

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: P529086

Luminaire Tested: **GALN-SA4B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529086  
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-SA4B-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 16987 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

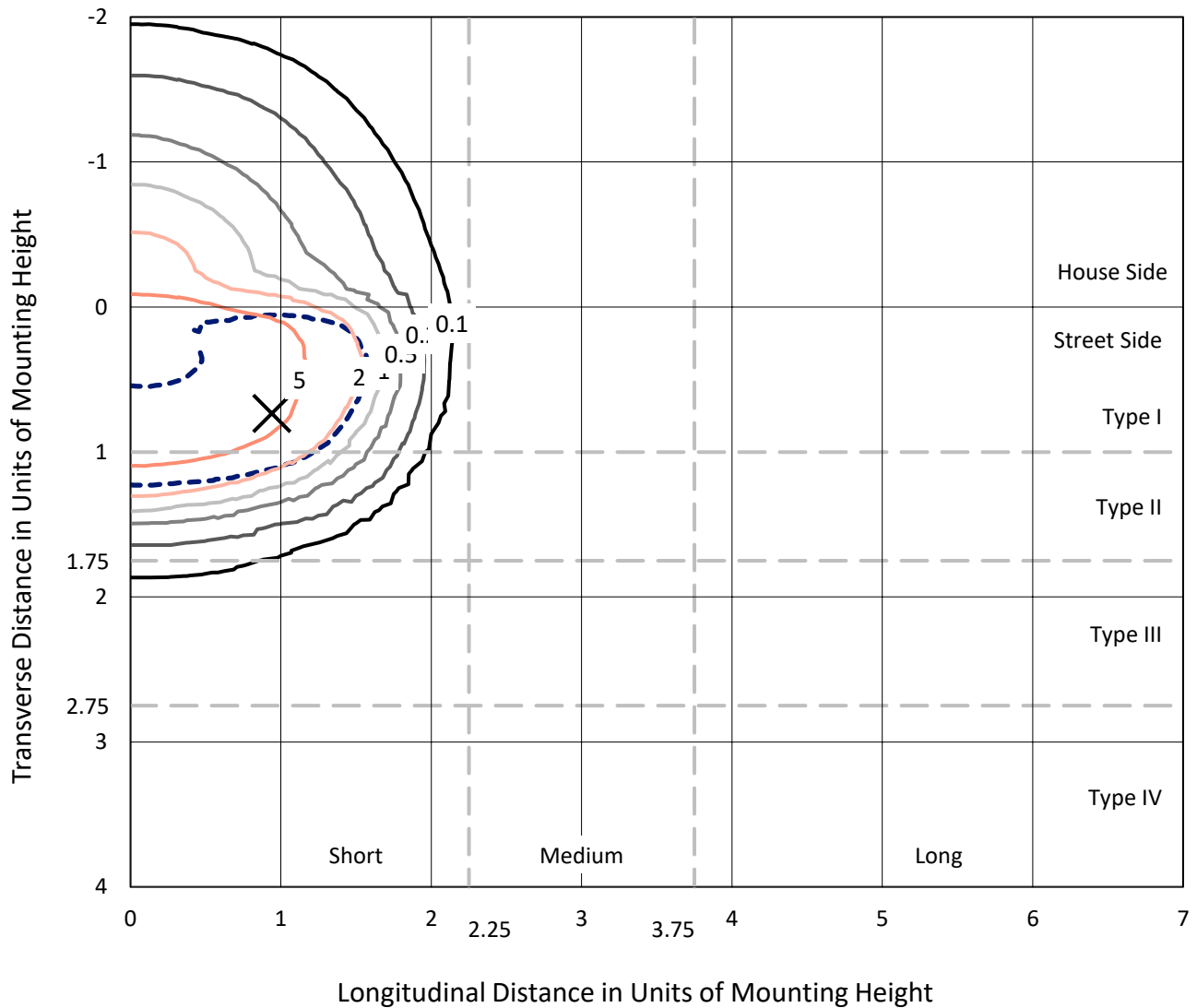
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

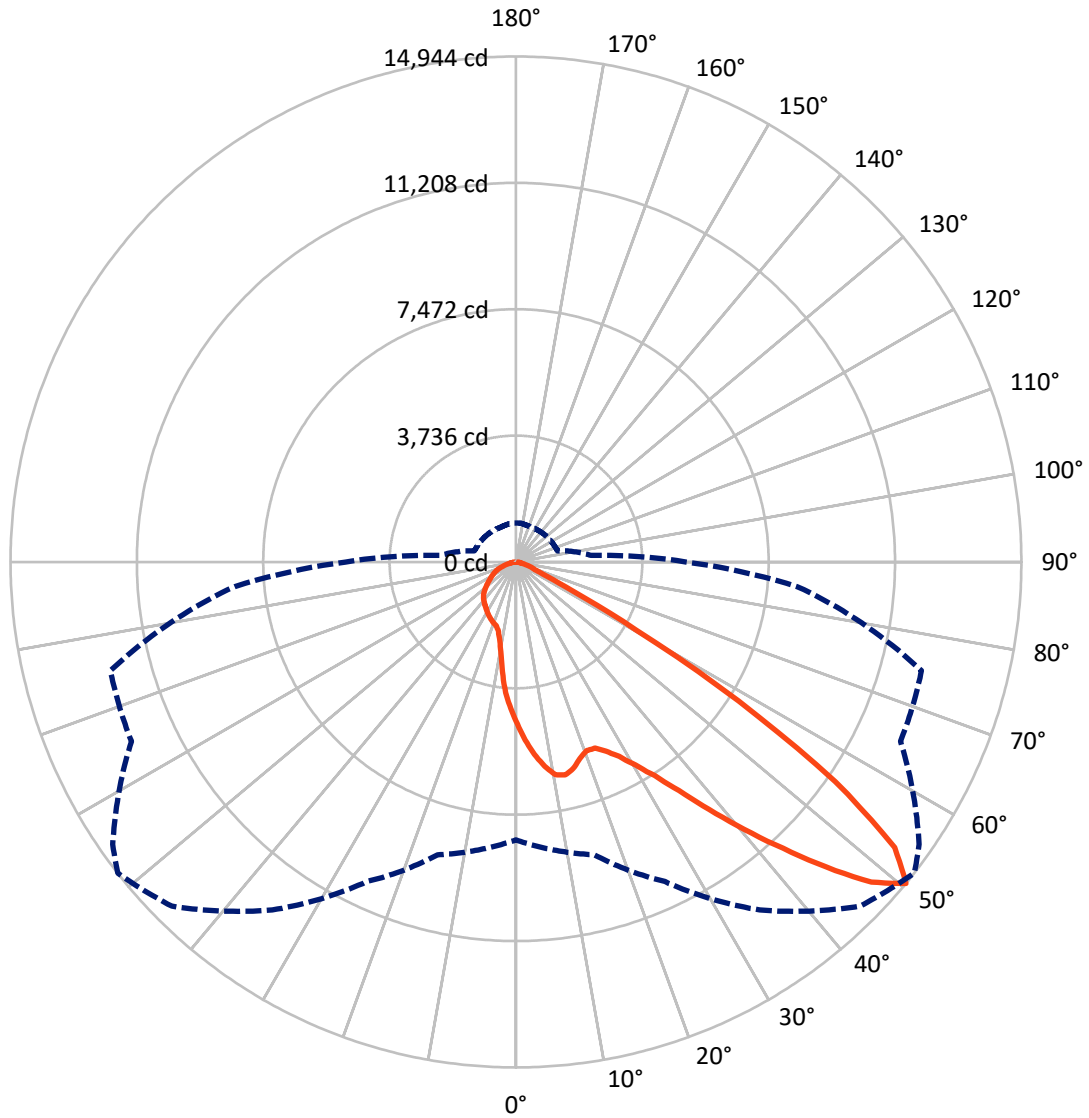
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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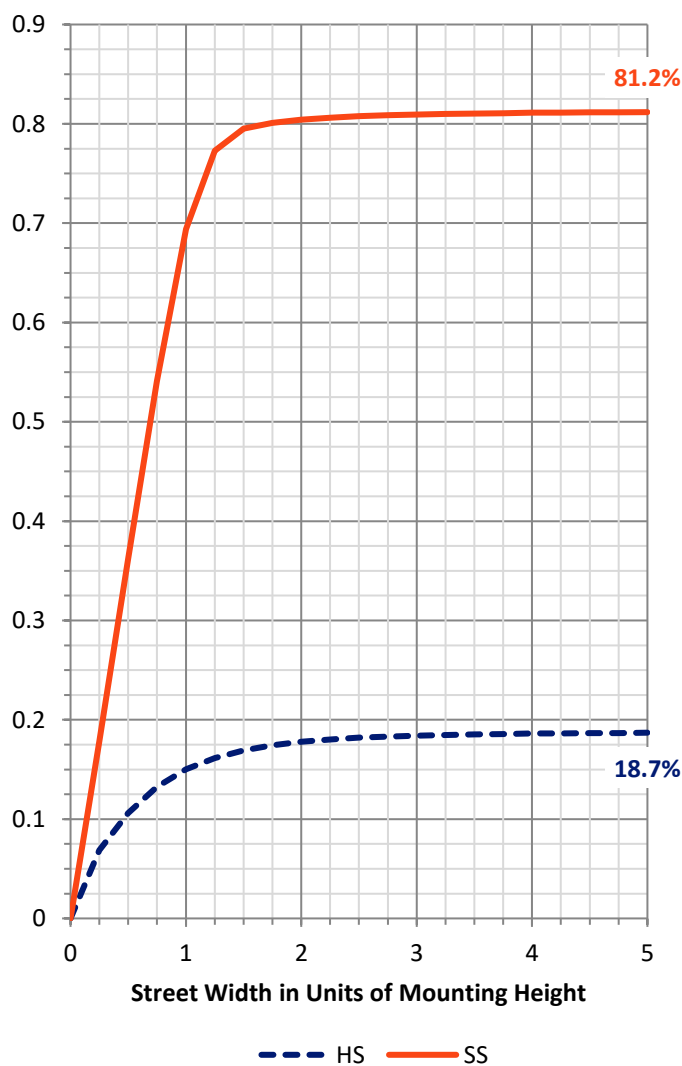
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3193.2	0.0	3193.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13793.8	0.0	13793.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16987.0	0.0	16987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.3	2.6
10°-20°	1182.9	7.0
20°-30°	1992.6	11.7
30°-40°	3343.7	19.7
40°-50°	5115.0	30.1
50°-60°	3729.2	22.0
60°-70°	829.9	4.9
70°-80°	299.4	1.8
80°-90°	53.0	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°	16987.0	100.0
0°-180°	16987.0	100.0

**Coefficient of Utilization**

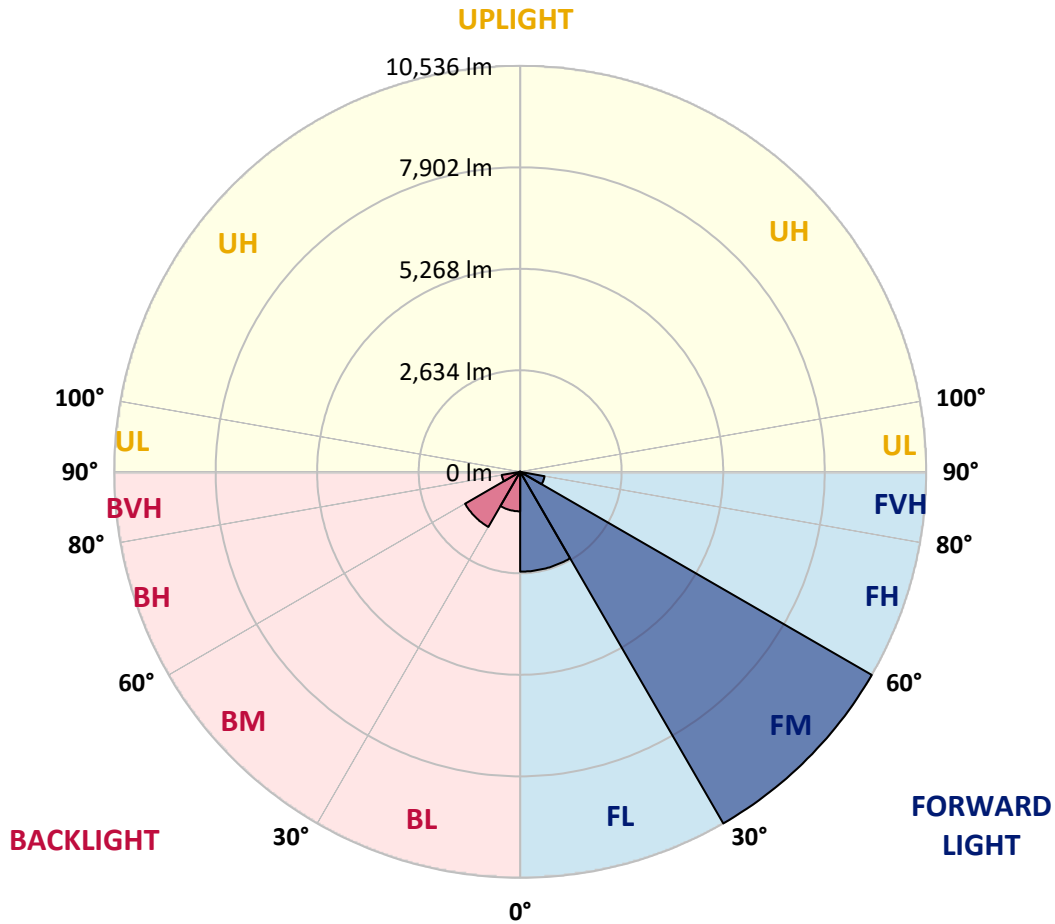


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.1	15.3			
FM (30°-60°)	10536.2	62.0			
FH (60°-80°)	642.8	3.8			G0/660
FVH (80°-90°)	23.7	0.1			G1/100
BL (0°-30°)	1025.7	6.0	B3/2500		
BM (30°-60°)	1651.7	9.7	B2/2500		
BH (60°-80°)	486.5	2.9	B1/500		G1/500
BVH (80°-90°)	29.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4
2.5°	5637.9	5529.4	5541.7	5463.9	5380.0	5355.4	5269.4	5187.6	5126.1	4995.1	4874.3
5°	6162.0	6129.3	6080.1	6018.7	5955.2	5799.7	5711.6	5609.3	5384.1	5181.4	4980.8
7.5°	6237.8	6231.6	6258.2	6258.2	6280.7	6221.4	6096.5	6024.9	5785.3	5455.7	5083.1
10°	5705.5	5723.9	5852.9	6020.8	6254.1	6415.9	6395.4	6377.0	6114.9	5664.5	5203.9
12.5°	5281.7	5240.8	5316.5	5459.8	5809.9	6200.9	6465.0	6467.0	6399.5	5998.2	5292.0
15°	5042.2	5070.9	5091.3	5158.9	5423.0	5875.4	6340.1	6477.3	6774.1	6233.7	5431.2
17.5°	5195.7	5099.5	5095.4	5111.8	5246.9	5586.8	6108.8	6344.2	6978.8	6536.6	5603.1
20°	5396.4	5394.3	5337.0	5316.5	5314.5	5617.5	5957.3	6276.7	7087.3	6929.7	5777.1
22.5°	5748.5	5748.5	5654.3	5609.3	5513.1	5760.8	5977.8	6194.8	7267.5	7199.9	5861.1
25°	6338.1	6241.9	6080.1	5969.6	5914.3	6002.3	6194.8	6389.2	7425.1	7486.5	6035.1
27.5°	6882.6	6731.1	6651.3	6460.9	6387.2	6336.0	6512.1	6708.6	7609.4	7932.8	6129.3
30°	7500.9	7474.3	7331.0	7085.3	6903.1	6808.9	6970.6	7165.1	7947.2	8389.3	6346.3
32.5°	8606.3	8364.8	8170.3	7869.4	7572.5	7371.9	7531.6	7660.5	8508.1	8866.3	6583.7
35°	9799.8	9722.1	9386.3	8843.8	8389.3	8209.2	8303.4	8399.6	9161.1	9595.1	6982.9
37.5°	10972.9	10866.4	10590.1	10133.5	9580.8	9214.4	9281.9	9394.5	9894.0	10577.8	7470.2
40°	11816.3	11685.3	11546.1	11478.5	10929.9	10428.3	10389.4	10418.1	10884.9	11499.0	8010.6
42.5°	11877.7	12039.5	12082.5	12354.7	12225.8	11814.3	11574.8	11580.9	11830.7	12410.0	8557.2
45°	11748.8	11599.3	11916.6	12659.8	13085.6	13278.0	12874.7	12823.5	12416.1	12938.2	8829.5
47.5°	10395.6	10436.5	10972.9	12148.0	13378.3	14238.1	14144.0	13974.0	12729.4	12919.8	8786.5
50°	8217.4	8465.1	8962.6	10426.3	12559.4	14389.6	14944.4	14551.4	12543.1	12412.1	8348.4
52.5°	5472.1	5574.5	5902.0	7791.6	10098.7	12862.4	14023.2	14113.3	12371.1	11746.7	7793.6
55°	2436.1	2428.0	2888.6	4069.8	6336.0	9787.6	11458.1	12006.7	11709.9	11069.1	7253.2
57.5°	1031.8	1066.6	1254.9	1758.5	3115.8	5906.1	7762.9	8244.0	9005.5	9089.5	5564.2
60°	698.1	702.2	753.4	880.3	1304.1	2773.9	4071.8	4649.1	5193.7	5156.8	2952.0
62.5°	548.6	563.0	601.9	653.1	773.8	1259.0	1822.0	2143.4	2178.2	1832.2	1119.8
65°	468.8	470.9	509.7	552.7	606.0	732.9	878.2	894.6	904.9	872.1	823.0
67.5°	386.9	391.0	421.7	470.9	520.0	560.9	601.9	622.3	669.4	761.6	749.3
70°	307.1	313.2	339.8	380.8	425.8	450.4	501.6	520.0	563.0	634.6	663.3
72.5°	233.4	235.4	257.9	286.6	327.5	352.1	395.1	415.6	444.2	505.7	532.3
75°	167.9	174.0	190.4	204.7	210.9	227.2	268.2	290.7	331.6	358.3	360.3
77.5°	88.0	92.1	96.2	96.2	116.7	147.4	174.0	186.3	215.0	235.4	225.2
80°	34.8	36.8	47.1	63.5	81.9	106.5	124.9	131.0	155.6	167.9	174.0
82.5°	20.5	22.5	30.7	45.0	59.4	75.7	90.1	96.2	112.6	126.9	131.0
85°	10.2	12.3	18.4	28.7	38.9	47.1	45.0	43.0	43.0	40.9	43.0
87.5°	4.1	4.1	6.1	6.1	6.1	8.2	10.2	10.2	10.2	12.3	12.3
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°	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4	4788.4
2.5°	4794.5	4712.6	4636.9	4497.7	4346.2	4303.2	4127.1	4063.7	4018.6	3965.4	3949.0
5°	4819.1	4710.6	4466.9	4186.5	3963.3	3676.7	3488.4	3285.7	3138.3	3101.5	3091.2
7.5°	4870.2	4683.9	4264.3	3840.5	3384.0	2995.0	2698.2	2538.5	2397.2	2389.1	2374.7
10°	4927.6	4604.1	4043.2	3377.8	2794.4	2434.1	2256.0	2186.4	2151.6	2143.4	2139.3
12.5°	4974.6	4587.7	3795.5	2927.5	2376.8	2159.8	2106.5	2100.4	2114.7	2118.8	2127.0
15°	4995.1	4522.2	3496.6	2524.2	2116.8	2036.9	2059.5	2084.0	2094.3	2120.9	2100.4
17.5°	5034.0	4438.3	3128.1	2204.8	1971.4	1985.8	2024.7	2053.3	2069.7	2088.1	2061.5
20°	5054.5	4362.5	2782.1	2014.4	1920.3	1946.9	2000.1	2022.6	2043.1	2051.3	2020.6
22.5°	5036.1	4207.0	2477.1	1860.9	1871.1	1905.9	1953.0	1977.6	1965.3	1932.5	1914.1
25°	4986.9	3987.9	2159.8	1762.6	1801.5	1862.9	1899.8	1881.4	1858.8	1840.4	1834.3
27.5°	4984.9	3719.7	1930.5	1672.5	1742.2	1826.1	1813.8	1797.4	1807.7	1793.3	1777.0
30°	4995.1	3459.7	1742.2	1621.4	1699.2	1740.1	1754.4	1738.1	1750.3	1723.7	1731.9
32.5°	4941.9	3205.9	1619.3	1562.0	1648.0	1645.9	1693.0	1705.3	1676.6	1621.4	1629.6
35°	4964.4	3001.2	1514.9	1535.4	1590.7	1590.7	1627.5	1613.2	1537.4	1504.7	1512.9
37.5°	5120.0	2800.5	1463.7	1498.5	1535.4	1551.8	1539.5	1478.1	1459.6	1459.6	1463.7
40°	5267.4	2628.6	1433.0	1490.3	1484.2	1494.4	1404.4	1410.5	1410.5	1412.6	1402.3
42.5°	5398.4	2511.9	1408.5	1441.2	1451.5	1398.2	1342.9	1336.8	1351.1	1349.1	1340.9
45°	5445.5	2415.7	1373.7	1385.9	1394.1	1306.1	1279.5	1267.2	1283.6	1289.7	1297.9
47.5°	5265.3	2335.8	1334.8	1310.2	1293.8	1236.5	1201.7	1179.2	1199.6	1234.4	1242.6
50°	5034.0	2231.4	1273.3	1226.3	1191.5	1166.9	1142.3	1119.8	1134.1	1158.7	1152.6
52.5°	4692.1	2067.7	1195.6	1146.4	1087.1	1093.2	1070.7	1058.4	1066.6	1066.6	1060.4
55°	4204.9	1699.2	1064.5	1029.7	980.6	997.0	1001.1	984.7	968.3	982.6	970.4
57.5°	2870.1	1199.6	949.9	949.9	900.8	923.3	921.2	882.3	843.4	847.5	839.3
60°	1660.3	956.0	876.2	868.0	816.8	835.2	839.3	812.7	753.4	757.5	749.3
62.5°	943.7	816.8	765.6	753.4	743.1	759.5	759.5	724.7	673.5	677.6	669.4
65°	802.5	757.5	683.8	681.7	677.6	681.7	665.3	628.5	583.4	565.0	567.1
67.5°	728.8	700.1	628.5	610.1	597.8	595.7	565.0	530.2	509.7	493.4	491.3
70°	638.7	616.2	563.0	538.4	526.1	497.5	466.8	444.2	415.6	407.4	415.6
72.5°	505.7	503.6	483.1	456.5	429.9	407.4	380.8	350.1	323.5	317.3	303.0
75°	350.1	354.2	358.3	354.2	331.6	303.0	272.3	247.7	215.0	196.5	192.4
77.5°	229.3	235.4	241.6	233.4	219.0	192.4	172.0	141.3	116.7	102.4	100.3
80°	167.9	176.1	180.2	174.0	157.6	137.2	114.6	90.1	71.7	59.4	59.4
82.5°	129.0	137.2	141.3	131.0	114.6	98.3	81.9	63.5	49.1	38.9	36.8
85°	45.0	43.0	51.2	53.2	63.5	59.4	49.1	36.8	28.7	20.5	18.4
87.5°	12.3	12.3	14.3	14.3	12.3	10.2	10.2	10.2	8.2	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

(END OF REPORT)