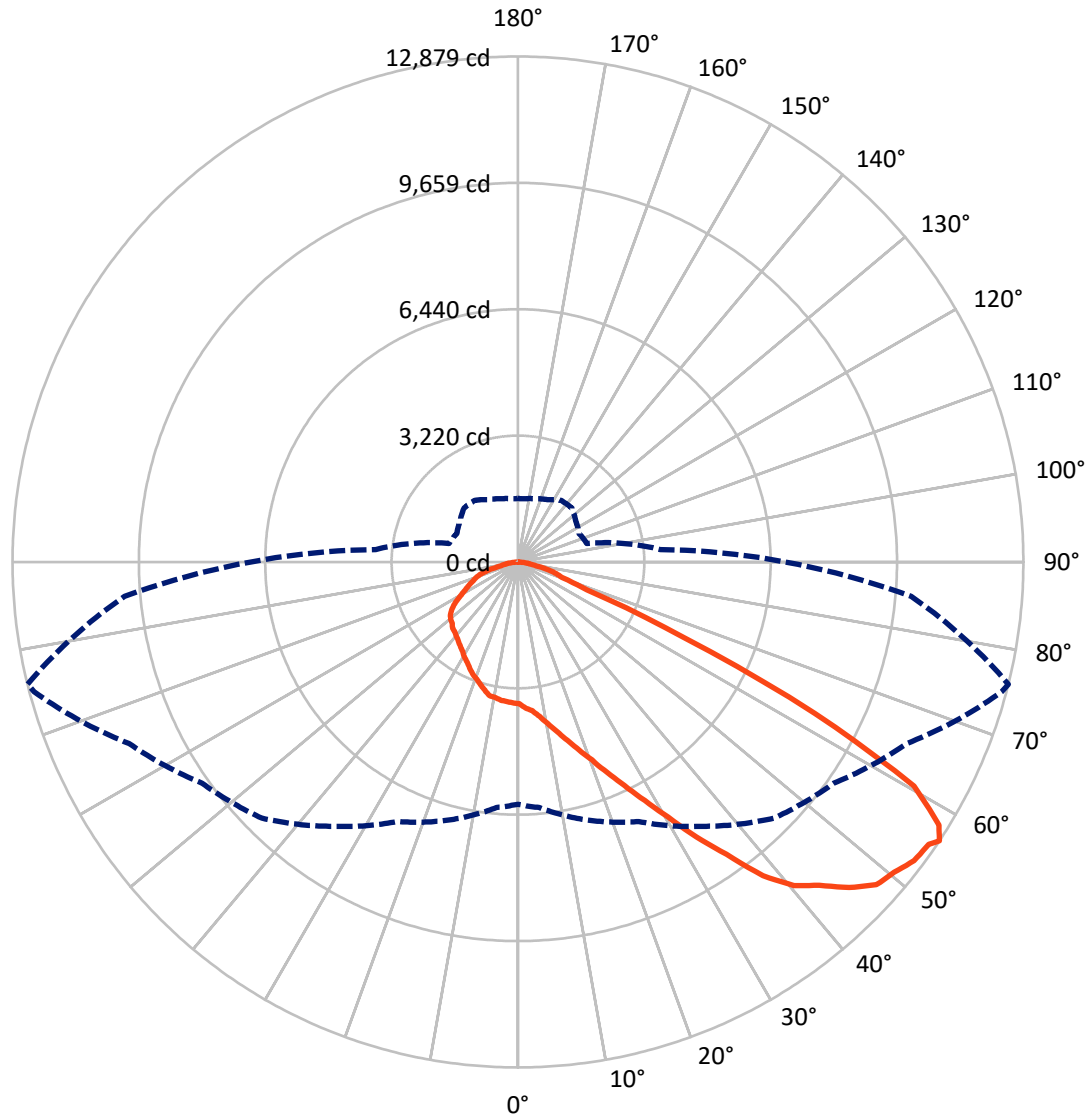
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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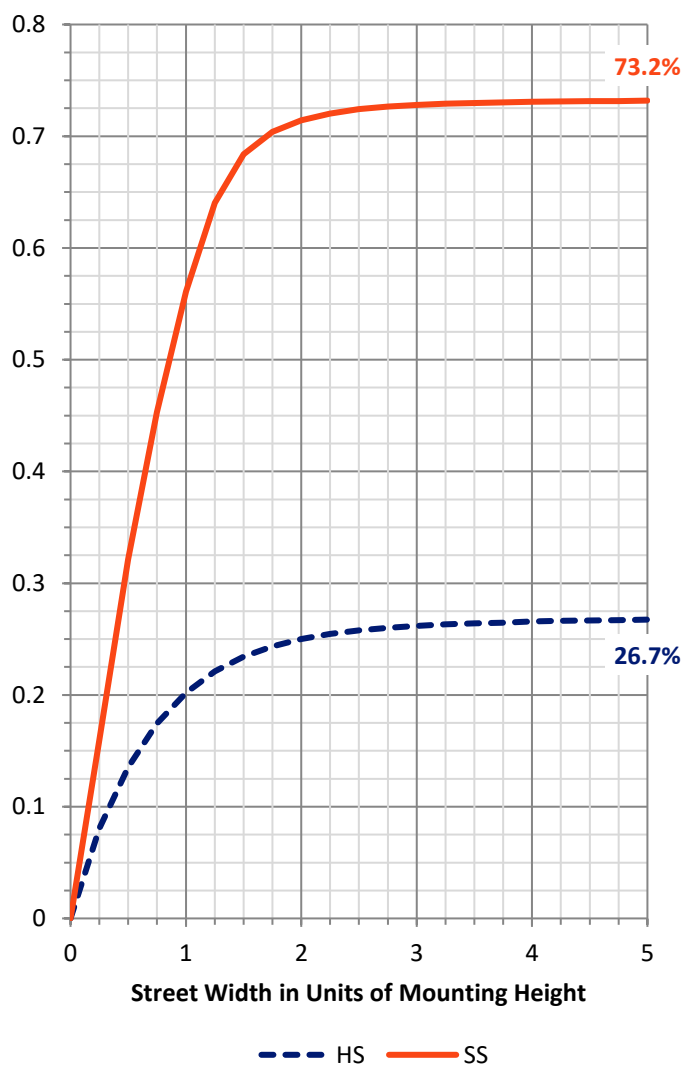
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5073.6	0.0	5073.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	13796.4	0.0	13796.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	18870.0	0.0	18870.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.1	1.9
10°-20°	1124.8	6.0
20°-30°	1967.1	10.4
30°-40°	3079.9	16.3
40°-50°	4480.3	23.7
50°-60°	4924.2	26.1
60°-70°	2197.9	11.6
70°-80°	634.8	3.4
80°-90°	103.0	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°	18870.0	100.0
0°-180°	18870.0	100.0

**Coefficient of Utilization**



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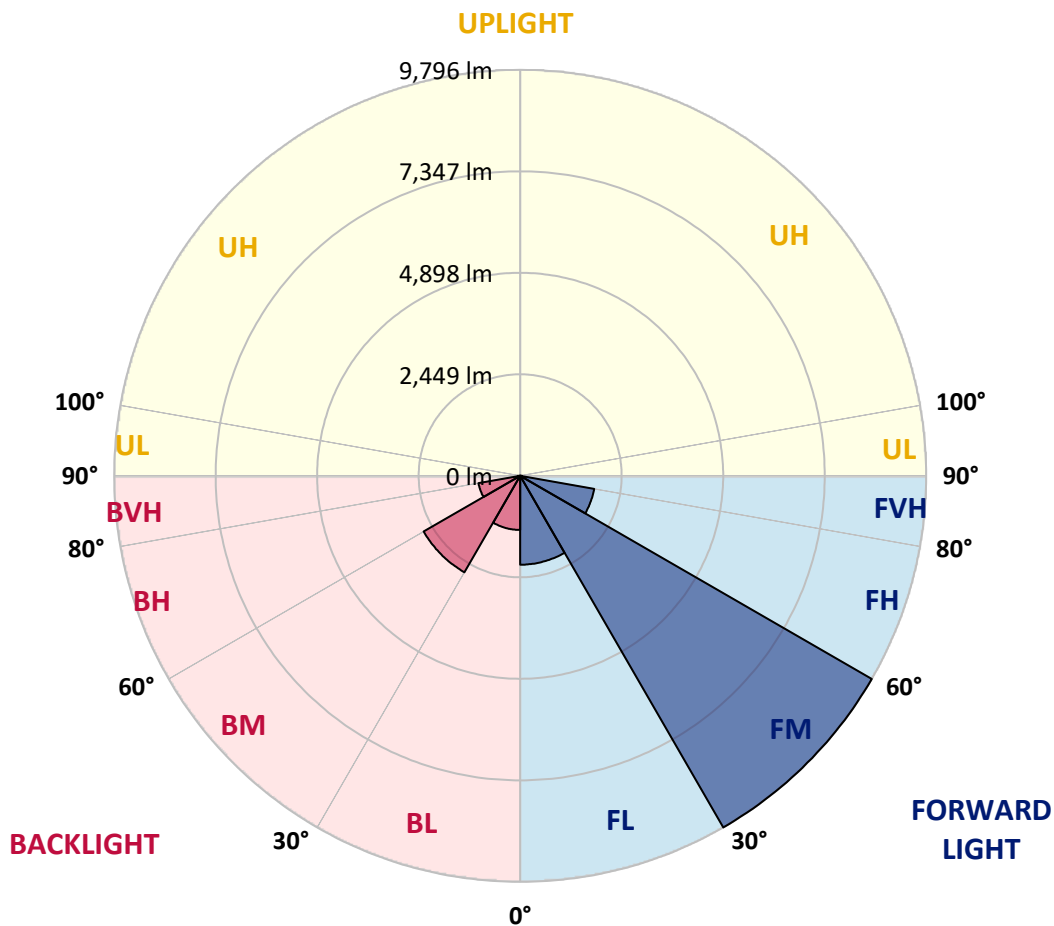
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.4	11.4			
FM (30°-60°)	9795.8	51.9			
FH (60°-80°)	1812.0	9.6			G2/5000
FVH (80°-90°)	44.3	0.2			G1/100
BL (0°-30°)	1305.5	6.9	B3/2500		
BM (30°-60°)	2688.6	14.2	B3/5000		
BH (60°-80°)	1020.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	58.7	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5
2.5°	3977.5	3913.9	3909.0	3891.8	3901.6	3857.6	3811.1	3750.0	3686.4	3725.5	3632.5
5°	4256.3	4170.7	4204.9	4146.2	4153.6	4094.9	3999.5	3928.5	3850.3	3803.8	3737.7
7.5°	4354.2	4361.5	4386.0	4376.2	4327.3	4327.3	4263.7	4138.9	4001.9	3975.0	3864.9
10°	4486.3	4488.7	4461.8	4469.1	4537.6	4505.8	4449.6	4395.7	4219.6	4187.8	3992.1
12.5°	4532.7	4488.7	4532.7	4571.9	4652.6	4696.6	4684.4	4645.3	4456.9	4434.9	4148.7
15°	4540.1	4513.2	4549.9	4637.9	4708.9	4894.8	4987.7	4960.8	4711.3	4713.8	4324.8
17.5°	4505.8	4542.5	4557.2	4633.0	4796.9	4970.6	5239.7	5276.4	5070.9	5039.1	4547.4
20°	4552.3	4525.4	4545.0	4613.5	4831.2	5102.7	5454.9	5697.1	5408.5	5386.4	4777.4
22.5°	4730.9	4694.2	4689.3	4733.3	4889.9	5171.2	5682.4	6117.8	5819.4	5831.6	5063.6
25°	4870.3	4889.9	4872.8	4870.3	4968.2	5273.9	5983.3	6619.3	6377.1	6306.2	5401.1
27.5°	5110.0	5156.5	5122.3	5168.7	5146.7	5428.0	6198.6	7174.6	6978.9	6883.5	5706.9
30°	5442.7	5467.2	5435.4	5435.4	5369.3	5643.3	6394.3	7754.3	7673.6	7544.0	6066.5
32.5°	5880.6	5917.3	5853.7	5817.0	5807.2	5963.7	6746.5	8326.7	8463.7	8353.6	6543.5
35°	6460.3	6438.3	6362.5	6328.2	6196.1	6455.4	7270.0	8984.7	9344.3	9148.6	7120.8
37.5°	6971.6	6937.3	6932.4	6741.6	6773.4	6986.2	7715.2	9483.8	10198.0	10141.8	7729.9
40°	7448.6	7480.4	7531.7	7424.1	7375.2	7610.0	8233.8	9865.4	10861.0	10838.9	8199.5
42.5°	7959.8	7930.5	8021.0	7930.5	7857.1	8189.7	8796.4	10129.5	11443.1	11262.1	8691.2
45°	8701.0	8608.0	8639.8	8647.2	8593.4	8715.7	9028.8	10320.3	11851.6	11832.1	9050.8
47.5°	9319.9	9322.3	9268.5	9226.9	9063.0	9185.3	9288.1	10440.2	12321.3	12289.5	9190.2
50°	9549.8	9518.0	9674.6	9765.1	9774.9	9525.3	9491.1	10506.3	12568.4	12428.9	9329.7
52.5°	8723.0	8752.4	8999.4	9537.6	9848.2	9875.1	9728.4	10643.2	12668.7	12639.3	9442.2
55°	7020.5	7162.4	7568.4	8189.7	8926.0	9735.7	9985.2	10785.1	12722.5	12698.0	9941.2
56°	6171.7	6281.7	6810.1	7296.9	8221.5	9229.4	9823.8	10936.8	12764.1	12879.0	10058.6
57.5°	4968.2	5095.4	5474.5	6027.3	7118.3	8265.6	9378.6	10750.9	12602.6	12646.6	10144.2
60°	3106.6	3118.9	3573.8	3938.3	4706.4	5826.8	7157.5	9354.1	11663.3	11599.7	9111.9
62.5°	2037.7	2040.1	2453.5	2751.9	3101.7	3358.6	4212.3	6203.5	8605.6	8493.1	6487.2
65°	1431.0	1462.8	1783.3	2182.0	2323.9	2189.3	2162.4	3270.5	4806.7	4645.3	3485.8
67.5°	1047.0	1049.4	1333.2	1761.2	1966.7	1665.8	1352.7	1597.3	1903.1	1898.2	1614.5
70°	692.3	721.6	939.3	1316.0	1550.9	1338.0	1105.7	1142.4	1210.8	1210.8	1201.1
72.5°	403.6	430.5	574.8	834.1	870.8	836.6	875.7	978.5	1022.5	1020.0	1007.8
75°	229.9	242.2	274.0	347.4	433.0	511.2	643.3	741.2	785.2	812.1	780.3
77.5°	134.5	141.9	161.4	198.1	225.0	276.4	349.8	418.3	477.0	469.7	474.6
80°	70.9	70.9	90.5	117.4	156.6	195.7	232.4	271.5	303.3	310.7	318.0
82.5°	41.6	44.0	58.7	85.6	112.5	139.4	178.6	205.5	234.8	237.3	242.2
85°	22.0	24.5	36.7	56.3	75.8	85.6	88.1	83.2	90.5	85.6	97.8
87.5°	7.3	7.3	12.2	9.8	9.8	12.2	14.7	14.7	19.6	19.6	19.6
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°	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5	3610.5
2.5°	3630.1	3630.1	3588.5	3510.2	3498.0	3466.2	3436.9	3434.4	3412.4	3392.8	3383.0
5°	3698.6	3622.8	3561.6	3490.7	3407.5	3368.4	3324.3	3275.4	3255.8	3275.4	3273.0
7.5°	3776.9	3713.3	3529.8	3397.7	3302.3	3263.2	3214.3	3162.9	3167.8	3167.8	3133.5
10°	3852.7	3767.1	3473.5	3304.8	3165.3	3136.0	3109.1	3128.6	3153.1	3158.0	3136.0
12.5°	3979.9	3786.7	3446.6	3211.8	3123.7	3060.1	3077.3	3131.1	3182.5	3167.8	3184.9
15°	4075.3	3803.8	3324.3	3116.4	3006.3	3035.7	3096.8	3133.5	3219.1	3209.4	3226.5
17.5°	4168.3	3813.6	3204.5	2989.2	2942.7	3023.5	3069.9	3175.1	3202.0	3260.7	3282.7
20°	4359.1	3833.1	3082.2	2910.9	2896.3	2989.2	3069.9	3118.9	3177.6	3228.9	3228.9
22.5°	4456.9	3823.3	3001.4	2808.2	2854.7	2913.4	2986.8	3069.9	3069.9	3118.9	3121.3
25°	4579.2	3784.2	2874.2	2759.3	2793.5	2849.8	2932.9	2903.6	2935.4	2935.4	2974.5
27.5°	4718.6	3701.0	2764.2	2671.2	2739.7	2800.9	2813.1	2793.5	2756.8	2751.9	2737.3
30°	4831.2	3598.3	2683.4	2641.9	2698.1	2732.4	2693.2	2651.6	2588.0	2583.1	2548.9
32.5°	4985.3	3471.1	2583.1	2568.5	2632.1	2634.5	2622.3	2558.7	2465.7	2426.6	2387.5
35°	5244.6	3397.7	2507.3	2529.3	2548.9	2541.6	2519.5	2451.1	2358.1	2341.0	2326.3
37.5°	5435.4	3343.9	2429.0	2455.9	2473.1	2482.9	2416.8	2341.0	2343.4	2309.2	2299.4
40°	5650.6	3309.7	2365.4	2377.7	2380.1	2411.9	2331.2	2294.5	2311.6	2289.6	2304.3
42.5°	5927.0	3319.4	2299.4	2289.6	2336.1	2323.9	2284.7	2235.8	2245.6	2179.5	2189.3
45°	6073.8	3385.5	2260.3	2216.2	2267.6	2265.1	2213.8	2167.3	2108.6	1981.4	1986.3
47.5°	6171.7	3402.6	2167.3	2137.9	2191.8	2223.6	2164.9	2057.2	1974.1	1883.5	1861.5
50°	6272.0	3434.4	2123.3	2062.1	2084.1	2160.0	2086.6	1983.8	1903.1	1822.4	1834.6
52.5°	6360.0	3495.6	2037.7	1947.1	1986.3	2069.5	2030.3	1905.6	1817.5	1751.5	1731.9
55°	6751.4	3632.5	1893.3	1775.9	1868.9	1974.1	1952.0	1800.4	1705.0	1670.7	1665.8
56°	6812.6	3637.4	1817.5	1717.2	1802.8	1942.3	1915.3	1753.9	1668.3	1614.5	1616.9
57.5°	6822.3	3578.7	1709.9	1663.4	1736.8	1895.8	1861.5	1717.2	1599.8	1550.9	1536.2
60°	6002.9	2793.5	1575.3	1546.0	1631.6	1753.9	1741.7	1616.9	1484.8	1428.6	1455.5
62.5°	4092.4	2047.4	1470.1	1465.2	1509.3	1629.1	1597.3	1484.8	1374.7	1338.0	1320.9
65°	2382.6	1553.3	1367.4	1347.8	1384.5	1448.1	1470.1	1352.7	1237.8	1213.3	1206.0
67.5°	1406.5	1284.2	1235.3	1203.5	1191.3	1230.4	1247.5	1179.0	1064.1	1029.8	1059.2
70°	1176.6	1142.4	1144.8	1091.0	1061.6	1034.7	1020.0	958.9	863.5	819.5	807.2
72.5°	1015.2	1000.5	990.7	941.8	914.9	853.7	790.1	729.0	658.0	621.3	623.8
75°	775.4	770.5	775.4	751.0	704.5	655.6	596.9	518.6	464.8	418.3	428.1
77.5°	462.3	477.0	484.3	474.6	455.0	411.0	374.3	322.9	271.5	234.8	229.9
80°	318.0	330.2	342.5	330.2	310.7	278.9	239.7	200.6	163.9	144.3	139.4
82.5°	242.2	254.4	261.7	249.5	225.0	190.8	163.9	137.0	107.6	88.1	83.2
85°	88.1	100.3	97.8	117.4	127.2	122.3	105.2	80.7	61.2	44.0	41.6
87.5°	24.5	22.0	24.5	24.5	24.5	22.0	19.6	19.6	19.6	12.2	9.8
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)