

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: P952005

Luminaire Tested: **GALN-SB6A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25699 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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



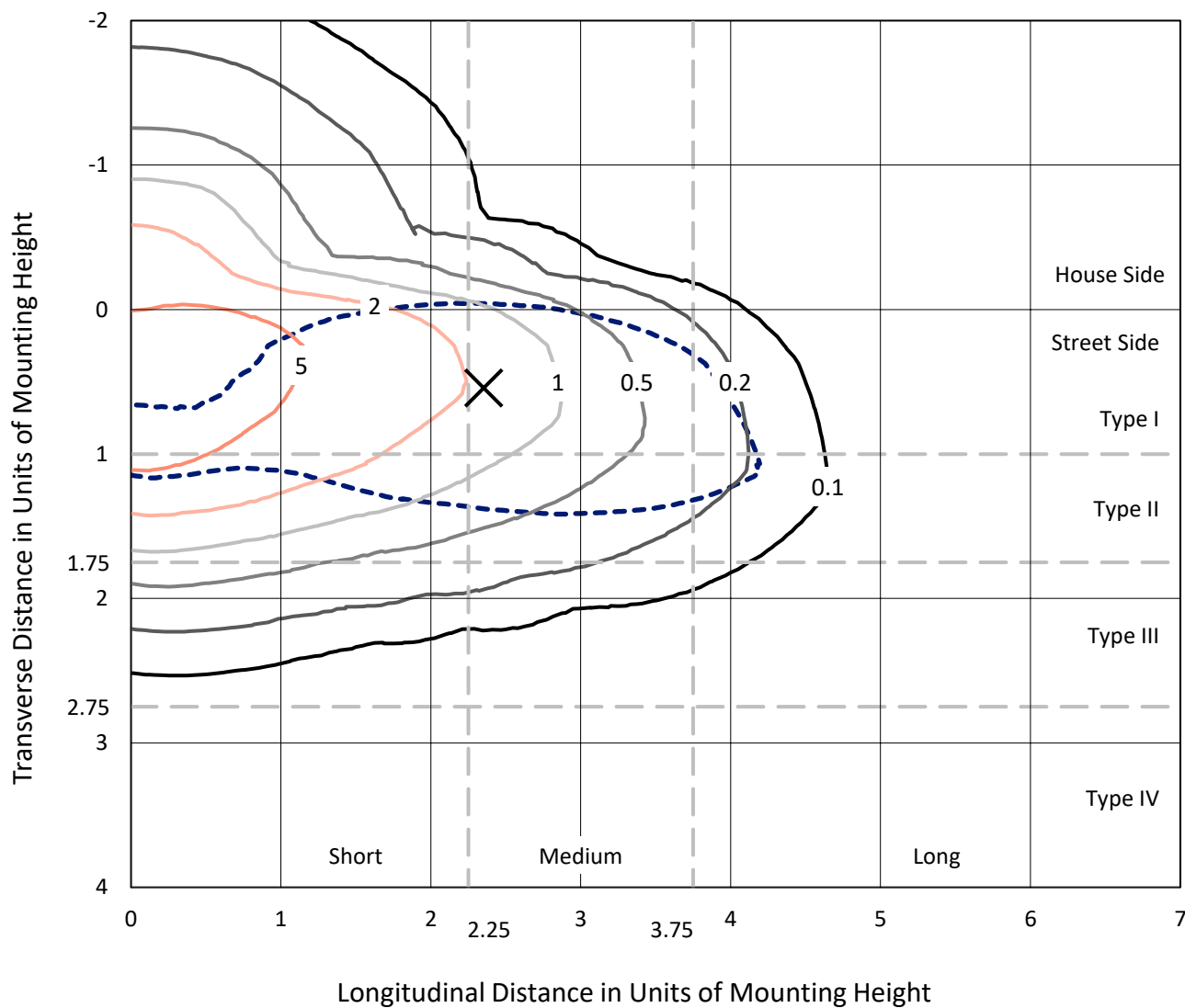
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

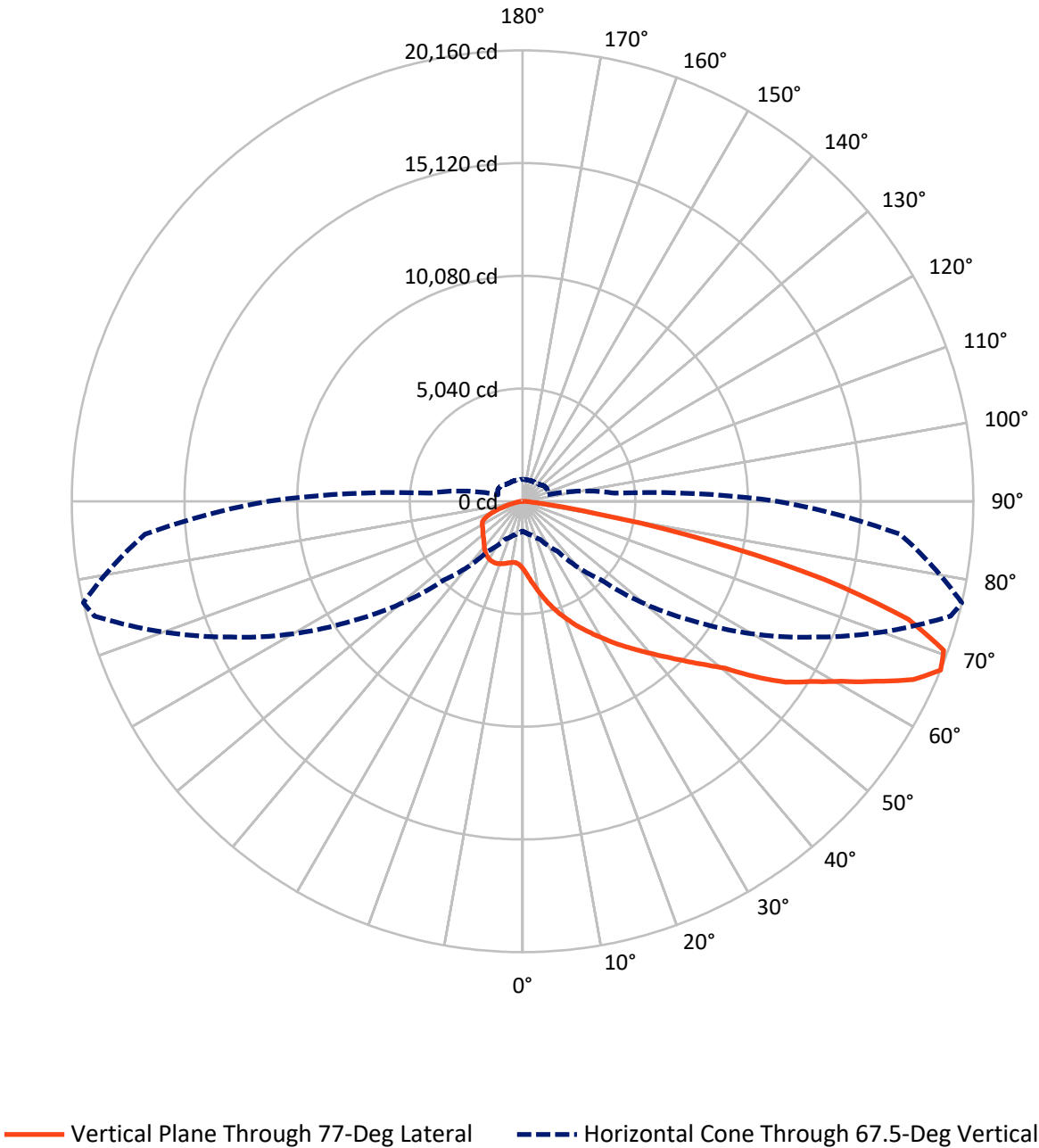
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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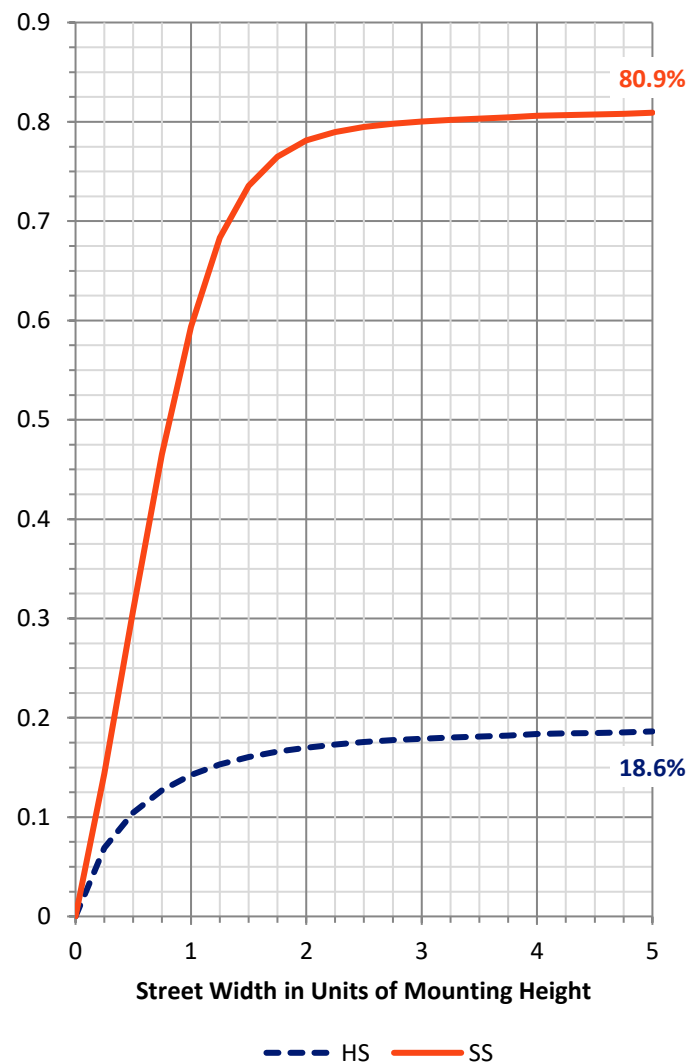
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4861.2	0.0	4861.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20837.8	0.0	20837.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	25699.0	0.0	25699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.3
10°-20°	1161.1	4.5
20°-30°	2192.3	8.5
30°-40°	3531.8	13.7
40°-50°	4830.8	18.8
50°-60°	5449.2	21.2
60°-70°	5086.2	19.8
70°-80°	2788.1	10.8
80°-90°	336.3	1.3
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°	25699.0	100.0
0°-180°	25699.0	100.0

Coefficient of Utilization



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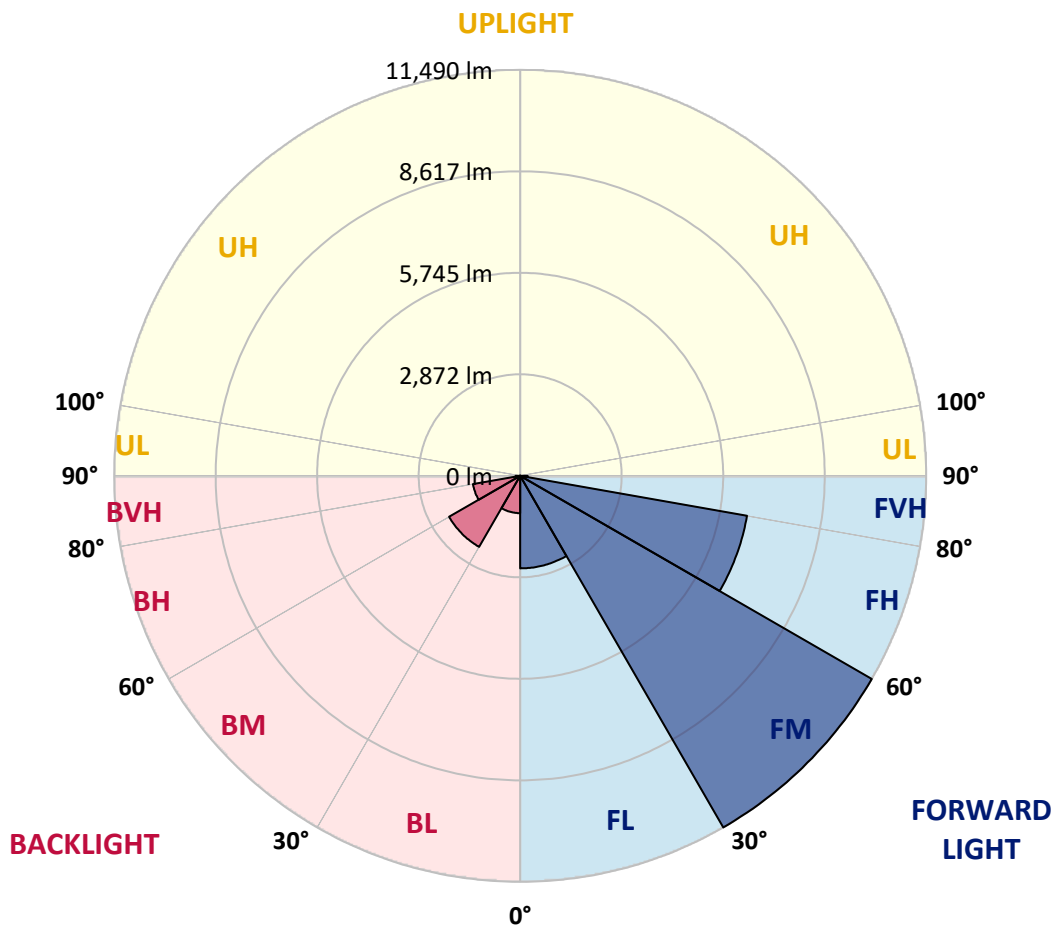
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2619.7	10.2			
FM	(30°-60°)	11489.7	44.7			
FH	(60°-80°)	6518.0	25.4			G3/7500
FVH	(80°-90°)	210.3	0.8			G2/225
BL	(0°-30°)	1056.9	4.1	B3/2500		
BM	(30°-60°)	2322.1	9.0	B2/2500		
BH	(60°-80°)	1356.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	126.0	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3
2.5°	3775.4	3801.9	3768.8	3768.8	3657.4	3599.0	3487.5	3402.6	3250.1	3223.6	3122.7
5°	4462.6	4495.7	4449.3	4429.4	4298.1	4177.4	3990.3	3805.9	3534.0	3506.1	3268.7
7.5°	4994.5	5037.0	4995.9	4974.6	4857.9	4722.6	4503.7	4246.3	3863.0	3808.6	3465.0
10°	5428.3	5435.0	5421.7	5429.6	5338.1	5226.7	5002.5	4702.7	4223.8	4149.5	3702.5
12.5°	5673.7	5704.2	5730.8	5778.5	5762.6	5693.6	5492.0	5133.8	4605.8	4510.3	3961.1
15°	5789.1	5842.2	5901.9	6012.0	6100.9	6118.1	5964.3	5596.8	4994.5	4879.1	4222.5
17.5°	5830.3	5880.7	5974.9	6134.1	6325.1	6453.8	6384.8	6046.5	5379.2	5246.6	4497.1
20°	6038.5	6053.1	6110.2	6261.4	6468.3	6681.9	6733.7	6479.0	5760.0	5610.1	4781.0
22.5°	6484.3	6455.1	6471.0	6540.0	6688.6	6895.5	7013.6	6861.0	6151.3	5978.8	5067.5
25°	7220.5	7135.6	7050.7	6971.1	7046.7	7163.5	7297.5	7243.1	6561.2	6342.3	5356.7
27.5°	8150.4	8047.0	7859.9	7598.6	7507.1	7548.2	7607.9	7597.3	6940.6	6719.1	5655.2
30°	9065.8	8945.1	8722.2	8344.1	8102.7	7993.9	7948.8	7918.3	7353.2	7117.0	5956.3
32.5°	9796.7	9701.2	9482.3	9059.1	8708.9	8523.2	8373.3	8264.5	7784.3	7548.2	6274.7
35°	10436.1	10347.2	10096.5	9634.9	9254.1	9056.5	8860.2	8628.0	8232.7	7993.9	6616.9
37.5°	11019.8	10930.9	10587.3	10107.1	9723.7	9587.1	9412.0	9018.0	8682.4	8456.9	6979.1
40°	11388.6	11368.7	11047.7	10503.8	10105.8	10038.1	9979.8	9470.4	9181.2	8971.6	7377.0
42.5°	11482.8	11526.6	11271.9	10824.8	10445.4	10391.0	10527.7	9982.4	9741.0	9540.7	7828.1
45°	11255.9	11382.0	11214.8	10911.0	10686.8	10657.7	11013.2	10542.2	10360.5	10177.4	8372.0
47.5°	10681.5	10895.1	10826.1	10783.7	10751.8	10877.9	11440.3	11136.5	11062.3	10903.1	8992.8
50°	9522.1	9926.7	10047.4	10315.4	10623.2	11049.0	11829.0	11785.2	11882.1	11721.6	9749.0
52.5°	7517.7	8074.8	8775.3	9446.5	10227.8	10991.9	12256.2	12716.5	13125.1	13037.5	10950.8
55°	6205.7	6456.4	6995.0	8226.1	9461.1	10751.8	12448.5	13468.7	14358.8	14280.5	11862.2
57.5°	5197.5	5421.7	5753.3	6781.4	8301.7	10206.6	12567.9	13927.6	15203.8	15195.8	12761.6
60°	4116.3	4353.8	4693.4	5421.7	6947.2	9264.8	12541.4	14450.3	16282.3	16348.6	13858.7
62.5°	2895.9	3157.2	3534.0	4213.2	5563.6	8044.3	12000.1	14828.4	17551.8	17732.2	15178.6
65°	1903.6	2076.1	2360.0	2946.3	4145.5	6475.0	10966.7	14877.5	18910.2	19215.4	16417.6
67.5°	1334.5	1400.9	1568.0	1886.4	2732.7	4965.3	9320.5	14369.4	19816.3	20159.9	16954.9
70°	1041.4	1074.5	1159.4	1286.8	1716.6	3339.0	7142.2	13048.1	19622.6	19980.8	16393.7
72.5°	899.4	931.3	963.1	979.0	1151.5	2061.5	4838.0	10909.7	17798.6	18041.3	14254.0
75°	815.8	823.8	850.3	845.0	878.2	1337.2	2792.4	7948.8	14043.1	13959.5	10522.3
77.5°	685.8	696.4	740.2	733.6	780.0	914.0	1449.9	5129.8	9104.2	8536.5	5856.8
80°	581.0	586.3	634.1	626.1	677.9	662.0	740.2	2614.7	3861.6	3271.3	1688.7
82.5°	201.6	249.4	484.2	498.8	517.4	400.6	427.2	1066.6	1179.3	903.4	354.2
85°	98.2	104.8	246.7	350.2	348.9	201.6	208.3	380.7	371.4	291.8	118.1
87.5°	15.9	19.9	29.2	136.6	108.8	53.1	71.6	74.3	76.9	66.3	26.5
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°	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3	3015.3
2.5°	3048.5	2982.1	2842.8	2714.2	2613.3	2516.5	2462.1	2415.7	2389.2	2383.8	2383.8
5°	3130.7	2994.1	2740.7	2527.1	2387.8	2284.4	2230.0	2195.5	2178.2	2167.6	2166.3
7.5°	3248.8	3048.5	2687.6	2444.9	2298.9	2224.7	2196.8	2191.5	2190.2	2191.5	2195.5
10°	3411.9	3137.3	2682.3	2425.0	2302.9	2261.8	2260.5	2261.8	2267.1	2268.4	2269.8
12.5°	3588.4	3228.9	2703.5	2442.2	2353.3	2330.8	2326.8	2325.5	2329.5	2332.1	2333.4
15°	3780.7	3349.6	2739.4	2479.4	2409.0	2385.2	2381.2	2373.2	2371.9	2370.6	2369.3
17.5°	3978.4	3469.0	2779.2	2519.2	2444.9	2411.7	2397.1	2378.5	2363.9	2360.0	2363.9
20°	4178.7	3587.0	2807.0	2539.1	2447.5	2401.1	2371.9	2340.1	2314.9	2300.3	2305.6
22.5°	4392.3	3710.4	2824.3	2533.7	2423.6	2360.0	2306.9	2269.8	2231.3	2206.1	2207.4
25°	4600.5	3817.9	2822.9	2505.9	2377.2	2296.3	2228.6	2180.9	2127.8	2101.3	2101.3
27.5°	4800.9	3914.7	2789.8	2456.8	2310.9	2220.7	2139.8	2082.7	2031.0	2005.8	2004.4
30°	5007.8	3995.6	2738.0	2385.2	2232.6	2133.1	2044.2	1995.2	1948.7	1924.9	1923.5
32.5°	5213.4	4069.9	2665.1	2296.3	2142.4	2046.9	1959.3	1914.2	1886.4	1886.4	1887.7
35°	5431.0	4121.6	2568.2	2192.8	2046.9	1955.4	1886.4	1859.8	1857.2	1841.3	1837.3
37.5°	5660.5	4154.8	2450.2	2086.7	1952.7	1866.5	1845.3	1813.4	1786.9	1752.4	1747.1
40°	5901.9	4188.0	2308.2	1976.6	1853.2	1805.5	1796.2	1753.7	1678.1	1593.2	1581.3
42.5°	6195.1	4210.5	2161.0	1866.5	1748.4	1732.5	1745.8	1672.8	1552.1	1488.4	1489.7
45°	6534.7	4247.7	2025.7	1757.7	1641.0	1641.0	1696.7	1601.2	1501.7	1461.9	1468.5
47.5°	6975.1	4333.9	1899.6	1638.3	1541.5	1568.0	1587.9	1514.9	1459.2	1410.1	1408.8
50°	7611.9	4540.8	1769.6	1517.6	1465.9	1518.9	1491.1	1448.6	1383.6	1343.8	1339.8
52.5°	8402.5	4662.9	1654.2	1408.8	1400.9	1453.9	1414.1	1374.3	1325.2	1272.2	1261.6
55°	8941.1	4685.4	1557.4	1329.2	1357.1	1351.8	1337.2	1301.4	1274.8	1204.5	1205.9
57.5°	9543.3	4730.5	1477.8	1281.5	1329.2	1270.9	1265.5	1235.0	1200.5	1152.8	1136.9
60°	10263.7	4800.9	1408.8	1262.9	1305.3	1217.8	1191.3	1179.3	1144.8	1121.0	1127.6
62.5°	11049.0	4864.5	1338.5	1265.5	1277.5	1166.1	1126.3	1122.3	1101.1	1093.1	1093.1
65°	11584.9	4690.7	1251.0	1262.9	1233.7	1113.0	1062.6	1061.3	1044.0	1041.4	1040.0
67.5°	11397.9	4140.2	1132.9	1225.7	1188.6	1059.9	1004.2	998.9	976.4	977.7	977.7
70°	10461.3	3354.9	969.7	1134.2	1132.9	1012.2	943.2	925.9	895.4	900.7	906.0
72.5°	8704.9	2486.0	750.8	981.7	1044.0	968.4	872.9	845.0	806.6	811.9	810.5
75°	6286.6	1690.0	546.5	746.9	908.7	916.7	803.9	756.1	709.7	717.7	720.3
77.5°	3216.9	957.8	402.0	514.7	713.7	833.1	741.6	677.9	667.3	741.6	730.9
80°	1049.3	480.2	278.6	360.8	468.3	681.9	650.0	577.1	574.4	591.6	508.1
82.5°	313.1	203.0	179.1	237.5	258.7	522.7	561.1	436.4	375.4	395.3	408.6
85°	107.5	98.2	102.1	118.1	123.4	306.4	392.7	289.2	273.3	301.1	297.2
87.5°	25.2	34.5	29.2	26.5	26.5	74.3	152.6	120.7	167.1	111.4	107.5
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)