

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: P530971

Luminaire Tested: **GALN-SA6B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18663 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

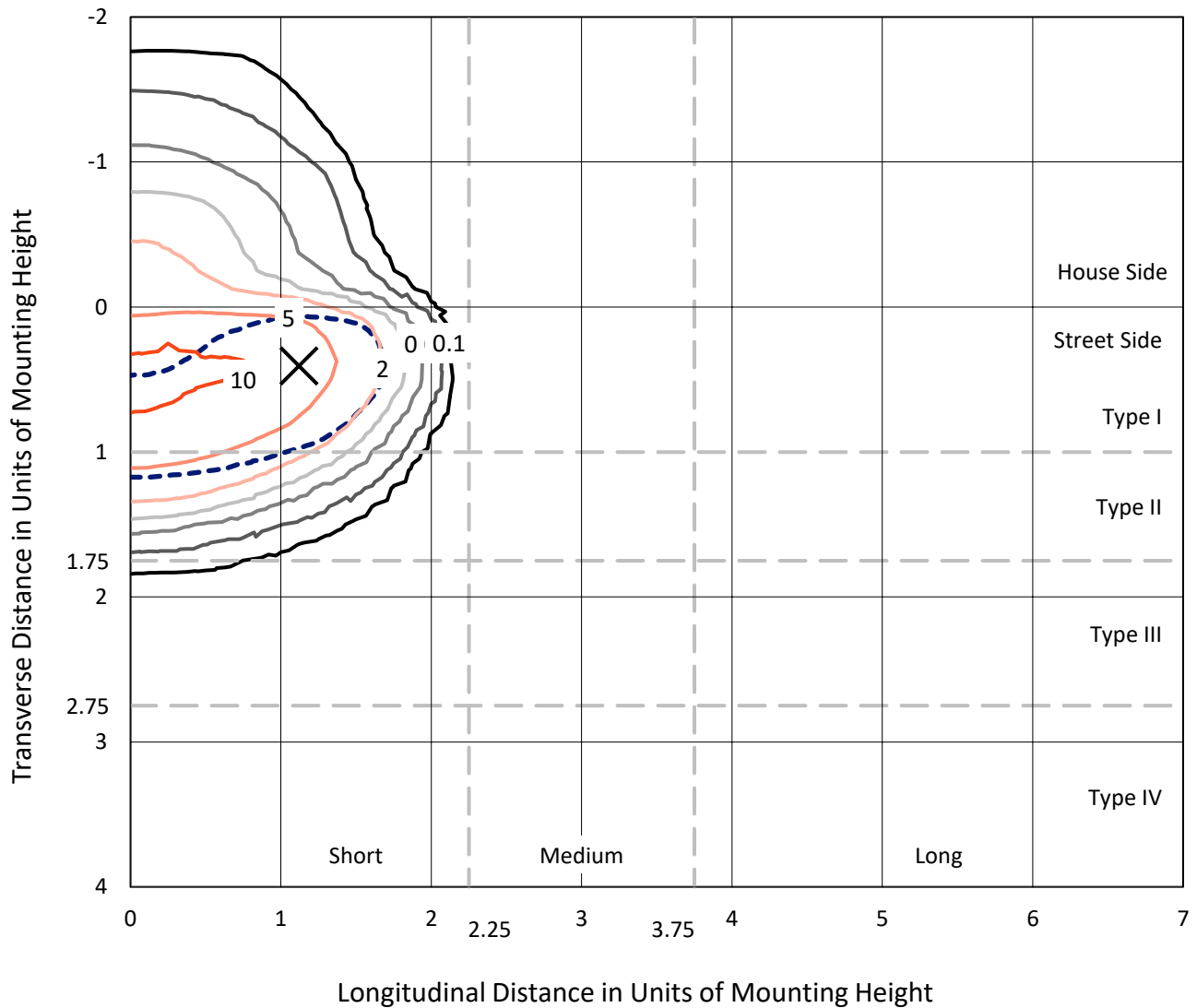
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

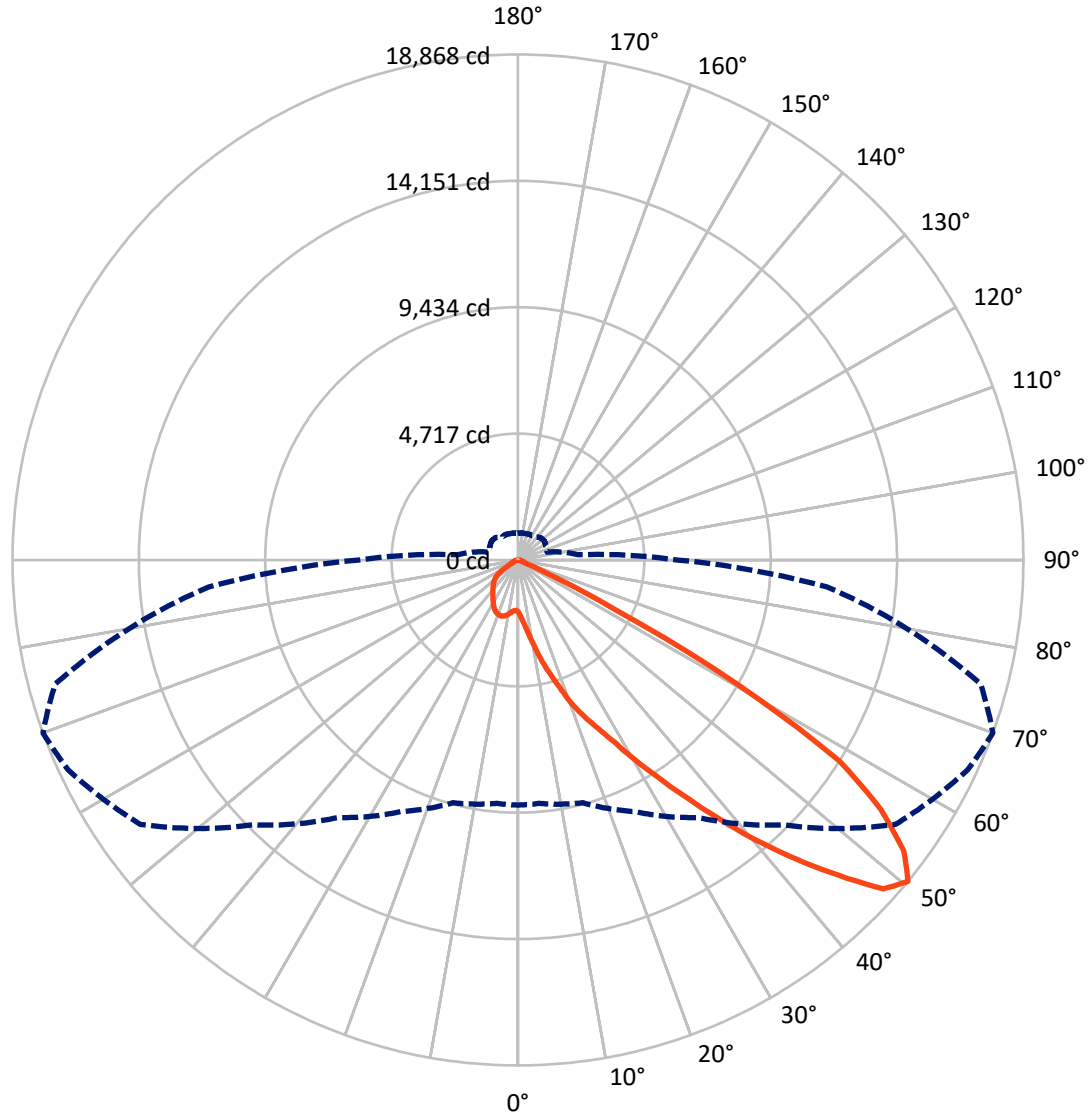
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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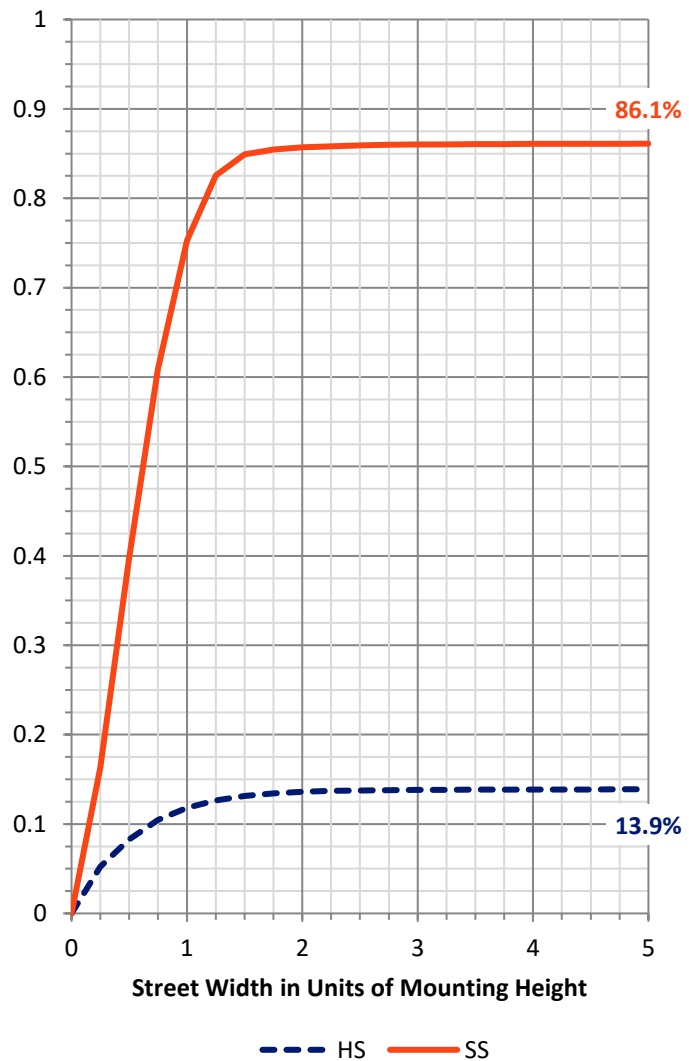
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2606.4	0.0	2606.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	16056.6	0.0	16056.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	18663.0	0.0	18663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	1.3
10°-20°	1087.4	5.8
20°-30°	2281.1	12.2
30°-40°	3931.9	21.1
40°-50°	5746.4	30.8
50°-60°	4475.5	24.0
60°-70°	758.3	4.1
70°-80°	104.2	0.6
80°-90°	27.0	0.1
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°	18663.0	100.0
0°-180°	18663.0	100.0

**Coefficient of Utilization**



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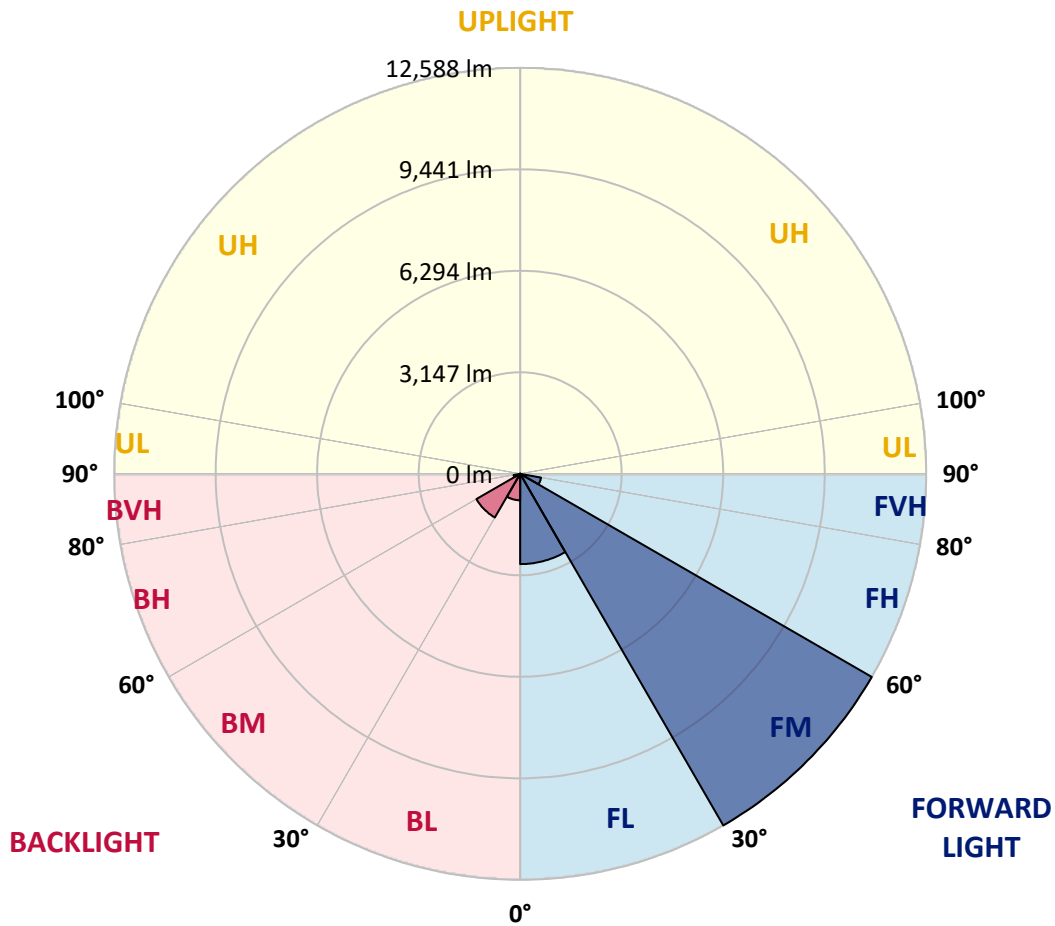
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2799.7	15.0			
FM (30°-60°)	12587.9	67.4			
FH (60°-80°)	656.6	3.5			G0/660
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	820.2	4.4	B2/1000		
BM (30°-60°)	1565.9	8.4	B2/2500		
BH (60°-80°)	205.9	1.1	B1/500		G1/500
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	2531.5	2513.1	2473.2	2399.5	2368.8	2295.2	2252.2	2169.4	2117.2	2058.9	1994.5
5°	3565.5	3470.4	3412.1	3329.3	3086.9	2936.5	2688.0	2476.2	2378.0	2270.6	2123.4
7.5°	4633.3	4572.0	4492.2	4314.2	4148.5	3835.6	3409.0	2942.6	2743.2	2559.1	2267.6
10°	5517.1	5345.2	5336.0	5204.1	5023.0	4648.7	4136.3	3556.3	3200.4	2930.4	2473.2
12.5°	6133.8	5977.3	6047.9	6032.6	5863.8	5520.1	4927.9	4160.8	3789.5	3369.2	2684.9
15°	6695.3	6630.9	6609.4	6591.0	6523.5	6268.8	5738.0	4897.2	4360.3	3854.0	2924.2
17.5°	7244.6	7078.9	7158.7	7174.0	7167.9	6937.8	6440.7	5596.8	4964.7	4366.4	3175.8
20°	7732.5	7747.8	7640.4	7618.9	7600.5	7591.3	7106.5	6290.3	5707.3	4903.4	3504.2
22.5°	8358.4	8251.0	8346.2	8284.8	8165.1	8091.5	7720.2	6904.0	6351.7	5550.8	3838.6
25°	9097.9	9183.9	8959.9	8935.3	8803.4	8548.7	8214.2	7591.3	6971.5	6152.2	4200.7
27.5°	10009.3	9858.9	9800.6	9665.6	9426.3	9318.9	8926.1	8300.1	7720.2	6784.3	4550.5
30°	10791.7	10751.8	10460.3	10300.8	10092.1	10089.0	9539.8	9260.6	8696.0	7775.4	5032.2
32.5°	11430.0	11255.1	11147.7	11037.2	10868.4	10914.5	10451.1	10303.8	9736.2	8696.0	5599.9
35°	11856.5	11730.7	11666.2	11497.5	11448.4	11653.9	11460.6	11399.3	10932.9	9990.9	6265.8
37.5°	11991.5	12031.4	12019.1	11807.4	11911.7	12467.1	12715.6	12556.1	12310.6	11356.3	6986.8
40°	12111.1	12138.8	12077.4	12325.9	12623.6	13255.7	14154.7	13890.8	13798.8	12740.2	7990.2
42.5°	12178.7	12157.2	12157.2	12586.8	13037.8	14308.2	15544.7	15369.8	15299.3	14213.0	9150.1
45°	11887.1	11678.5	11902.5	12485.5	13393.8	14826.7	16655.5	16897.9	16796.7	15965.1	10506.3
47.5°	10797.9	10926.7	11052.5	11831.9	12961.1	14667.2	17336.7	18162.1	18349.3	17438.0	11396.2
50°	9150.1	9122.5	9383.3	10365.2	11736.8	13979.8	17204.8	18527.3	18867.9	17879.8	11583.4
52.5°	6655.5	6858.0	7140.3	8116.0	9742.3	12200.1	15501.8	17585.2	18039.4	17336.7	11460.6
55°	3875.4	3651.4	4286.6	5112.0	6646.2	9202.3	13105.3	15587.7	16428.4	16348.7	10840.8
57.5°	1552.6	1503.5	1721.4	2319.7	3467.3	5704.2	9530.6	12807.7	14154.7	14974.0	9527.5
60°	681.2	665.9	782.5	945.1	1417.6	2629.7	5213.3	7965.7	9371.0	10463.4	6557.3
62.5°	491.0	484.8	543.1	601.4	748.7	1144.5	2190.9	3209.6	4001.3	4832.8	2936.5
65°	395.8	411.2	451.1	481.7	552.3	635.2	773.2	892.9	1095.4	1135.3	647.4
67.5°	322.2	334.5	371.3	405.0	417.3	343.7	355.9	313.0	313.0	279.2	224.0
70°	236.3	239.3	282.3	322.2	257.7	138.1	242.4	242.4	217.9	208.7	190.2
72.5°	174.9	178.0	211.7	199.4	101.3	85.9	178.0	196.4	178.0	168.8	153.4
75°	128.9	131.9	110.5	46.0	43.0	55.2	104.3	135.0	128.9	125.8	116.6
77.5°	24.5	18.4	15.3	21.5	30.7	46.0	67.5	82.8	85.9	92.1	85.9
80°	3.1	3.1	9.2	18.4	33.8	49.1	70.6	79.8	82.8	85.9	79.8
82.5°	0.0	3.1	9.2	18.4	33.8	46.0	61.4	70.6	76.7	79.8	76.7
85°	0.0	3.1	6.1	15.3	27.6	33.8	30.7	21.5	18.4	21.5	15.3
87.5°	0.0	0.0	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1	1933.1
2.5°	1957.7	1945.4	1902.4	1856.4	1816.5	1834.9	1816.5	1801.2	1807.3	1801.2	1795.0
5°	2065.1	2009.8	1917.8	1877.9	1844.1	1841.1	1831.9	1828.8	1831.9	1831.9	1804.2
7.5°	2166.3	2077.3	1979.1	1936.2	1896.3	1899.4	1877.9	1877.9	1874.8	1859.5	1853.3
10°	2319.7	2200.1	2074.3	1997.6	1948.5	1939.3	1917.8	1896.3	1896.3	1896.3	1865.6
12.5°	2488.5	2338.2	2166.3	2077.3	2019.0	1973.0	1939.3	1933.1	1899.4	1893.2	1877.9
15°	2635.8	2445.5	2227.7	2105.0	2031.3	1969.9	1917.8	1884.0	1868.7	1859.5	1847.2
17.5°	2780.0	2537.6	2261.4	2105.0	2025.2	1954.6	1899.4	1868.7	1831.9	1838.0	1813.5
20°	2973.3	2635.8	2270.6	2065.1	1966.9	1899.4	1825.7	1810.4	1788.9	1770.5	1776.6
22.5°	3160.5	2706.4	2243.0	2016.0	1874.8	1795.0	1758.2	1739.8	1730.6	1715.3	1693.8
25°	3329.3	2783.1	2200.1	1927.0	1776.6	1718.3	1684.6	1681.5	1660.0	1660.0	1620.1
27.5°	3501.1	2810.7	2126.4	1822.7	1690.7	1657.0	1641.6	1635.5	1626.3	1604.8	1577.2
30°	3697.5	2819.9	2019.0	1715.3	1614.0	1577.2	1598.7	1614.0	1574.1	1534.2	1546.5
32.5°	3860.1	2798.4	1890.2	1614.0	1558.8	1540.4	1583.3	1598.7	1552.6	1509.7	1488.2
35°	4056.5	2746.3	1764.4	1534.2	1503.5	1540.4	1577.2	1577.2	1485.1	1433.0	1420.7
37.5°	4354.1	2688.0	1647.8	1466.7	1445.2	1521.9	1571.0	1537.3	1393.1	1328.6	1313.3
40°	4673.2	2651.1	1534.2	1399.2	1414.6	1491.3	1518.9	1414.6	1267.3	1227.4	1215.1
42.5°	5136.6	2577.5	1433.0	1340.9	1386.9	1448.3	1448.3	1261.1	1205.9	1184.4	1181.4
45°	5713.4	2525.3	1344.0	1291.8	1347.0	1362.4	1313.3	1181.4	1141.5	1135.3	1138.4
47.5°	5995.7	2424.1	1251.9	1233.5	1273.4	1276.5	1147.6	1116.9	1083.2	1074.0	1067.8
50°	5952.8	2243.0	1132.3	1156.8	1212.0	1181.4	1046.3	1052.5	1021.8	1018.7	1003.4
52.5°	5652.1	1957.7	1012.6	1070.9	1132.3	1043.3	963.5	957.4	957.4	917.5	902.1
55°	5010.8	1577.2	868.4	942.0	1015.7	877.6	856.1	850.0	834.6	797.8	788.6
57.5°	3967.5	1156.8	653.6	733.4	862.2	745.6	742.6	714.9	675.1	647.4	647.4
60°	2359.6	665.9	411.2	448.0	570.7	604.5	672.0	659.7	592.2	549.3	537.0
62.5°	1077.0	343.7	260.8	267.0	306.8	392.8	527.8	610.6	515.5	441.9	435.7
65°	362.1	254.7	214.8	205.6	211.7	236.3	316.0	432.7	411.2	340.6	328.3
67.5°	220.9	227.1	202.5	187.2	187.2	184.1	181.0	196.4	242.4	236.3	239.3
70°	190.2	208.7	187.2	168.8	162.6	153.4	128.9	107.4	92.1	107.4	113.5
72.5°	153.4	165.7	159.6	144.2	128.9	116.6	92.1	70.6	52.2	46.0	46.0
75°	113.5	122.7	128.9	110.5	98.2	82.8	67.5	46.0	27.6	18.4	18.4
77.5°	82.8	92.1	95.1	85.9	73.6	58.3	43.0	30.7	15.3	6.1	6.1
80°	70.6	82.8	92.1	85.9	76.7	55.2	39.9	21.5	12.3	3.1	3.1
82.5°	67.5	82.8	92.1	82.8	73.6	52.2	39.9	24.5	9.2	3.1	3.1
85°	15.3	21.5	27.6	33.8	39.9	39.9	30.7	18.4	9.2	3.1	3.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	3.1	3.1	0.0
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)