

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: P949863

Luminaire Tested: **GALN-SB4C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949863
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-SB4C-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28356 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
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



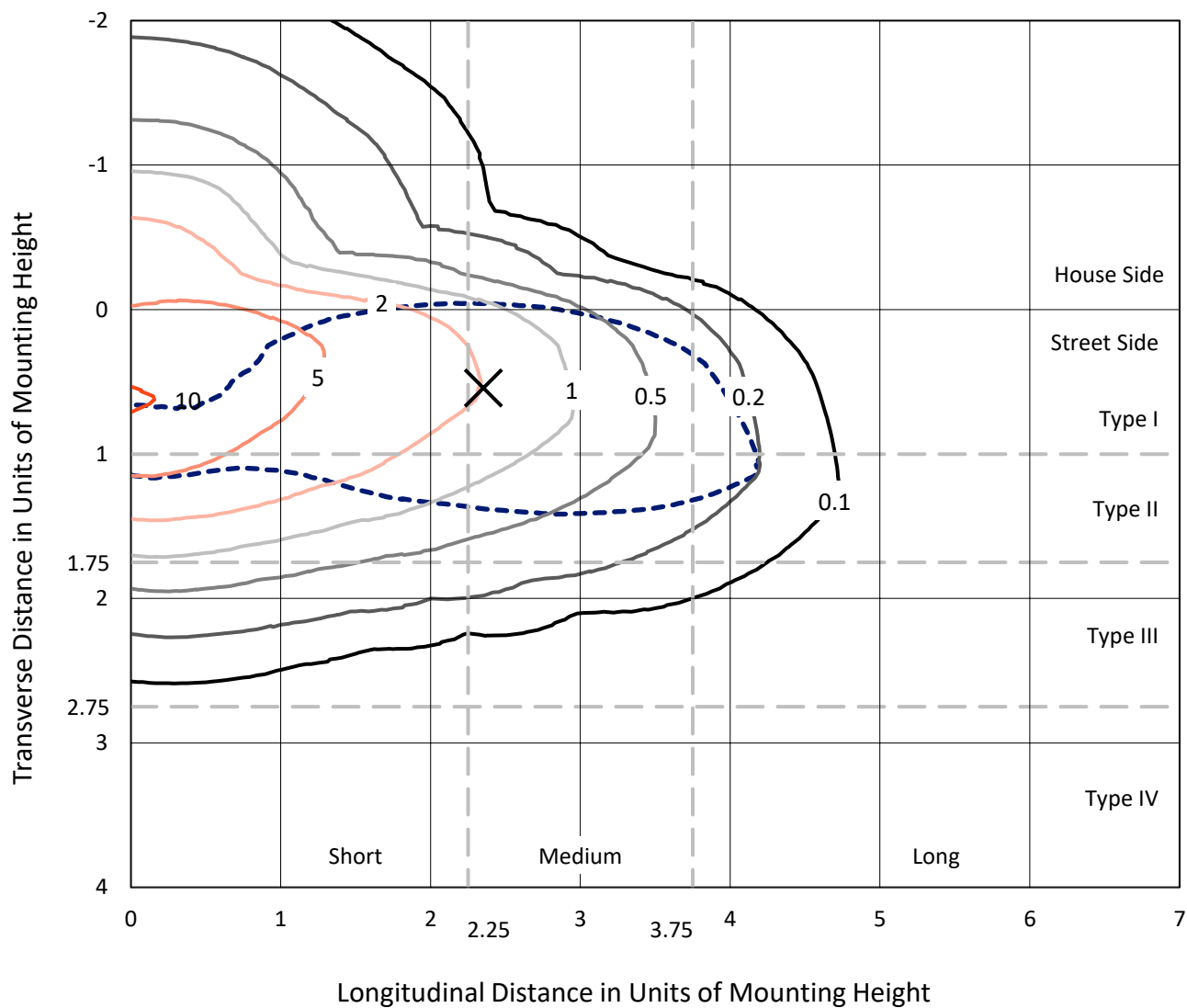
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

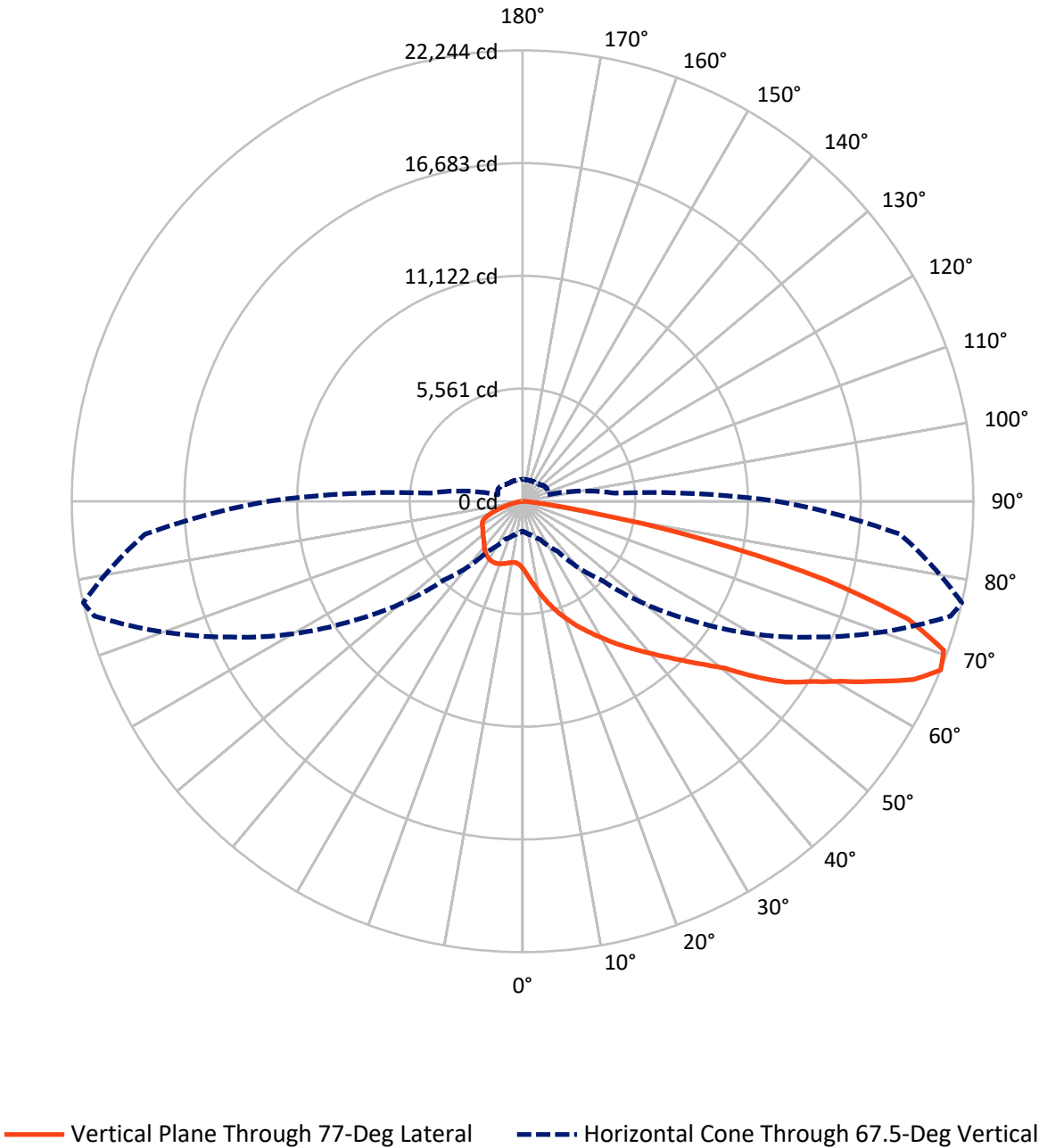
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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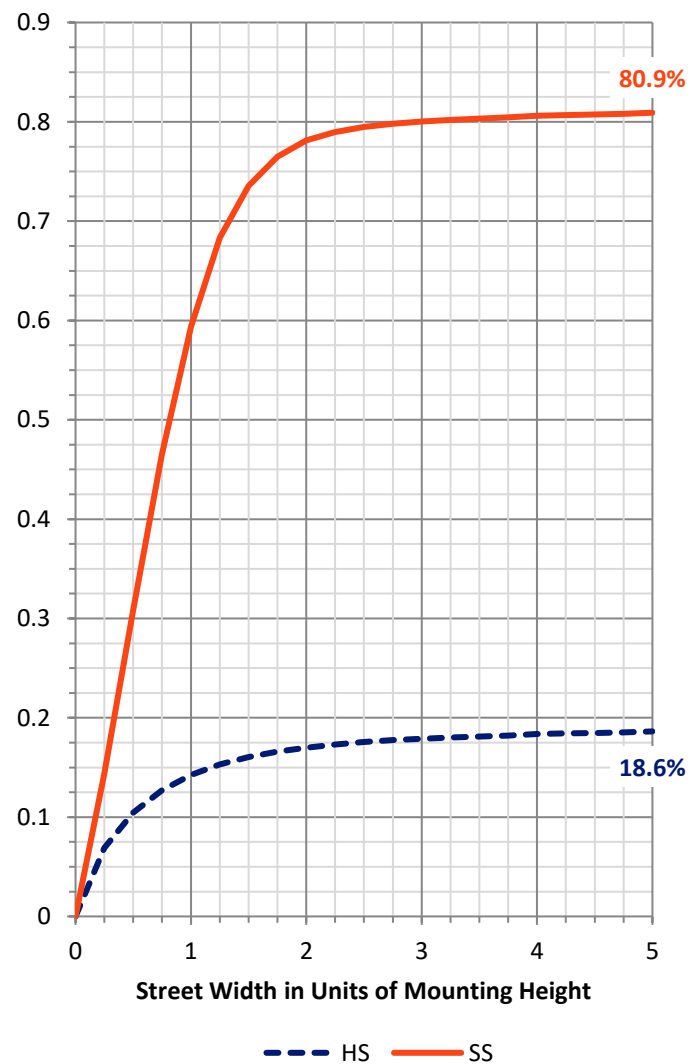
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5363.8	0.0	5363.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22992.2	0.0	22992.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	28356.0	0.0	28356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.3
10°-20°	1281.2	4.5
20°-30°	2419.0	8.5
30°-40°	3896.9	13.7
40°-50°	5330.3	18.8
50°-60°	6012.6	21.2
60°-70°	5612.0	19.8
70°-80°	3076.3	10.8
80°-90°	371.1	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°	28356.0	100.0
0°-180°	28356.0	100.0

Coefficient of Utilization



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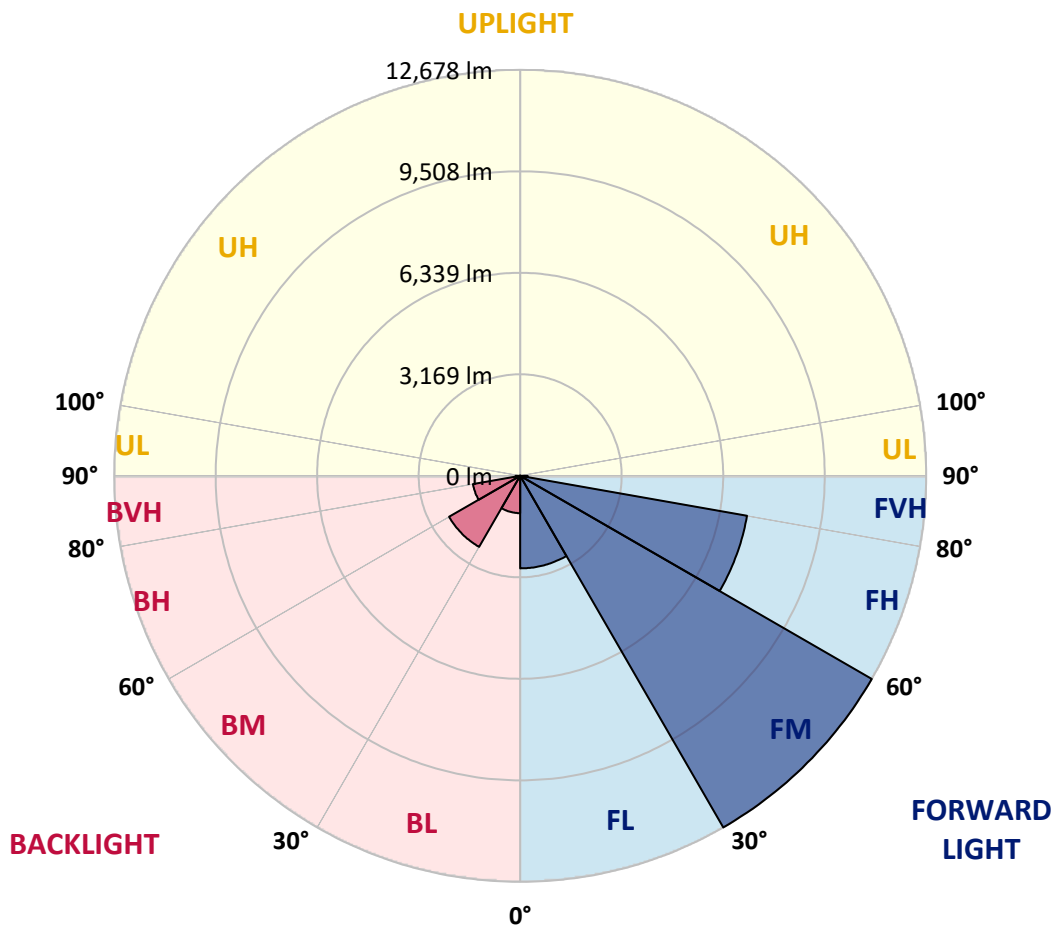
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2890.5	10.2			
FM	(30°-60°)	12677.7	44.7			
FH	(60°-80°)	7191.9	25.4			G3/7500
FVH	(80°-90°)	232.1	0.8			G3/500
BL	(0°-30°)	1166.2	4.1	B3/2500		
BM	(30°-60°)	2562.2	9.0	B3/5000		
BH	(60°-80°)	1496.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	139.0	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°	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0
2.5°	4165.8	4195.0	4158.4	4158.4	4035.5	3971.1	3848.1	3754.4	3586.1	3556.8	3445.6
5°	4924.0	4960.6	4909.3	4887.4	4742.5	4609.3	4402.9	4199.4	3899.4	3868.6	3606.6
7.5°	5510.9	5557.8	5512.4	5489.0	5360.1	5210.8	4969.3	4685.4	4262.4	4202.3	3823.2
10°	5989.5	5996.9	5982.2	5991.0	5890.0	5767.1	5519.7	5188.9	4660.5	4578.5	4085.2
12.5°	6260.3	6294.0	6323.3	6376.0	6358.4	6282.3	6059.8	5664.6	5082.0	4976.7	4370.7
15°	6387.7	6446.2	6512.1	6633.6	6731.7	6750.7	6580.9	6175.4	5510.9	5383.6	4659.0
17.5°	6433.1	6488.7	6592.6	6768.2	6979.0	7121.0	7044.9	6671.6	5935.4	5789.0	4962.0
20°	6662.9	6679.0	6741.9	6908.8	7137.1	7372.8	7429.9	7148.8	6355.5	6190.1	5275.3
22.5°	7154.7	7122.5	7140.0	7216.1	7380.1	7608.4	7738.7	7570.4	6787.3	6597.0	5591.4
25°	7967.0	7873.4	7779.7	7691.9	7775.3	7904.1	8051.9	7991.9	7239.6	6998.1	5910.5
27.5°	8993.1	8878.9	8672.6	8384.2	8283.2	8328.6	8394.4	8382.7	7658.2	7413.8	6239.8
30°	10003.1	9869.9	9624.0	9206.8	8940.4	8820.4	8770.6	8737.0	8113.4	7852.9	6572.1
32.5°	10809.6	10704.2	10462.7	9995.8	9609.3	9404.4	9239.0	9119.0	8589.1	8328.6	6923.4
35°	11515.1	11417.0	11140.4	10631.0	10210.9	9992.8	9776.2	9520.0	9083.9	8820.4	7301.0
37.5°	12159.1	12061.1	11682.0	11152.1	10729.1	10578.3	10385.1	9950.4	9580.1	9331.2	7700.6
40°	12566.1	12544.1	12189.9	11589.7	11150.6	11076.0	11011.6	10449.5	10130.4	9899.2	8139.8
42.5°	12670.0	12718.3	12437.2	11944.0	11525.3	11465.3	11616.1	11014.5	10748.1	10527.1	8637.4
45°	12419.7	12558.7	12374.3	12039.1	11791.7	11759.5	12151.8	11632.2	11431.7	11229.7	9237.5
47.5°	11785.9	12021.5	11945.4	11898.6	11863.5	12002.5	12623.1	12287.9	12206.0	12030.3	9922.6
50°	10506.6	10953.0	11086.2	11381.9	11721.5	12191.3	13052.0	13003.7	13110.6	12933.4	10756.9
52.5°	8294.9	8909.7	9682.5	10423.2	11285.3	12128.4	13523.3	14031.2	14482.1	14385.5	12083.0
55°	6847.3	7123.9	7718.2	9076.5	10439.3	11863.5	13735.6	14861.2	15843.3	15757.0	13088.6
57.5°	5734.9	5982.2	6348.2	7482.5	9160.0	11261.9	13867.3	15367.6	16775.7	16766.9	14081.0
60°	4541.9	4803.9	5178.6	5982.2	7665.5	10222.6	13838.0	15944.3	17965.7	18038.9	15291.5
62.5°	3195.3	3483.7	3899.4	4648.8	6138.8	8876.0	13240.8	16361.5	19366.5	19565.6	16747.9
65°	2100.4	2290.7	2604.0	3250.9	4574.1	7144.4	12100.6	16415.6	20865.4	21202.0	18115.0
67.5°	1472.5	1545.7	1730.1	2081.4	3015.3	5478.7	10284.1	15855.0	21865.1	22244.2	18707.8
70°	1149.0	1185.6	1279.3	1419.8	1894.1	3684.2	7880.7	14397.2	21651.4	22046.6	18088.7
72.5°	992.4	1027.5	1062.7	1080.2	1270.5	2274.6	5338.2	12037.6	19638.8	19906.6	15727.7
75°	900.2	909.0	938.2	932.4	969.0	1475.4	3081.1	8770.6	15495.0	15402.7	11610.2
77.5°	756.7	768.5	816.8	809.4	860.7	1008.5	1599.8	5660.2	10045.5	9419.1	6462.3
80°	641.1	647.0	699.7	690.9	748.0	730.4	816.8	2885.0	4260.9	3609.5	1863.3
82.5°	222.5	275.2	534.3	550.4	570.9	442.0	471.3	1176.8	1301.2	996.8	390.8
85°	108.3	115.6	272.3	386.4	385.0	222.5	229.8	420.1	409.8	322.0	130.3
87.5°	17.6	22.0	32.2	150.8	120.0	58.5	79.0	82.0	84.9	73.2	29.3
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°	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0	3327.0
2.5°	3363.6	3290.4	3136.8	2994.8	2883.5	2776.7	2716.7	2665.4	2636.2	2630.3	2630.3
5°	3454.4	3303.6	3024.0	2788.4	2634.7	2520.5	2460.5	2422.5	2403.4	2391.7	2390.3
7.5°	3584.7	3363.6	2965.5	2697.6	2536.6	2454.7	2423.9	2418.1	2416.6	2418.1	2422.5
10°	3764.7	3461.7	2959.6	2675.7	2541.0	2495.6	2494.2	2495.6	2501.5	2503.0	2504.4
12.5°	3959.4	3562.7	2983.1	2694.7	2596.6	2571.8	2567.4	2565.9	2570.3	2573.2	2574.7
15°	4171.6	3695.9	3022.6	2735.7	2658.1	2631.8	2627.4	2618.6	2617.1	2615.7	2614.2
17.5°	4389.7	3827.6	3066.5	2779.6	2697.6	2661.0	2644.9	2624.5	2608.4	2604.0	2608.4
20°	4610.7	3957.9	3097.2	2801.6	2700.6	2649.3	2617.1	2582.0	2554.2	2538.1	2543.9
22.5°	4846.4	4094.0	3116.3	2795.7	2674.2	2604.0	2545.4	2504.4	2462.0	2434.2	2435.6
25°	5076.2	4212.6	3114.8	2765.0	2623.0	2533.7	2459.1	2406.4	2347.8	2318.5	2318.5
27.5°	5297.2	4319.4	3078.2	2710.8	2549.8	2450.3	2361.0	2298.0	2241.0	2213.1	2211.7
30°	5525.5	4408.7	3021.1	2631.8	2463.4	2353.7	2255.6	2201.4	2150.2	2123.9	2122.4
32.5°	5752.4	4490.7	2940.6	2533.7	2363.9	2258.5	2161.9	2112.2	2081.4	2081.4	2082.9
35°	5992.5	4547.8	2833.8	2419.5	2258.5	2157.5	2081.4	2052.1	2049.2	2031.6	2027.3
37.5°	6245.7	4584.4	2703.5	2302.4	2154.6	2059.5	2036.0	2000.9	1971.6	1933.6	1927.7
40°	6512.1	4621.0	2546.9	2180.9	2044.8	1992.1	1981.9	1935.0	1851.6	1757.9	1744.8
42.5°	6835.6	4645.9	2384.4	2059.5	1929.2	1911.6	1926.3	1845.8	1712.6	1642.3	1643.8
45°	7210.3	4686.8	2235.1	1939.4	1810.6	1810.6	1872.1	1766.7	1656.9	1613.0	1620.3
47.5°	7696.2	4782.0	2096.0	1807.7	1700.8	1730.1	1752.1	1671.6	1610.1	1555.9	1554.5
50°	8398.8	5010.3	1952.6	1674.5	1617.4	1676.0	1645.2	1598.4	1526.7	1482.8	1478.4
52.5°	9271.2	5145.0	1825.3	1554.5	1545.7	1604.2	1560.3	1516.4	1462.3	1403.7	1392.0
55°	9865.5	5169.9	1718.4	1466.6	1497.4	1491.5	1475.4	1435.9	1406.6	1329.1	1330.5
57.5°	10530.0	5219.6	1630.6	1414.0	1466.6	1402.2	1396.4	1362.7	1324.7	1272.0	1254.4
60°	11324.8	5297.2	1554.5	1393.5	1440.3	1343.7	1314.4	1301.2	1263.2	1236.8	1244.2
62.5°	12191.3	5367.5	1476.9	1396.4	1409.6	1286.6	1242.7	1238.3	1214.9	1206.1	1206.1
65°	12782.7	5175.7	1380.3	1393.5	1361.3	1228.1	1172.4	1171.0	1151.9	1149.0	1147.6
67.5°	12576.3	4568.3	1250.0	1352.5	1311.5	1169.5	1108.0	1102.2	1077.3	1078.8	1078.8
70°	11542.9	3701.8	1070.0	1251.5	1250.0	1116.8	1040.7	1021.7	988.0	993.9	999.7
72.5°	9604.9	2743.0	828.5	1083.2	1151.9	1068.5	963.1	932.4	889.9	895.8	894.3
75°	6936.6	1864.8	603.1	824.1	1002.6	1011.4	887.0	834.3	783.1	791.9	794.8
77.5°	3549.5	1056.8	443.5	567.9	787.5	919.2	818.2	748.0	736.3	818.2	806.5
80°	1157.8	529.9	307.4	398.1	516.7	752.4	717.2	636.7	633.8	652.8	560.6
82.5°	345.4	223.9	197.6	262.0	285.4	576.7	619.2	481.6	414.2	436.2	450.8
85°	118.6	108.3	112.7	130.3	136.1	338.1	433.3	319.1	301.5	332.3	327.9
87.5°	27.8	38.1	32.2	29.3	29.3	82.0	168.3	133.2	184.4	123.0	118.6
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)