

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: P949852

Luminaire Tested: **GALN-SB4C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28314 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

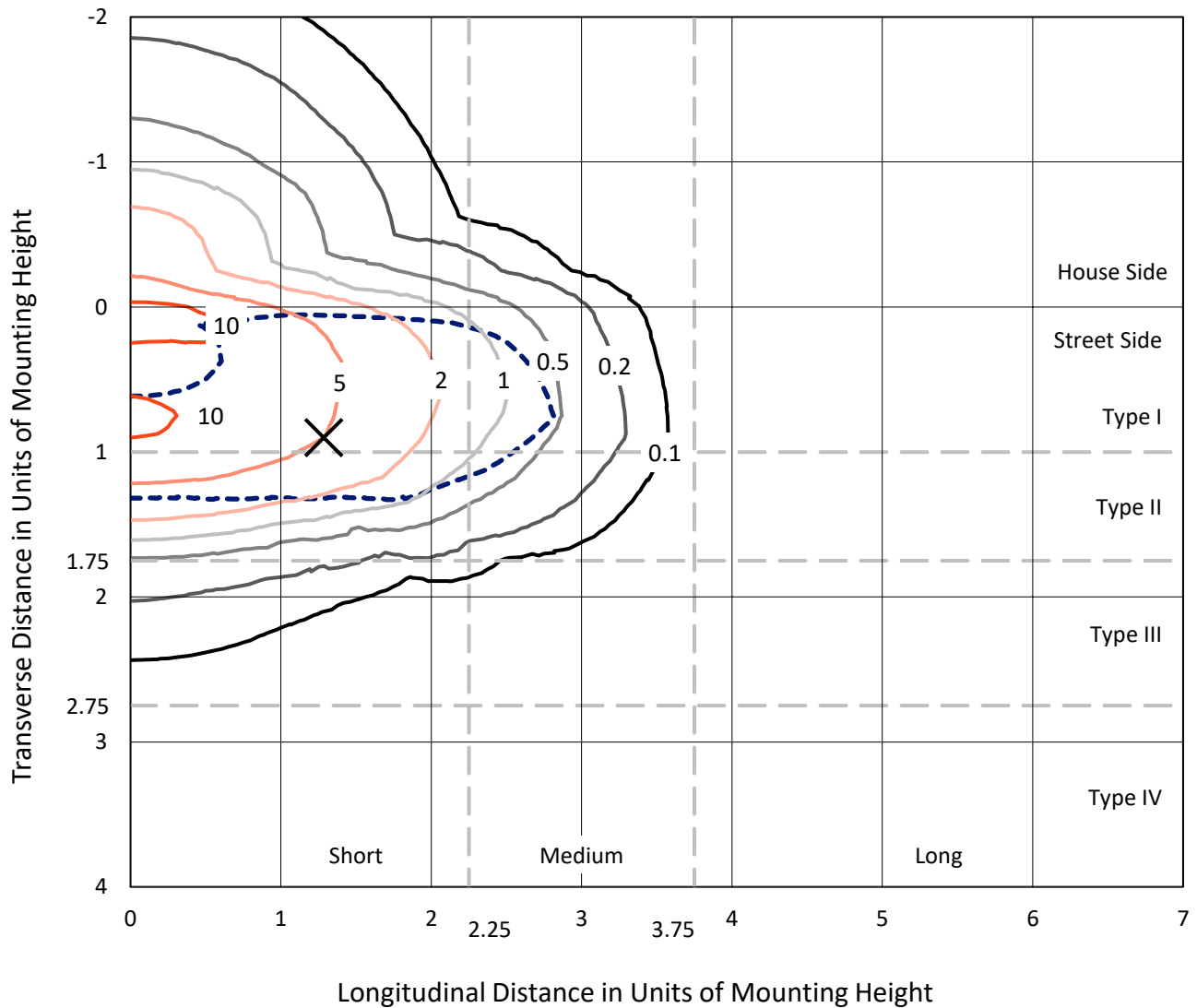
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

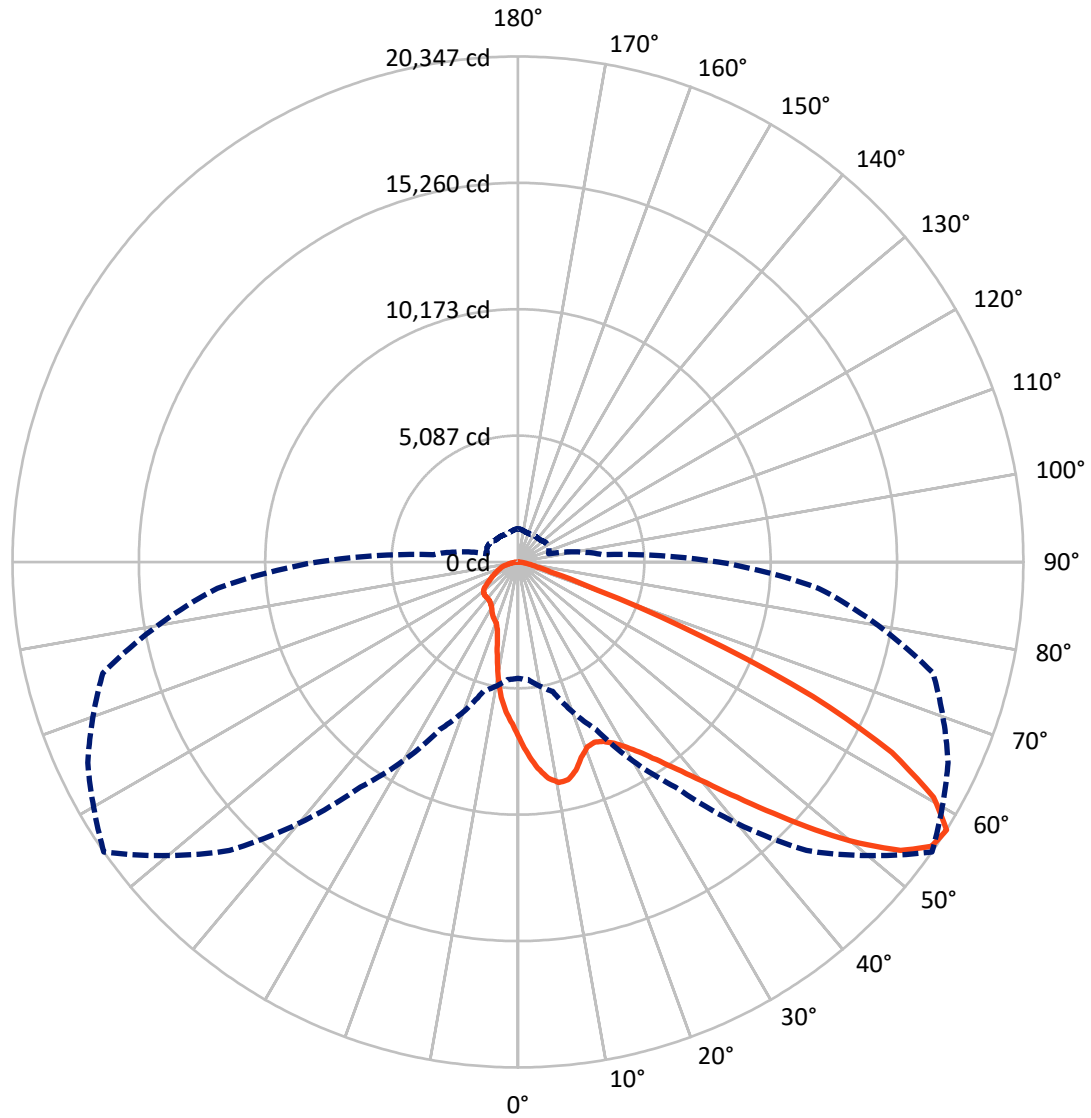
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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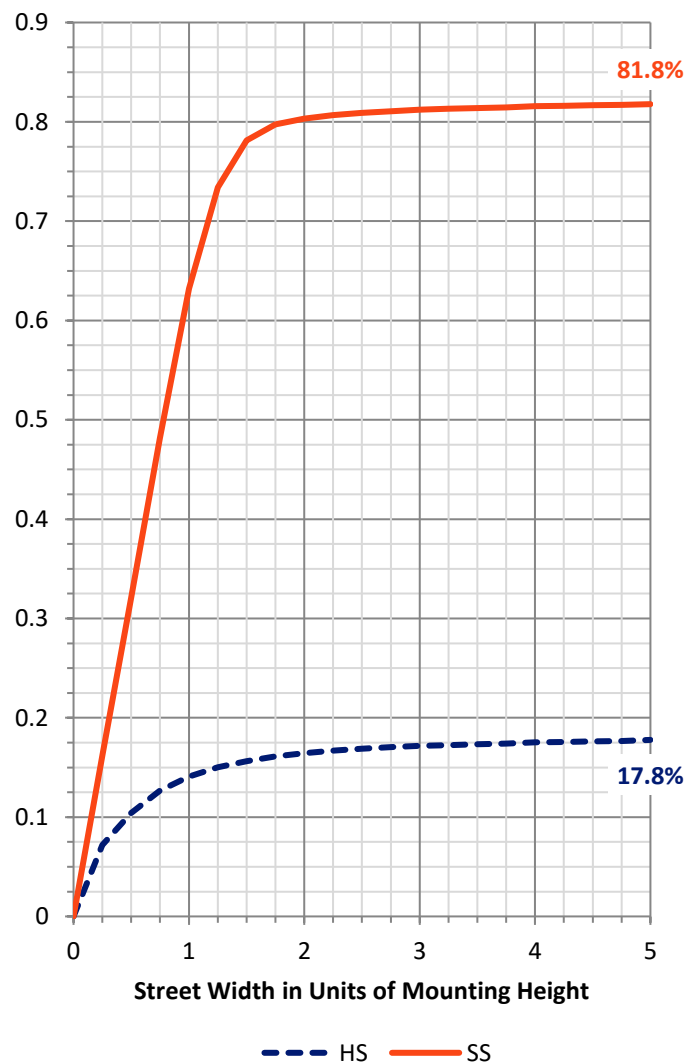
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5123.3	0.0	5123.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23190.7	0.0	23190.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	28314.0	0.0	28314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.3	2.3
10°-20°	1661.7	5.9
20°-30°	2651.5	9.4
30°-40°	4198.0	14.8
40°-50°	6425.5	22.7
50°-60°	6882.4	24.3
60°-70°	4329.7	15.3
70°-80°	1280.4	4.5
80°-90°	226.4	0.8
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°	28314.0	100.0
0°-180°	28314.0	100.0

Coefficient of Utilization



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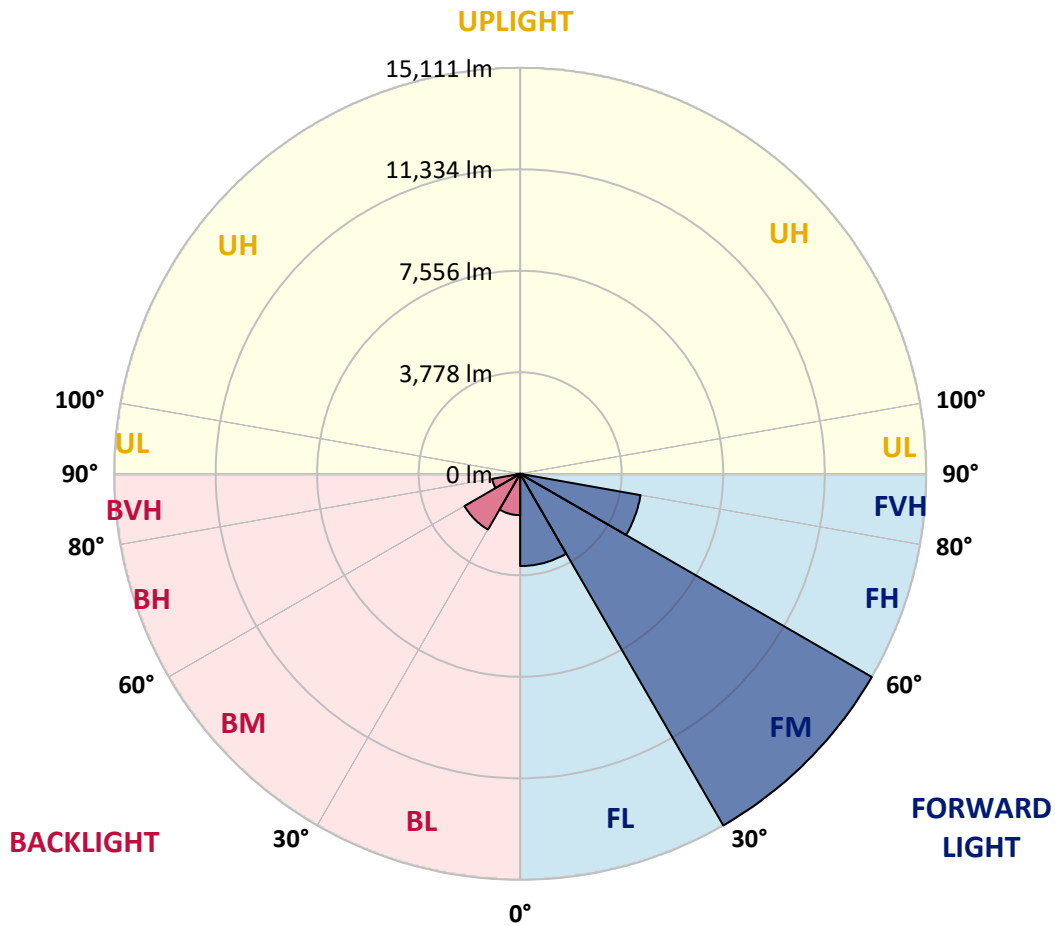
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.7	12.1			
FM (30°-60°)	15111.4	53.4			
FH (60°-80°)	4552.0	16.1			G2/5000
FVH (80°-90°)	95.7	0.3			G1/100
BL (0°-30°)	1539.9	5.4	B3/2500		
BM (30°-60°)	2394.6	8.5	B2/2500		
BH (60°-80°)	1058.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	130.7	0.5			G2/225
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°	85°	90°
0°	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6
2.5°	8139.7	8133.8	8166.0	8056.2	7981.6	7880.6	7747.4	7577.6	7394.6	7201.4	7118.0
5°	8873.0	8821.7	8855.4	8773.4	8691.5	8539.2	8341.6	8065.0	7726.9	7341.9	7137.0
7.5°	8757.3	8722.2	8808.6	8881.8	8943.2	8924.2	8779.3	8489.5	8053.3	7494.2	7197.0
10°	7825.0	7785.4	7906.9	8160.1	8531.9	8855.4	9031.0	8851.0	8387.0	7661.0	7255.6
12.5°	7002.4	6983.3	7063.8	7268.8	7681.5	8302.1	8998.8	9167.2	8733.9	7858.6	7334.6
15°	6651.1	6627.6	6678.9	6782.8	7046.3	7624.4	8706.1	9383.8	9075.0	8087.0	7460.5
17.5°	6573.5	6547.1	6569.1	6623.3	6793.0	7233.6	8264.1	9490.7	9430.6	8341.6	7565.9
20°	6716.9	6695.0	6697.9	6695.0	6813.5	7163.4	7956.7	9449.7	9740.9	8575.8	7668.3
22.5°	7063.8	7027.2	7028.7	6951.1	7015.5	7286.3	7876.2	9339.9	10017.6	8780.8	7745.9
25°	7628.8	7563.0	7576.1	7378.5	7361.0	7561.5	8002.1	9255.0	10292.8	8944.7	7760.6
27.5°	8401.7	8327.0	8287.5	7993.3	7852.8	7952.3	8258.2	9284.3	10553.3	9086.7	7724.0
30°	9367.7	9277.0	9196.4	8779.3	8524.6	8488.0	8656.3	9477.5	10860.7	9236.0	7661.0
32.5°	10551.8	10446.4	10300.1	9746.8	9388.2	9196.4	9171.6	9821.4	11220.7	9426.2	7628.8
35°	11961.4	11823.8	11615.9	10900.2	10446.4	10054.2	9850.7	10317.6	11714.0	9713.1	7665.4
37.5°	13413.4	13258.2	13067.9	12216.1	11658.4	11080.2	10679.2	10990.9	12371.2	10102.5	7762.0
40°	14752.7	14578.5	14401.4	13643.2	13044.5	12347.8	11693.5	11842.8	13174.8	10567.9	7926.0
42.5°	15543.1	15414.3	15346.9	14937.1	14474.6	13767.6	12955.2	12852.8	14077.9	11103.7	8113.3
45°	15507.9	15455.2	15663.1	15832.9	15723.1	15330.8	14433.6	13969.6	14983.9	11567.6	8286.0
47.5°	14679.5	14714.6	15178.6	16132.9	16553.0	16757.9	16116.8	15065.9	15771.4	11914.5	8363.6
50°	12425.4	12454.7	13529.0	15587.0	16766.7	17921.6	17786.9	16135.9	16381.8	12126.8	8346.0
52.5°	10641.1	10660.2	11121.2	13968.1	16061.2	18507.1	19291.6	17144.4	16828.2	12185.3	8248.0
55°	8015.2	8081.1	8597.8	10958.7	14225.7	18043.1	20207.9	18183.6	17110.7	12191.2	8145.5
57.5°	4682.4	4754.1	5392.3	7438.5	11056.8	16425.7	20346.9	19105.7	17302.4	12144.3	8084.0
60°	2293.6	2324.4	2602.5	3909.6	6817.9	13309.5	19228.7	19552.1	17409.3	12119.5	8081.1
62.5°	1545.7	1541.3	1553.0	1929.2	3359.2	8551.0	16898.5	18770.5	17352.2	12024.3	8051.8
65°	1329.0	1312.9	1269.0	1353.9	1740.3	3911.0	13056.2	16437.4	16917.5	11785.7	7851.3
67.5°	1149.0	1150.5	1151.9	1125.6	1242.7	1804.7	7978.6	12947.9	15357.2	10655.8	7078.5
70°	951.4	964.6	970.4	970.4	1012.9	1184.1	3406.0	8874.4	12113.6	8354.8	5701.1
72.5°	866.5	838.7	841.6	827.0	827.0	901.6	1371.5	5030.7	7631.7	4700.0	3479.2
75°	707.0	724.5	727.5	717.2	683.5	687.9	813.8	2110.7	3265.5	1949.7	1719.9
77.5°	610.4	610.4	616.2	608.9	582.6	515.2	543.0	818.2	1111.0	799.2	859.2
80°	490.3	488.9	513.8	528.4	487.4	380.6	346.9	452.3	493.3	351.3	446.4
82.5°	238.6	253.2	352.8	402.5	370.3	275.2	212.2	281.0	263.5	155.2	200.5
85°	139.1	131.7	158.1	223.9	212.2	152.2	102.5	146.4	137.6	79.0	80.5
87.5°	43.9	41.0	32.2	76.1	61.5	42.4	27.8	42.4	38.1	17.6	17.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6	7094.6
2.5°	7014.1	6841.3	6670.1	6513.5	6418.3	6356.9	6295.4	6226.6	6200.2	6160.7
5°	6943.8	6610.1	6313.0	6056.8	5824.1	5641.1	5456.7	5307.4	5240.1	5285.4
7.5°	6902.8	6419.8	5961.7	5491.8	5039.5	4678.0	4363.3	4142.3	4042.7	4067.6
10°	6866.2	6204.6	5506.5	4764.4	4114.5	3666.6	3344.6	3176.2	3113.3	3126.5
12.5°	6832.6	5963.1	4957.6	3981.3	3290.4	2994.7	2902.5	2904.0	2915.7	2924.5
15°	6826.7	5671.8	4344.3	3296.3	2845.4	2826.4	2925.9	2988.9	3022.5	3032.8
17.5°	6817.9	5323.5	3719.3	2829.3	2737.1	2865.9	2958.1	2999.1	3025.5	3026.9
20°	6782.8	4881.5	3142.6	2606.9	2713.7	2824.9	2882.0	2914.2	2936.2	2943.5
22.5°	6674.5	4389.6	2693.2	2507.3	2620.0	2709.3	2776.6	2813.2	2826.4	2835.2
25°	6479.8	3839.3	2382.9	2412.2	2489.8	2602.5	2656.6	2663.9	2659.5	2672.7
27.5°	6225.1	3249.4	2189.7	2283.4	2382.9	2479.5	2508.8	2504.4	2495.6	2510.3
30°	5917.8	2719.6	2066.7	2138.5	2274.6	2362.4	2388.8	2378.5	2361.0	2377.1
32.5°	5592.8	2286.3	1965.8	2037.5	2185.3	2271.7	2298.0	2287.8	2274.6	2287.8
35°	5289.8	1983.3	1872.1	1970.1	2115.1	2199.9	2233.6	2235.1	2235.1	2251.2
37.5°	5011.7	1806.2	1794.5	1927.7	2066.7	2142.9	2191.2	2194.1	2131.2	2135.5
40°	4754.1	1731.6	1759.4	1899.9	2019.9	2093.1	2096.0	1932.1	1816.5	1813.5
42.5°	4543.3	1716.9	1769.6	1897.0	1986.2	1989.2	1782.8	1655.4	1623.2	1624.7
45°	4345.7	1712.5	1793.0	1897.0	1936.5	1718.4	1579.3	1545.7	1548.6	1560.3
47.5°	4124.7	1695.0	1797.4	1870.6	1793.0	1528.1	1487.1	1472.5	1466.6	1469.6
50°	3883.2	1632.0	1741.8	1817.9	1547.1	1446.1	1394.9	1390.5	1397.8	1402.2
52.5°	3628.5	1529.6	1646.7	1722.8	1434.4	1374.4	1317.3	1327.6	1359.8	1370.0
55°	3461.7	1409.5	1520.8	1532.5	1355.4	1307.1	1258.8	1282.2	1342.2	1361.2
57.5°	3417.7	1282.2	1377.3	1364.2	1254.4	1248.5	1219.3	1239.8	1315.9	1343.7
60°	3404.6	1168.0	1236.8	1226.6	1156.3	1184.1	1176.8	1187.1	1213.4	1222.2
62.5°	3302.1	1077.3	1111.0	1096.3	1068.5	1116.8	1134.4	1112.4	1132.9	1143.2
65°	3041.6	1004.1	988.0	977.8	989.5	1033.4	1068.5	1024.6	1043.6	1072.9
67.5°	2611.2	904.6	860.7	872.4	909.0	932.4	977.8	928.0	944.1	993.9
70°	2112.1	778.7	739.2	772.8	808.0	856.3	863.6	829.9	868.0	923.6
72.5°	1494.4	651.3	623.5	692.3	704.0	767.0	750.9	734.8	787.5	806.5
75°	1036.3	525.5	509.4	562.1	604.5	658.7	647.0	666.0	777.2	786.0
77.5°	655.7	408.4	398.1	431.8	490.3	550.4	569.4	786.0	1327.6	1380.3
80°	380.6	304.5	292.7	319.1	370.3	425.9	548.9	964.6	875.3	865.0
82.5°	212.2	209.3	194.7	202.0	247.4	307.4	775.8	679.2	551.8	569.4
85°	99.5	123.0	105.4	101.0	139.1	360.1	518.2	387.9	257.6	251.8
87.5°	26.3	23.4	23.4	26.3	58.5	310.3	206.4	165.4	98.1	95.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)