

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: P456706

Luminaire Tested: **GALN-SA8A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31474 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

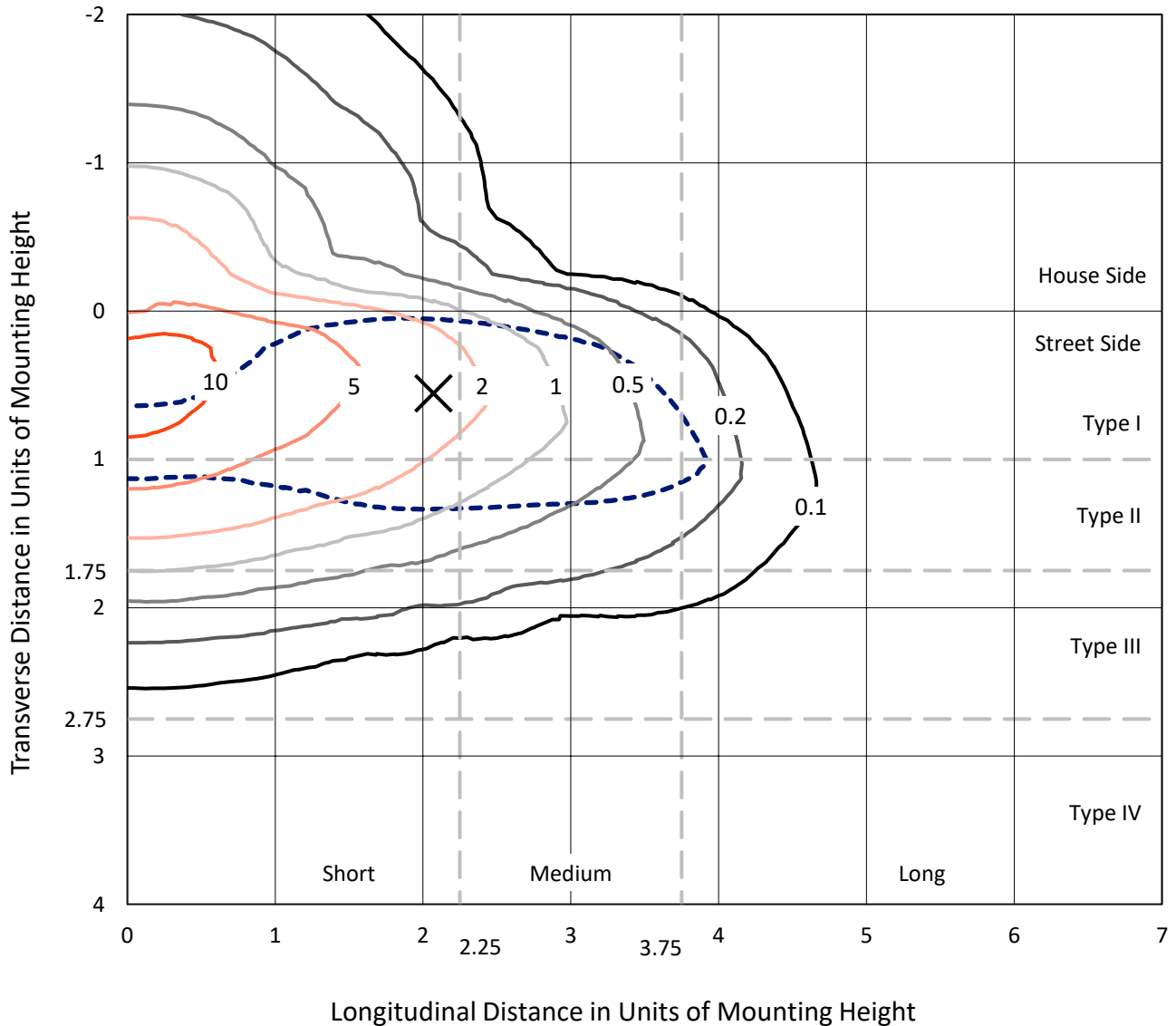
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

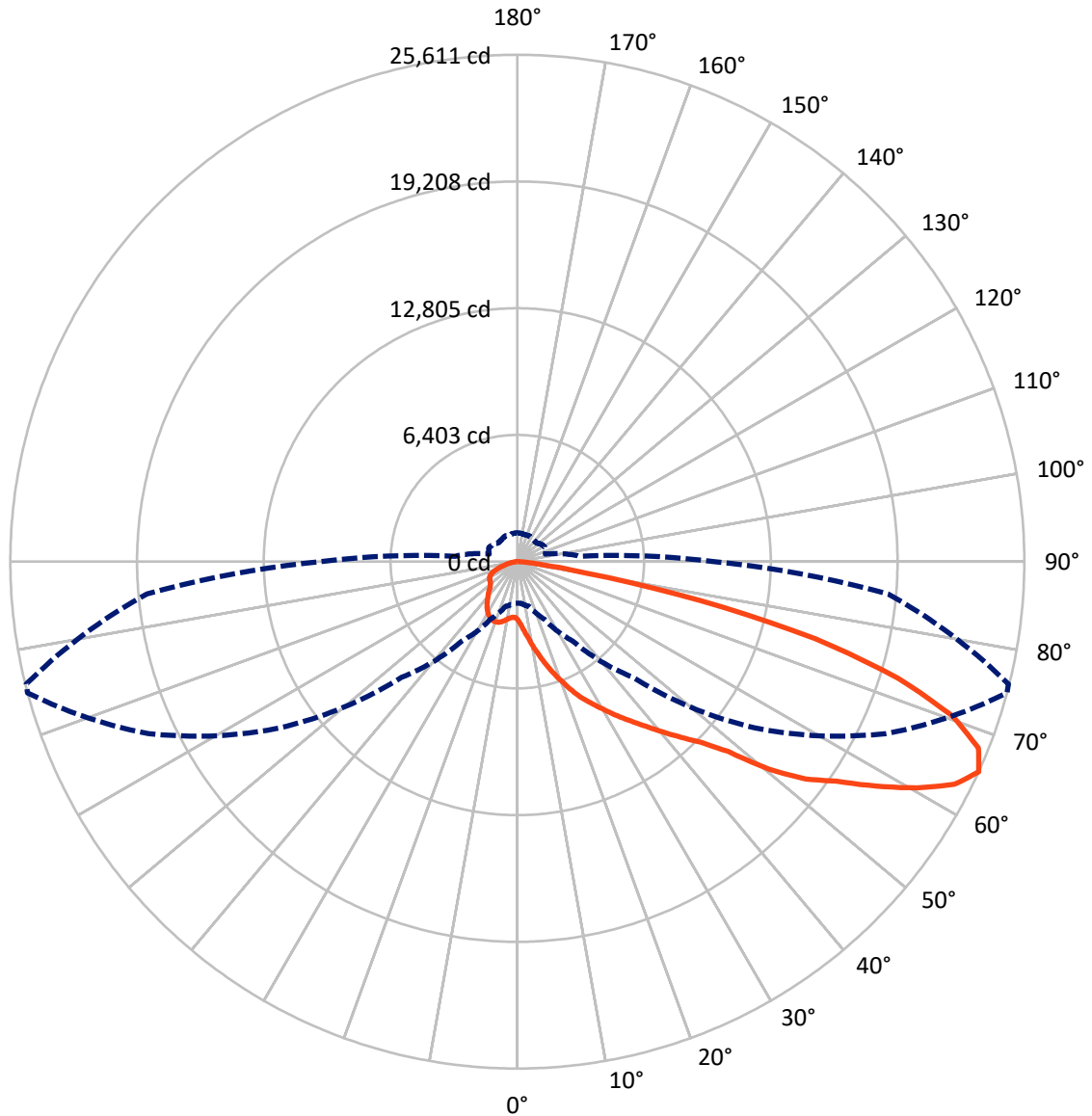
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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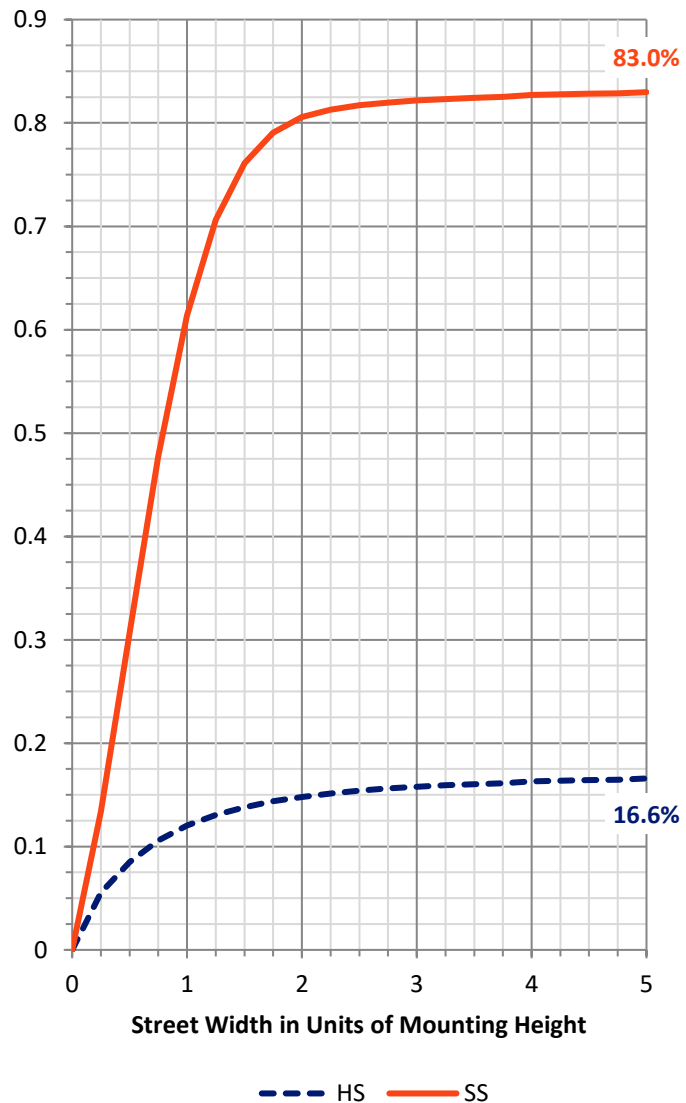
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5291.2	0.0	5291.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26182.8	0.0	26182.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	31474.0	0.0	31474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	1.1
10°-20°	1391.7	4.4
20°-30°	2688.2	8.5
30°-40°	4366.5	13.9
40°-50°	6006.4	19.1
50°-60°	7091.6	22.5
60°-70°	6213.4	19.7
70°-80°	2966.3	9.4
80°-90°	394.7	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°	31474.0	100.0
0°-180°	31474.0	100.0

Coefficient of Utilization



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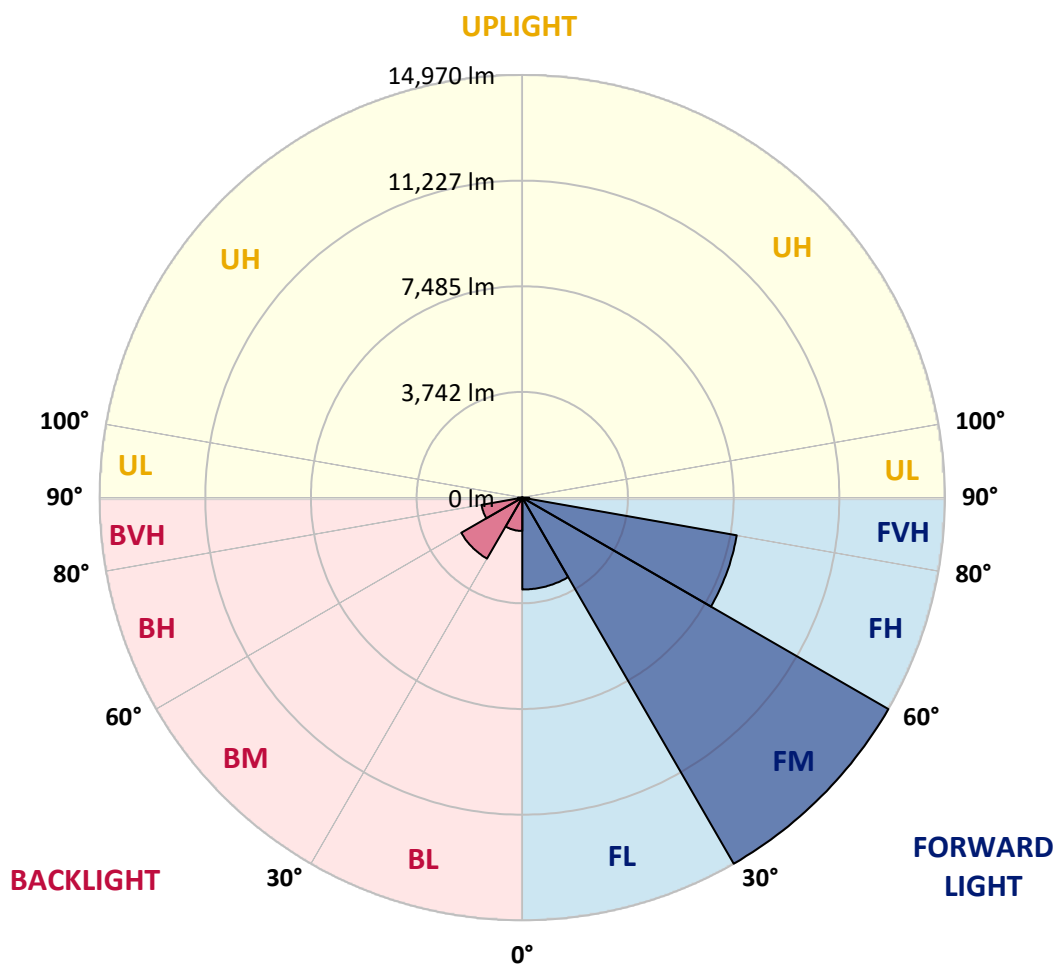
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3253.9	10.3			
FM	(30°-60°)	14969.7	47.6			
FH	(60°-80°)	7712.5	24.5			G4/12000
FVH	(80°-90°)	246.7	0.8			G3/500
BL	(0°-30°)	1181.2	3.8	B3/2500		
BM	(30°-60°)	2494.8	7.9	B2/2500		
BH	(60°-60°)	1467.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	148.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3
2.5°	3885.5	3859.8	3832.5	3757.4	3677.2	3586.7	3457.0	3332.3	3166.7	3161.6	3038.7
5°	4962.7	4945.6	4824.4	4754.4	4568.3	4320.8	4110.8	3784.7	3482.6	3446.7	3207.7
7.5°	5952.8	5886.2	5840.1	5713.8	5529.4	5211.9	4805.6	4365.2	3859.8	3812.0	3416.0
10°	6698.8	6692.0	6668.1	6558.8	6420.6	6104.7	5654.1	5022.4	4337.8	4244.0	3668.6
12.5°	7257.1	7262.2	7258.8	7257.1	7158.0	6890.0	6401.8	5736.0	4821.0	4754.4	3960.6
15°	7624.1	7675.3	7695.8	7781.1	7789.7	7610.4	7190.5	6425.7	5365.5	5266.5	4274.7
17.5°	7866.5	7892.1	7987.7	8132.8	8250.6	8218.2	7844.3	7064.1	5922.1	5756.5	4600.7
20°	8098.7	8143.1	8216.5	8414.5	8622.8	8718.4	8455.5	7718.0	6473.5	6367.6	4961.0
22.5°	8581.8	8645.0	8670.6	8771.3	8948.8	9117.8	8998.3	8344.5	7077.8	6934.4	5343.4
25°	9399.5	9466.1	9394.4	9370.5	9428.5	9512.2	9486.6	8935.2	7648.0	7443.1	5705.3
27.5°	10464.8	10473.3	10333.3	10200.2	10056.8	10014.1	9935.6	9459.3	8143.1	7972.3	6068.9
30°	11608.6	11567.6	11335.4	11094.7	10852.3	10613.3	10388.0	9964.6	8694.5	8498.1	6425.7
32.5°	12670.4	12648.2	12390.4	12016.6	11606.9	11381.5	10925.7	10475.0	9285.1	9095.6	6792.7
35°	13465.9	13498.4	13215.0	12807.0	12359.7	12160.0	11584.7	11011.1	9896.3	9689.7	7192.2
37.5°	14031.0	14013.9	13763.0	13409.6	13016.9	12842.8	12354.6	11596.6	10553.5	10355.5	7629.2
40°	14232.4	14222.2	14036.1	13778.3	13529.1	13467.6	13160.3	12228.2	11306.4	11074.2	8155.0
42.5°	14104.4	14126.6	14003.7	13933.7	13887.6	13932.0	13961.0	13056.2	12127.5	11914.1	8725.2
45°	13711.8	13699.8	13682.7	13797.1	14056.6	14348.5	14753.1	13838.1	13020.4	12849.6	9490.0
47.5°	13010.1	13095.5	13138.2	13454.0	14020.7	14712.1	15664.7	14886.3	14316.1	14167.6	10656.0
50°	12028.5	12096.8	12349.5	12911.1	13756.1	14848.7	16555.9	16600.2	16477.3	16199.1	11922.7
52.5°	10495.5	10601.3	11122.0	12151.4	13213.3	14792.4	17095.3	18070.1	18232.3	18024.0	13170.6
55°	8779.8	8928.3	9478.0	10828.4	12465.5	14485.1	17467.5	18921.9	19569.0	19376.0	14372.4
57.5°	7100.0	7257.1	7822.1	9129.8	11161.3	13805.6	17711.6	19871.1	21388.8	21137.8	15867.9
60°	5321.2	5485.0	5969.9	7316.8	9303.9	12477.5	17546.0	20694.0	23206.9	23099.3	17365.0
62.5°	3433.1	3614.0	4035.7	5150.4	7151.2	10662.8	16660.0	21148.1	24780.9	24651.1	18457.6
65°	2091.2	2111.7	2343.9	3197.5	4894.4	8255.7	14633.6	20545.4	25610.5	25571.3	18790.5
67.5°	1352.1	1384.5	1490.3	1915.4	2934.6	5734.3	11700.7	18556.6	25125.7	25112.0	18102.5
70°	1142.1	1152.3	1200.1	1292.3	1705.4	3477.4	8216.5	15386.5	23283.7	23283.7	16448.3
72.5°	1020.9	1034.5	1051.6	1080.6	1217.2	1970.0	4902.9	11977.3	20103.3	20236.4	14000.3
75°	927.0	923.6	933.8	938.9	1037.9	1287.2	2535.1	8858.4	15552.1	15285.7	10138.7
77.5°	793.8	798.9	793.8	816.0	916.7	979.9	1287.2	5944.3	9425.1	9080.3	5089.0
80°	652.1	660.7	669.2	682.9	783.6	744.3	773.3	2709.2	3486.0	3412.6	1572.3
82.5°	489.9	501.9	515.6	548.0	616.3	491.7	488.2	1157.4	1258.2	1152.3	578.7
85°	198.0	233.9	353.4	385.8	387.5	269.7	300.5	483.1	513.8	501.9	227.0
87.5°	46.1	54.6	114.4	172.4	158.8	100.7	111.0	157.1	179.2	165.6	76.8
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°	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3
2.5°	2982.4	2922.6	2820.2	2741.7	2685.3	2635.8	2605.1	2586.3	2579.5	2577.8	2579.5
5°	3083.1	2977.3	2815.1	2712.6	2656.3	2623.9	2605.1	2603.4	2605.1	2606.8	2601.7
7.5°	3221.4	3069.4	2857.8	2762.2	2719.5	2695.6	2687.0	2683.6	2685.3	2683.6	2683.6
10°	3405.7	3197.5	2941.4	2842.4	2806.5	2779.2	2765.6	2757.0	2750.2	2743.4	2740.0
12.5°	3608.9	3339.2	3031.9	2936.3	2885.1	2842.4	2811.7	2789.5	2774.1	2758.7	2755.3
15°	3835.9	3489.4	3132.6	2999.4	2926.0	2862.9	2810.0	2774.1	2746.8	2724.6	2722.9
17.5°	4052.8	3631.1	3200.9	3028.5	2920.9	2832.1	2762.2	2712.6	2678.5	2649.5	2646.1
20°	4284.9	3766.0	3231.6	3009.7	2869.7	2762.2	2670.0	2610.2	2571.0	2538.5	2533.4
22.5°	4518.8	3880.3	3228.2	2949.9	2780.9	2654.6	2557.3	2494.1	2448.0	2415.6	2403.7
25°	4742.4	3972.5	3185.5	2854.3	2658.0	2526.6	2427.6	2369.5	2328.5	2289.3	2289.3
27.5°	4943.9	4027.1	3105.3	2738.3	2531.7	2393.4	2314.9	2262.0	2224.4	2198.8	2183.4
30°	5141.9	4052.8	2996.0	2591.4	2398.5	2280.7	2217.6	2186.8	2152.7	2123.7	2120.3
32.5°	5319.5	4047.6	2859.5	2448.0	2272.2	2188.6	2162.9	2139.0	2103.2	2062.2	2052.0
35°	5491.9	4013.5	2697.3	2291.0	2166.4	2133.9	2140.8	2106.6	2041.7	1990.5	1982.0
37.5°	5679.7	3952.0	2519.7	2162.9	2077.6	2108.3	2125.4	2050.3	1944.4	1864.2	1845.4
40°	5896.5	3882.0	2335.4	2034.9	2007.6	2084.4	2084.4	1946.1	1801.0	1751.5	1737.9
42.5°	6150.8	3824.0	2181.7	1927.4	1949.6	2026.4	2017.8	1807.9	1748.1	1722.5	1715.7
45°	6553.7	3803.5	2023.0	1833.5	1901.8	1958.1	1888.1	1760.1	1725.9	1705.4	1698.6
47.5°	7190.5	3827.4	1883.0	1763.5	1847.1	1889.8	1743.0	1727.6	1703.7	1674.7	1671.3
50°	7781.1	3805.2	1784.0	1724.2	1799.3	1807.9	1683.2	1688.4	1674.7	1642.3	1635.4
52.5°	8264.3	3735.2	1720.8	1703.7	1758.4	1664.5	1626.9	1645.7	1640.6	1599.6	1592.8
55°	8795.2	3692.5	1690.1	1703.7	1731.0	1539.8	1574.0	1601.3	1594.5	1565.4	1563.7
57.5°	9438.8	3701.1	1667.9	1708.8	1703.7	1476.7	1521.1	1553.5	1551.8	1543.3	1543.3
60°	10097.7	3704.5	1633.7	1707.1	1671.3	1427.2	1466.4	1512.5	1515.9	1521.1	1521.1
62.5°	10316.3	3556.0	1567.2	1676.4	1599.6	1379.4	1415.2	1478.4	1475.0	1488.6	1490.3
65°	9908.2	3144.6	1468.1	1606.4	1507.4	1345.2	1376.0	1434.0	1415.2	1451.1	1457.9
67.5°	9018.8	2601.7	1314.5	1480.1	1405.0	1309.4	1350.3	1372.5	1338.4	1408.4	1410.1
70°	7794.8	2031.5	1119.9	1300.8	1288.9	1271.8	1329.9	1295.7	1247.9	1333.3	1316.2
72.5°	6517.9	1551.8	894.5	1063.5	1133.5	1215.5	1294.0	1196.7	1130.1	1155.7	1125.0
75°	4896.1	1147.2	718.7	833.1	944.0	1135.2	1261.6	1077.2	974.8	950.9	944.0
77.5°	2495.8	749.4	537.7	623.1	708.5	1026.0	1217.2	937.2	807.5	769.9	752.8
80°	891.1	466.0	379.0	430.2	478.0	882.6	1063.5	775.0	626.5	619.7	626.5
82.5°	413.1	300.5	254.4	281.7	283.4	589.0	810.9	578.7	476.3	723.8	611.2
85°	177.5	150.2	143.4	140.0	129.7	262.9	455.8	310.7	484.8	216.8	199.7
87.5°	52.9	59.7	52.9	39.3	29.0	29.0	46.1	17.1	11.9	8.5	8.5
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)