

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: P527258

Luminaire Tested: **GALN-SA2B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9097 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

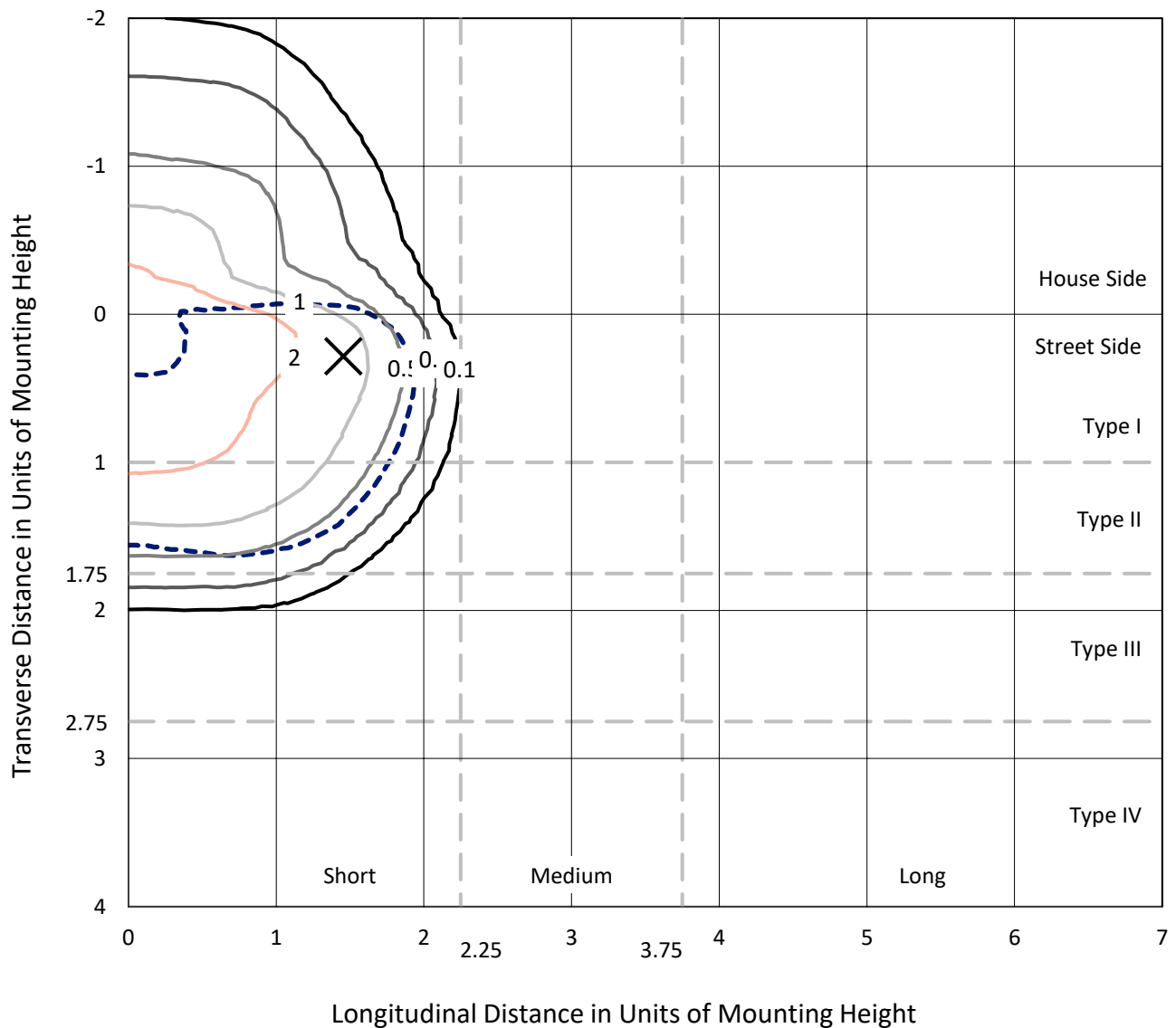
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

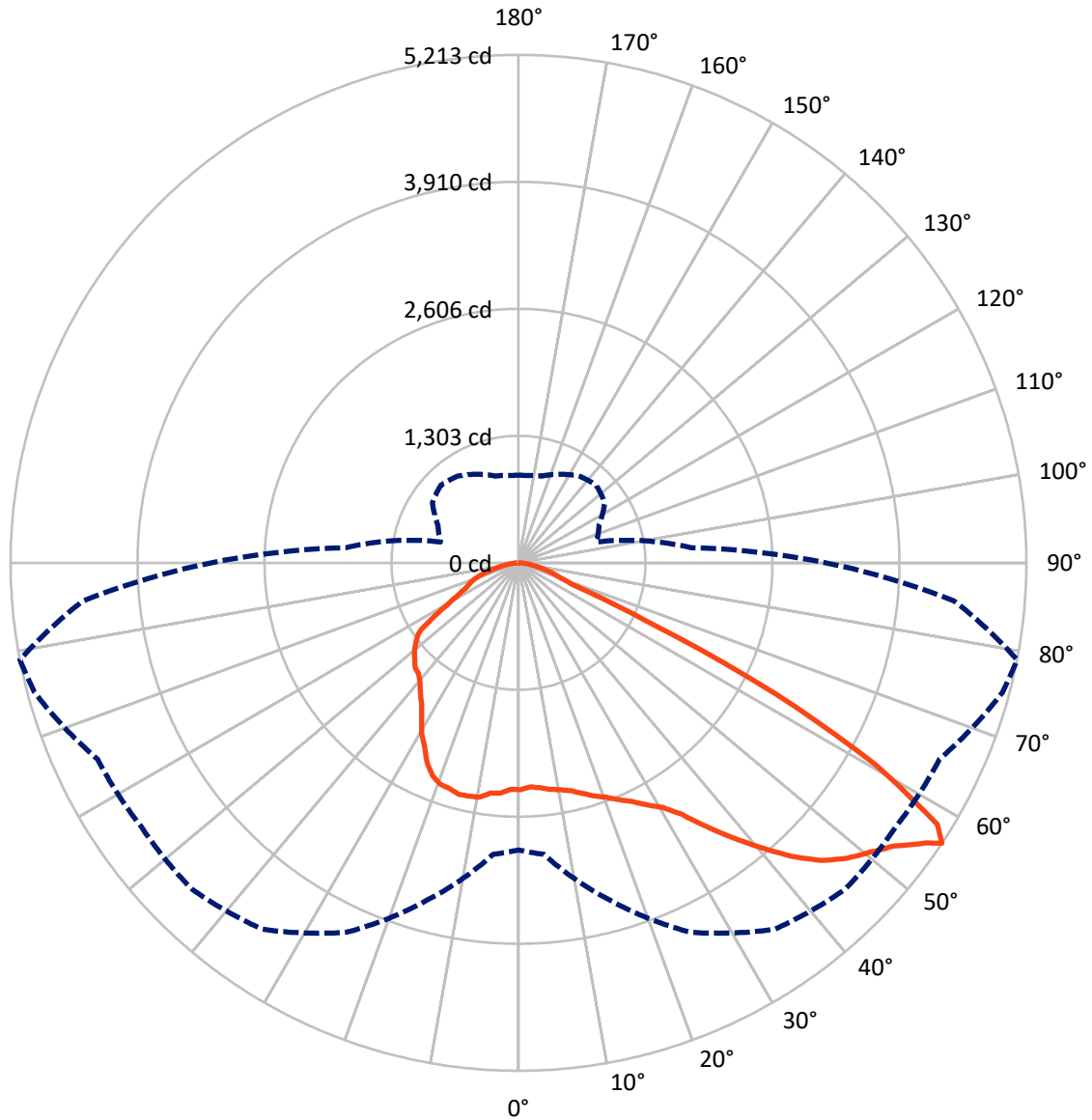
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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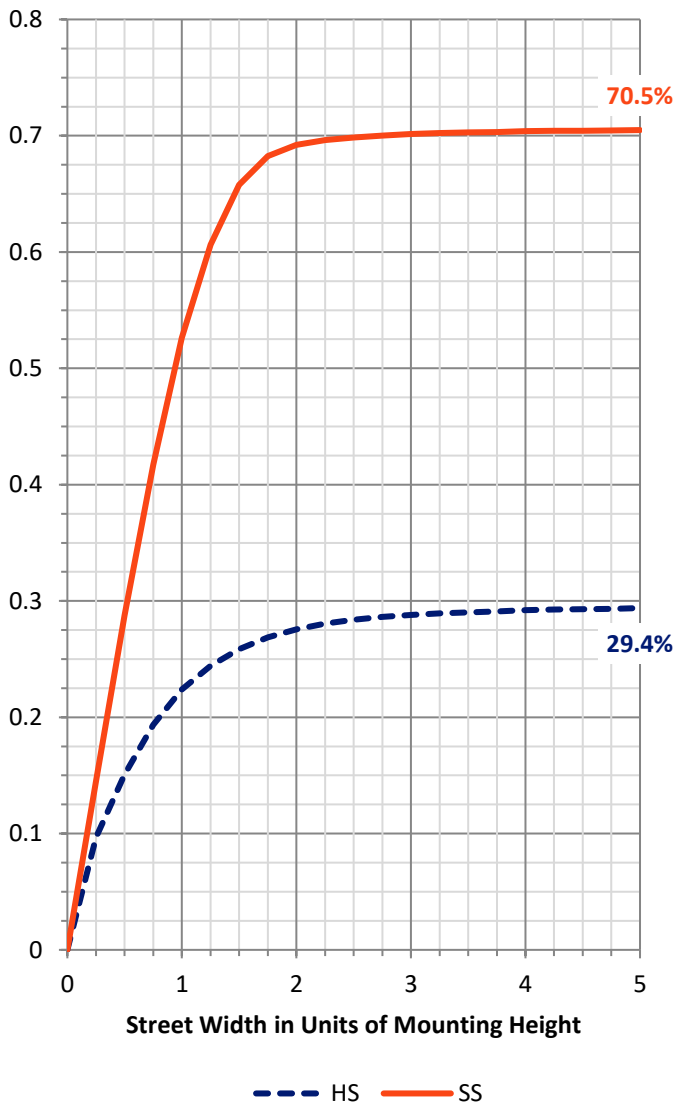
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2686.5	0.0	2686.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	6410.5	0.0	6410.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	9097.0	0.0	9097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	2.3
10°-20°	579.1	6.4
20°-30°	990.8	10.9
30°-40°	1518.5	16.7
40°-50°	2052.3	22.6
50°-60°	2357.1	25.9
60°-70°	1074.4	11.8
70°-80°	264.9	2.9
80°-90°	48.1	0.5
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°	9097.0	100.0
0°-180°	9097.0	100.0

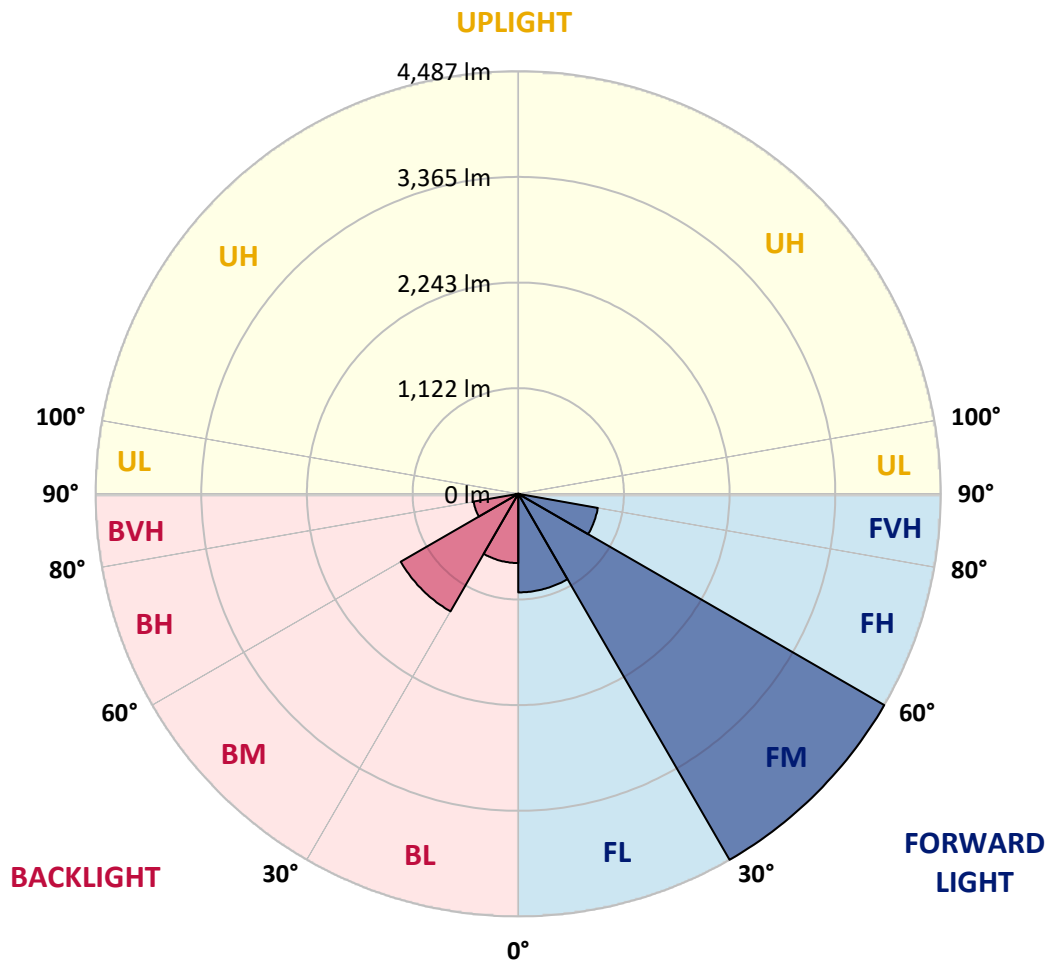


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.7	11.5			
FM (30°-60°)	4486.9	49.3			
FH (60°-80°)	857.6	9.4			G1/1800
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	734.9	8.1	B2/1000		
BM (30°-60°)	1441.0	15.8	B2/2500		
BH (60°-80°)	481.7	5.3	B1/500		G1/500
BVH (80°-90°)	28.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6
2.5°	2214.2	2208.6	2222.2	2232.4	2244.8	2260.7	2268.6	2273.2	2312.8	2302.6	2333.2
5°	2166.6	2151.9	2162.1	2170.0	2191.6	2210.8	2232.4	2266.4	2302.6	2318.5	2355.9
7.5°	2124.7	2116.8	2114.5	2120.2	2149.7	2174.6	2212.0	2261.8	2320.8	2346.8	2368.4
10°	2055.6	2044.3	2061.3	2098.7	2106.6	2158.7	2201.8	2273.2	2324.2	2369.5	2432.9
12.5°	2025.0	2013.7	2017.1	2038.6	2094.1	2144.0	2195.0	2275.4	2383.1	2401.2	2486.2
15°	2073.7	2062.4	2065.8	2060.1	2113.4	2139.5	2219.9	2320.8	2423.9	2454.5	2545.1
17.5°	2184.8	2185.9	2171.2	2158.7	2146.3	2201.8	2257.3	2348.0	2439.7	2516.8	2584.8
20°	2396.7	2359.3	2329.8	2259.6	2240.3	2264.1	2334.4	2421.6	2504.3	2567.8	2644.9
22.5°	2559.9	2563.3	2521.3	2405.8	2363.8	2374.0	2434.1	2505.5	2596.1	2641.5	2729.8
25°	2796.7	2772.9	2727.6	2635.8	2541.7	2549.7	2593.9	2658.5	2683.4	2715.1	2811.4
27.5°	3013.1	3019.9	2930.4	2844.3	2727.6	2704.9	2784.2	2795.6	2753.6	2813.7	2846.6
30°	3233.0	3227.3	3168.4	3067.5	2953.1	2957.6	2992.7	2937.2	2879.4	2912.3	2934.9
32.5°	3460.7	3396.2	3393.9	3303.2	3216.0	3174.1	3131.0	3158.2	3068.7	3075.5	3053.9
35°	3643.2	3652.3	3600.1	3535.5	3492.5	3418.8	3301.0	3349.7	3332.7	3324.8	3231.8
37.5°	3775.8	3740.6	3766.7	3745.2	3704.4	3612.6	3490.2	3536.7	3544.6	3583.1	3475.5
40°	3884.6	3869.8	3939.0	3950.3	3922.0	3723.6	3503.8	3642.1	3761.0	3844.9	3716.8
42.5°	3936.7	3968.4	4040.9	4128.2	4064.7	3852.8	3574.1	3722.5	3987.7	4120.3	3945.8
45°	4006.9	3966.1	4073.8	4233.6	4234.7	3961.6	3642.1	3831.3	4164.5	4357.1	4102.1
47.5°	3935.6	3955.9	4067.0	4269.8	4322.0	4076.1	3825.6	3985.4	4359.4	4530.5	4247.2
50°	3775.8	3816.6	4019.4	4230.2	4387.7	4197.3	4036.4	4152.0	4539.5	4669.9	4271.0
52.5°	3609.2	3631.9	3949.1	4260.8	4417.2	4353.7	4318.6	4382.0	4759.4	4827.4	4300.4
55°	3155.9	3263.6	3716.8	4247.2	4561.1	4635.9	4608.7	4701.6	5008.7	5076.7	4461.3
56°	2946.3	3002.9	3577.5	4183.7	4589.4	4739.0	4725.4	4767.3	5141.3	5212.7	4486.3
57.5°	2558.7	2563.3	3050.5	3902.7	4482.9	4769.6	4756.0	4788.8	5115.2	5066.5	4267.6
60°	1601.2	1671.4	2076.0	3001.8	3812.0	4425.1	4502.1	4238.1	4312.9	4209.8	3320.2
62.5°	829.5	819.3	1087.9	1755.3	2530.4	3168.4	3239.8	3227.3	3111.7	2961.0	2168.9
65°	413.6	415.9	568.9	869.2	1296.4	1659.0	1858.4	1880.0	1572.9	1447.1	1028.9
67.5°	300.3	311.6	409.1	531.5	610.8	683.3	837.4	821.6	622.1	591.5	548.5
70°	233.4	243.6	332.0	405.7	368.3	368.3	401.1	414.7	443.1	455.5	470.3
72.5°	170.0	177.9	253.8	279.9	241.4	259.5	300.3	332.0	361.5	366.0	383.0
75°	116.7	123.5	166.6	154.1	145.0	179.0	219.8	249.3	270.8	282.2	292.4
77.5°	75.9	78.2	95.2	80.5	92.9	115.6	142.8	167.7	189.2	198.3	200.6
80°	34.0	37.4	40.8	51.0	64.6	82.7	102.0	122.4	136.0	139.4	146.2
82.5°	19.3	19.3	24.9	36.3	47.6	60.1	73.7	88.4	104.3	107.7	106.5
85°	10.2	10.2	14.7	21.5	29.5	35.1	34.0	35.1	37.4	43.1	41.9
87.5°	3.4	3.4	4.5	4.5	5.7	6.8	5.7	7.9	10.2	10.2	10.2
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°	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6	2327.6
2.5°	2324.2	2334.4	2320.8	2350.2	2350.2	2344.6	2316.2	2325.3	2332.1	2332.1	2337.8
5°	2368.4	2365.0	2374.0	2338.9	2317.4	2309.4	2263.0	2240.3	2221.0	2219.9	2202.9
7.5°	2393.3	2384.2	2380.8	2354.8	2259.6	2201.8	2102.1	2044.3	2031.8	1987.6	2004.6
10°	2432.9	2449.9	2432.9	2291.3	2158.7	2026.1	1928.7	1839.2	1804.0	1775.7	1758.7
12.5°	2514.5	2506.6	2408.0	2216.5	2030.7	1873.2	1728.1	1634.1	1598.9	1574.0	1571.7
15°	2583.7	2544.0	2393.3	2098.7	1831.2	1663.5	1544.5	1477.7	1461.8	1464.1	1474.3
17.5°	2607.5	2580.3	2316.2	1976.3	1682.8	1485.6	1430.1	1419.9	1434.6	1451.6	1456.1
20°	2644.9	2601.8	2284.5	1809.7	1499.2	1374.6	1371.2	1407.4	1434.6	1459.5	1462.9
22.5°	2723.0	2614.3	2181.4	1652.2	1373.4	1341.7	1374.6	1405.1	1447.1	1467.5	1449.3
25°	2745.7	2587.1	2036.3	1462.9	1294.1	1321.3	1356.4	1398.4	1427.8	1439.1	1447.1
27.5°	2765.0	2545.1	1840.3	1337.2	1269.2	1320.2	1356.4	1391.6	1407.4	1417.6	1426.7
30°	2819.4	2532.7	1670.3	1253.3	1253.3	1297.5	1344.0	1353.0	1374.6	1387.0	1402.9
32.5°	2846.6	2446.5	1495.8	1200.0	1237.4	1308.8	1312.2	1329.2	1330.4	1340.6	1323.6
35°	2918.0	2385.4	1333.8	1161.5	1244.2	1297.5	1314.5	1304.3	1248.8	1221.6	1227.2
37.5°	2970.1	2354.8	1217.0	1157.0	1245.4	1310.0	1319.0	1242.0	1184.2	1138.9	1150.2
40°	3110.6	2278.8	1128.7	1149.0	1255.6	1323.6	1298.6	1214.8	1110.5	1064.1	1056.1
42.5°	3218.2	2224.4	1073.1	1140.0	1263.5	1342.8	1288.4	1160.4	1053.9	1010.8	1022.1
45°	3342.9	2212.0	1043.7	1142.3	1277.1	1353.0	1276.0	1118.5	1005.1	988.1	984.7
47.5°	3387.1	2122.5	1011.9	1123.0	1273.7	1349.6	1234.0	1086.7	987.0	989.3	998.3
50°	3313.4	2030.7	988.1	1083.3	1251.0	1319.0	1168.3	1044.8	976.8	1005.1	1021.0
52.5°	3219.4	1936.6	939.4	1030.1	1204.6	1271.4	1137.7	1042.5	966.6	957.5	960.9
55°	3247.7	1859.6	871.4	957.5	1129.8	1183.0	1103.7	1021.0	941.7	907.7	919.0
56°	3155.9	1780.2	827.2	912.2	1078.8	1126.4	1086.7	1001.7	921.3	898.6	898.6
57.5°	2896.4	1513.9	769.4	839.7	971.1	1027.8	1053.9	990.4	898.6	859.0	860.1
60°	2136.1	1076.5	690.1	740.0	804.6	849.9	971.1	958.7	842.0	814.8	804.6
62.5°	1316.8	786.4	633.5	652.7	685.6	723.0	847.6	868.0	781.9	752.4	745.6
65°	737.7	601.7	590.4	598.3	614.2	633.5	703.7	749.0	690.1	644.8	642.5
67.5°	539.4	538.3	547.3	554.1	560.9	560.9	577.9	596.1	588.1	551.9	548.5
70°	479.3	482.7	489.5	490.7	492.9	485.0	471.4	465.7	474.8	452.1	447.6
72.5°	395.5	406.8	414.7	415.9	403.4	393.2	375.1	355.8	349.0	344.5	343.4
75°	303.7	311.6	315.0	313.9	309.4	294.6	273.1	253.8	241.4	227.8	234.6
77.5°	205.1	216.4	222.1	222.1	215.3	192.6	182.4	167.7	155.2	140.5	142.8
80°	143.9	151.8	160.9	159.8	148.4	137.1	122.4	108.8	98.6	87.3	86.1
82.5°	107.7	112.2	116.7	114.5	106.5	95.2	85.0	72.5	61.2	53.3	53.3
85°	38.5	41.9	51.0	53.3	57.8	57.8	48.7	40.8	32.9	27.2	27.2
87.5°	11.3	11.3	12.5	12.5	11.3	12.5	10.2	11.3	12.5	7.9	7.9
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)