

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: P648020

Luminaire Tested: **GALN-SA6A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21186.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

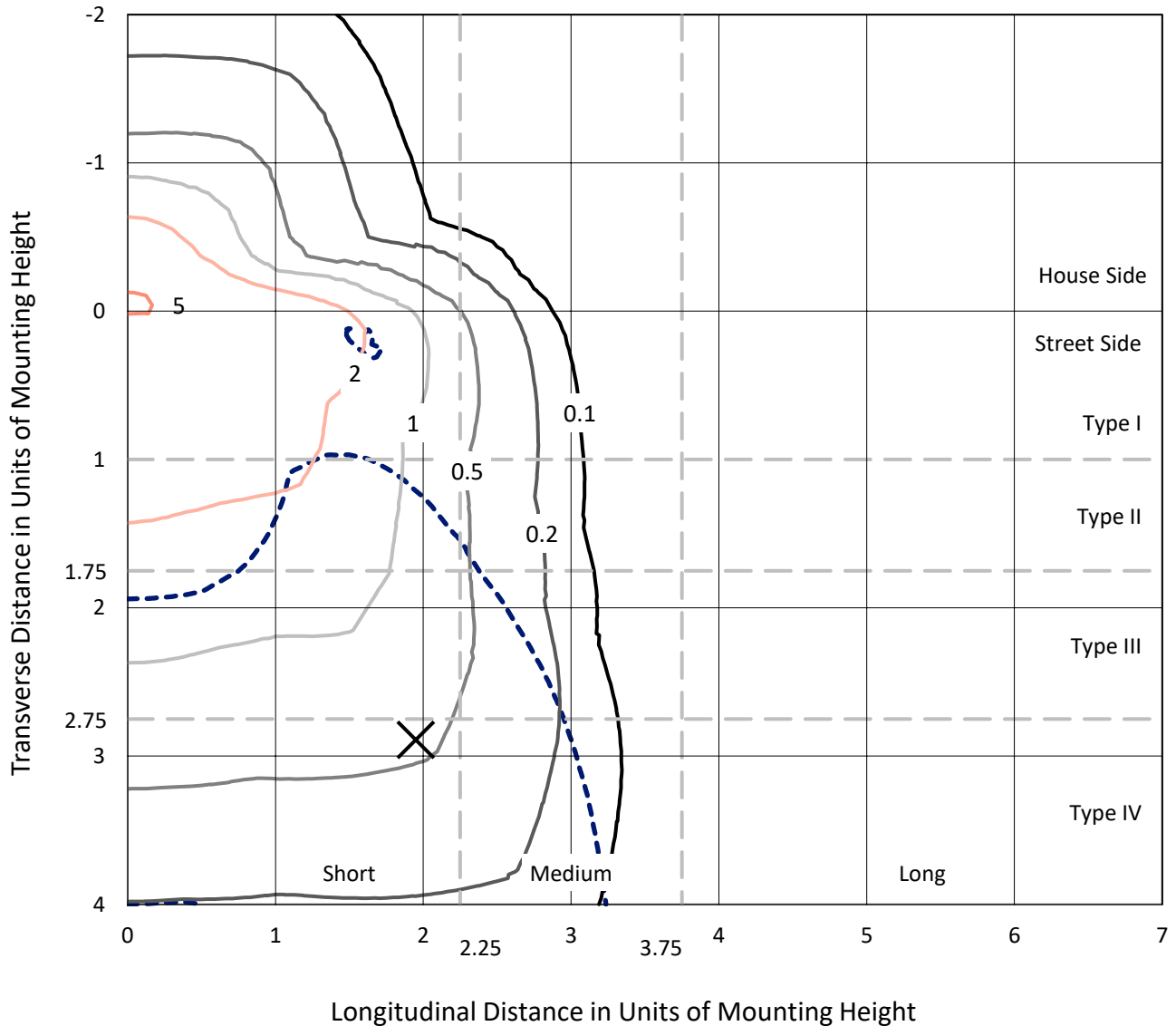
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

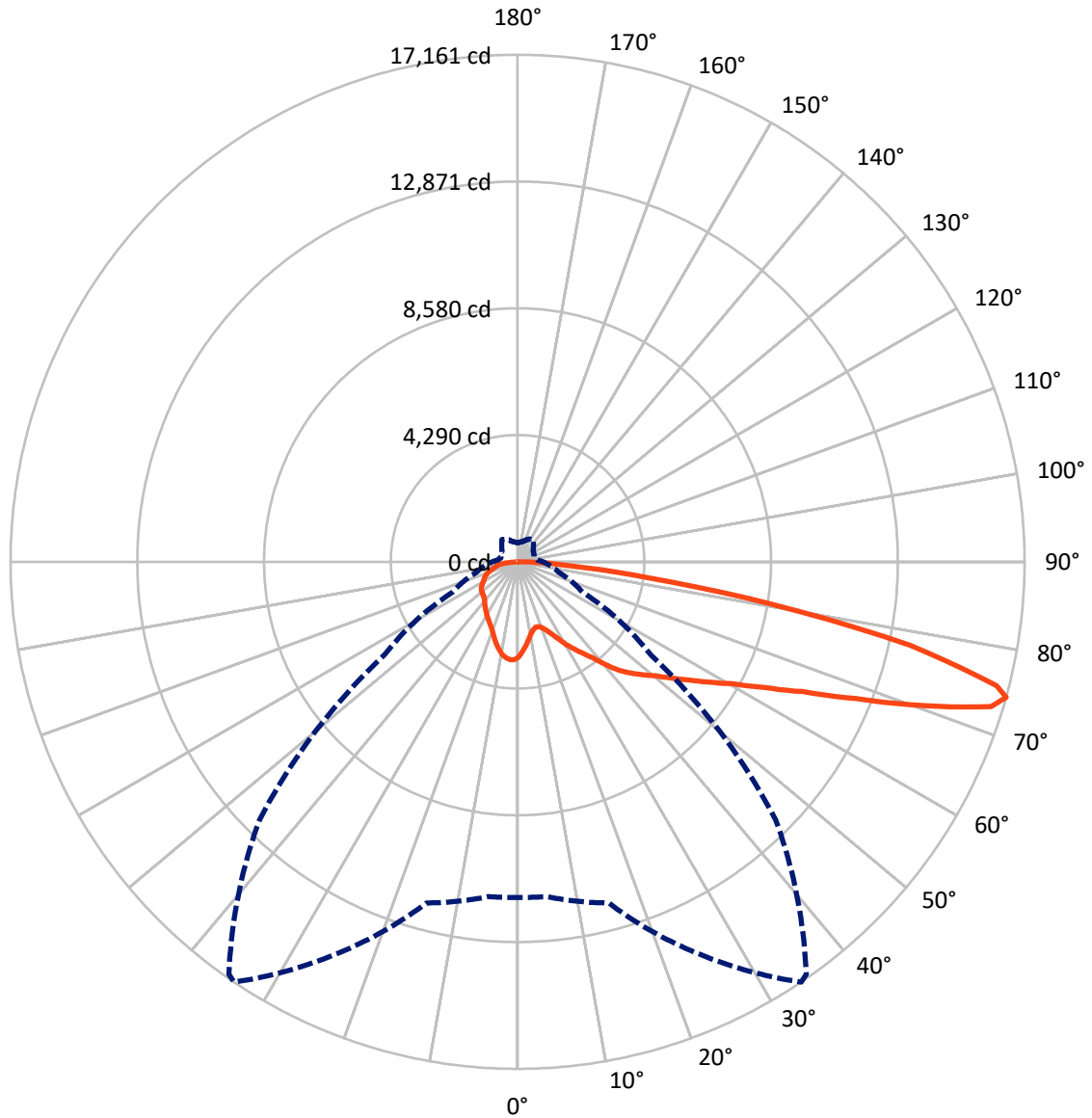
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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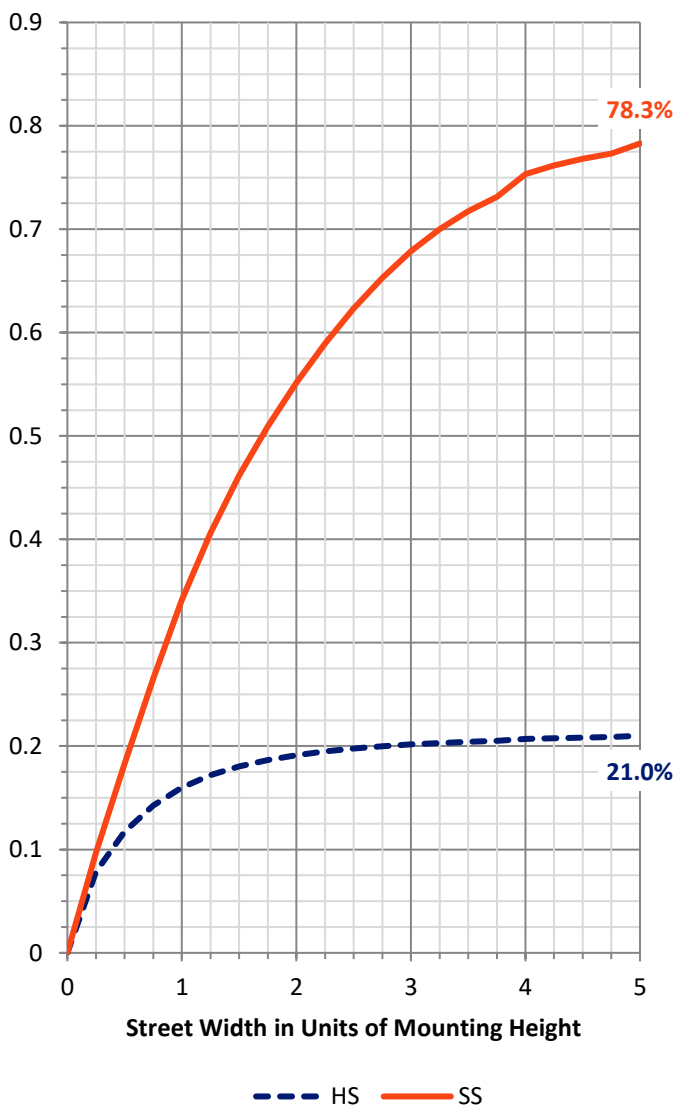
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4508.6	0.0	4508.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16677.8	0.0	16677.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	21186.4	0.0	21186.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	1.4
10°-20°	805.3	3.8
20°-30°	1327.8	6.3
30°-40°	1988.8	9.4
40°-50°	2891.2	13.6
50°-60°	4038.4	19.1
60°-70°	5055.8	23.9
70°-80°	4180.8	19.7
80°-90°	604.1	2.9
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°	21186.4	100.0
0°-180°	21186.4	100.0

Coefficient of Utilization

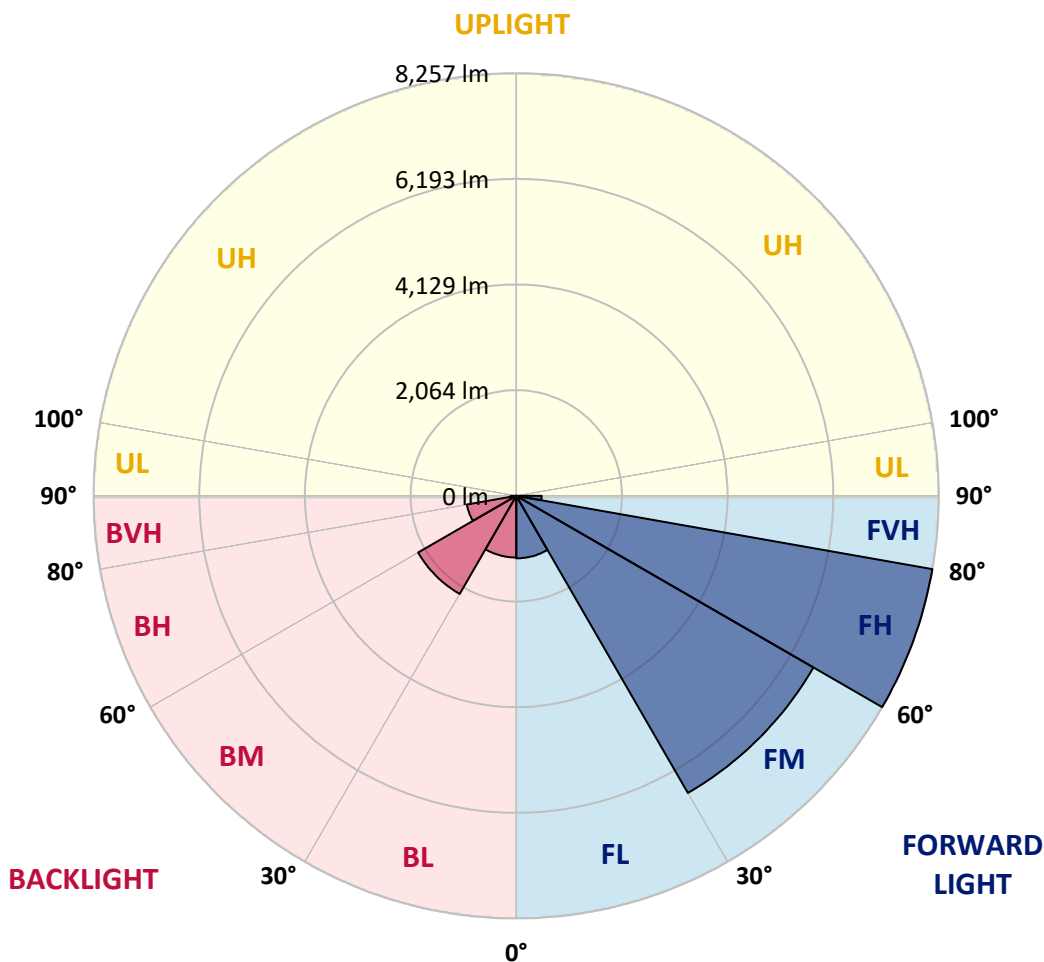


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.3	5.8			
FM (30°-60°)	6704.3	31.6			
FH (60°-80°)	8257.3	39.0			G4/12000
FVH (80°-90°)	494.9	2.3			G3/500
BL (0°-30°)	1206.0	5.7	B3/2500		
BM (30°-60°)	2214.2	10.5	B2/2500		
BH (60°-80°)	979.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	109.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7
2.5°	2989.4	3004.7	3012.9	3042.3	3049.3	3058.7	3083.4	3116.2	3158.5	3196.0	3228.9
5°	2740.6	2764.1	2778.2	2804.0	2854.4	2859.1	2924.9	3000.0	3085.6	3165.5	3231.2
7.5°	2504.7	2530.5	2542.2	2589.2	2656.1	2666.7	2762.9	2881.4	3024.7	3145.5	3246.5
10°	2327.5	2340.4	2366.2	2401.4	2481.2	2488.3	2613.9	2772.3	2957.8	3136.1	3272.3
12.5°	2231.2	2238.3	2244.2	2281.7	2360.4	2370.9	2502.4	2681.9	2904.9	3143.2	3314.6
15°	2245.3	2247.7	2221.8	2228.9	2292.2	2307.5	2437.8	2622.0	2872.0	3160.8	3377.9
17.5°	2363.9	2355.7	2292.2	2259.4	2304.0	2311.0	2424.9	2598.6	2856.8	3193.7	3443.6
20°	2550.5	2538.7	2429.6	2356.8	2382.7	2388.5	2467.2	2616.2	2872.0	3247.6	3545.8
22.5°	2782.9	2778.2	2612.7	2524.6	2523.5	2523.5	2564.6	2679.6	2917.8	3321.6	3652.6
25°	3108.0	3083.4	2867.3	2753.5	2721.9	2719.5	2714.8	2784.0	2976.5	3400.3	3779.4
27.5°	3441.3	3399.1	3206.5	3031.7	2963.7	2955.4	2924.9	2931.9	3051.7	3489.4	3923.7
30°	3740.6	3713.6	3532.9	3339.2	3258.2	3239.4	3154.9	3116.2	3177.3	3650.3	4153.7
32.5°	3969.5	3953.1	3812.2	3636.2	3516.5	3512.9	3389.7	3358.0	3373.2	3845.1	4416.7
35°	4154.9	4160.8	4089.2	3936.6	3799.3	3779.4	3697.2	3657.3	3612.7	4126.8	4747.6
37.5°	4408.4	4421.4	4416.7	4285.2	4117.4	4122.1	4103.3	4037.5	3919.0	4441.3	5115.0
40°	4687.8	4697.2	4696.0	4645.5	4557.5	4562.2	4555.2	4480.1	4302.8	4841.5	5523.5
42.5°	5073.9	5029.4	4913.2	4963.6	5015.3	5037.6	5085.7	5014.1	4771.1	5268.8	5907.3
45°	5505.9	5421.3	5158.5	5181.9	5373.3	5415.5	5680.7	5582.2	5279.4	5759.4	6359.1
47.5°	5778.1	5694.8	5473.0	5468.3	5721.9	5762.9	6232.4	6196.0	5741.8	6288.7	6910.8
50°	6021.1	6009.4	5759.4	5819.3	6066.9	6127.9	6833.3	6799.3	6203.1	6913.2	7511.7
52.5°	6381.4	6286.4	6086.9	6210.1	6537.6	6617.4	7429.6	7329.8	6626.8	7464.8	8095.0
55°	6543.5	6521.1	6509.4	6616.2	7065.7	7123.3	8009.4	7780.5	6988.3	7931.9	8538.8
57.5°	6976.5	6935.4	7051.6	7124.4	7687.8	7775.8	8615.0	8251.2	7305.2	8302.9	8754.7
60°	7537.5	7515.2	7622.1	7753.5	8382.6	8516.5	9305.2	8652.6	7559.9	8489.4	8636.2
62.5°	8375.6	8373.2	8353.3	8635.0	9367.4	9490.6	10097.4	9043.4	7599.8	8349.8	8023.5
65°	9577.5	9535.2	9361.5	9669.0	10592.7	10737.1	10922.5	9261.7	7359.2	7632.6	6755.9
67.5°	10834.5	10832.2	10691.3	11090.4	12352.1	12501.2	11954.2	9213.6	6691.4	6183.1	4798.1
70°	11876.8	11826.3	12005.9	13069.3	14599.8	14772.3	12856.9	8646.7	5329.8	4083.3	2851.0
72.5°	12126.8	12129.1	12502.4	14595.1	16758.2	16785.2	13182.0	7008.2	3566.9	2252.4	1426.1
74°	11356.8	11376.8	11955.4	14671.4	17160.9	17038.8	12351.0	5508.2	2412.0	1470.6	1028.2
75°	10366.2	10240.6	11077.5	14163.1	16743.0	16611.5	11377.9	4420.2	1840.4	1174.9	900.2
77.5°	5542.2	5670.2	6961.3	10569.2	13602.1	13450.7	7714.8	2119.7	994.1	818.1	647.9
80°	1973.0	2176.0	3058.7	5530.5	8720.7	8767.6	3681.9	971.9	699.5	603.3	457.7
82.5°	805.2	827.5	1313.4	2454.2	4428.4	4470.7	1503.5	577.5	500.0	415.5	273.5
85°	314.5	323.9	581.0	1103.3	1889.7	2012.9	520.0	305.1	307.5	238.3	139.7
87.5°	105.6	119.7	238.3	367.4	642.0	629.1	151.4	90.4	110.3	103.3	43.5
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°	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7	3234.7
2.5°	3245.3	3267.6	3282.9	3299.3	3314.6	3319.2	3315.8	3326.3	3327.4	3328.6	3329.8
5°	3264.1	3294.6	3323.9	3340.4	3347.4	3341.5	3321.6	3311.1	3301.7	3294.6	3297.0
7.5°	3289.9	3333.3	3360.3	3367.4	3348.6	3321.6	3272.3	3233.6	3208.9	3192.5	3191.4
10°	3329.8	3372.1	3394.4	3374.4	3322.7	3257.0	3179.6	3106.8	3051.7	3035.2	3034.0
12.5°	3380.3	3428.4	3427.3	3368.5	3278.2	3160.8	3035.2	2950.7	2875.6	2838.1	2853.3
15°	3446.0	3482.4	3448.3	3342.7	3199.6	3038.7	2883.8	2768.8	2684.3	2644.3	2646.7
17.5°	3522.3	3554.0	3463.6	3297.0	3089.2	2882.6	2703.1	2593.9	2527.0	2497.7	2495.3
20°	3617.4	3626.8	3463.6	3217.1	2947.2	2700.7	2529.3	2453.1	2415.5	2400.2	2404.9
22.5°	3719.5	3700.7	3444.8	3104.4	2760.5	2510.5	2395.5	2361.5	2342.7	2340.4	2342.7
25°	3834.5	3781.7	3406.1	2951.9	2565.7	2346.3	2279.3	2285.2	2288.7	2288.7	2296.9
27.5°	3975.4	3869.7	3341.5	2759.4	2338.0	2193.7	2174.9	2216.0	2234.8	2238.3	2244.2
30°	4160.8	3966.0	3234.7	2518.8	2144.4	2056.3	2089.2	2144.4	2165.5	2178.4	2176.0
32.5°	4381.4	4071.6	3090.3	2278.1	1988.3	1960.1	2000.0	2056.3	2079.8	2086.9	2077.5
35°	4640.8	4191.3	2900.2	2052.8	1852.1	1868.6	1915.5	1933.1	1954.2	1954.2	1958.9
37.5°	4920.2	4287.6	2667.8	1846.2	1746.5	1806.3	1840.4	1823.9	1814.5	1802.9	1808.7
40°	5204.2	4359.2	2366.2	1642.0	1640.9	1741.8	1751.2	1704.2	1666.7	1654.9	1649.1
42.5°	5451.9	4403.7	2093.9	1483.6	1541.1	1678.4	1685.5	1610.3	1550.5	1515.3	1503.5
45°	5744.2	4455.4	1827.4	1352.1	1448.4	1627.9	1645.6	1544.6	1456.5	1382.6	1363.8
47.5°	6144.4	4572.8	1617.4	1250.0	1381.4	1596.2	1620.9	1490.6	1374.4	1278.2	1262.9
50°	6596.2	4733.5	1454.3	1180.8	1329.8	1568.1	1598.6	1435.5	1298.1	1191.3	1179.6
52.5°	7010.6	4820.5	1313.4	1118.5	1279.3	1516.4	1569.3	1395.5	1223.0	1104.5	1093.9
55°	7237.1	4679.6	1174.9	1057.5	1210.1	1449.6	1528.2	1340.3	1150.2	1058.7	1043.4
57.5°	7267.6	4388.5	1049.3	991.7	1137.3	1367.4	1451.9	1273.5	1103.3	1027.0	1014.1
60°	7031.7	3954.2	951.9	937.8	1063.4	1274.6	1366.2	1214.8	1055.2	991.7	978.9
62.5°	6444.9	3482.4	883.8	888.5	988.3	1177.2	1302.8	1158.4	1009.4	953.1	941.3
65°	5435.4	2874.4	818.1	838.0	921.4	1101.0	1245.3	1111.5	963.6	923.7	913.1
67.5°	3775.9	2075.1	764.1	785.2	858.0	1023.5	1178.4	1061.0	912.0	890.8	874.4
70°	2090.4	1277.0	700.7	725.4	792.2	936.6	1103.3	984.8	836.9	827.5	804.0
72.5°	1098.6	813.4	629.1	656.1	703.1	825.1	988.3	901.4	762.9	723.0	692.5
74°	858.0	666.6	581.0	609.2	640.8	759.4	920.2	841.6	710.1	663.1	639.7
75°	747.7	593.9	539.9	576.3	604.5	714.8	867.4	799.3	680.7	636.2	615.0
77.5°	528.1	444.8	441.3	484.8	500.0	626.8	781.7	727.7	606.8	559.8	539.9
80°	370.9	333.3	349.8	376.8	397.9	554.0	725.4	629.1	497.7	442.5	435.4
82.5°	241.8	218.3	250.0	274.7	281.7	408.4	585.7	477.7	362.7	294.6	273.5
85°	111.5	109.2	143.2	139.7	138.5	199.5	347.4	279.4	208.9	156.1	146.7
87.5°	28.2	27.0	35.2	29.4	35.2	30.5	31.7	8.2	1.2	0.0	0.0
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)