

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: P648323

Luminaire Tested: **GALN-SA3B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13019 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

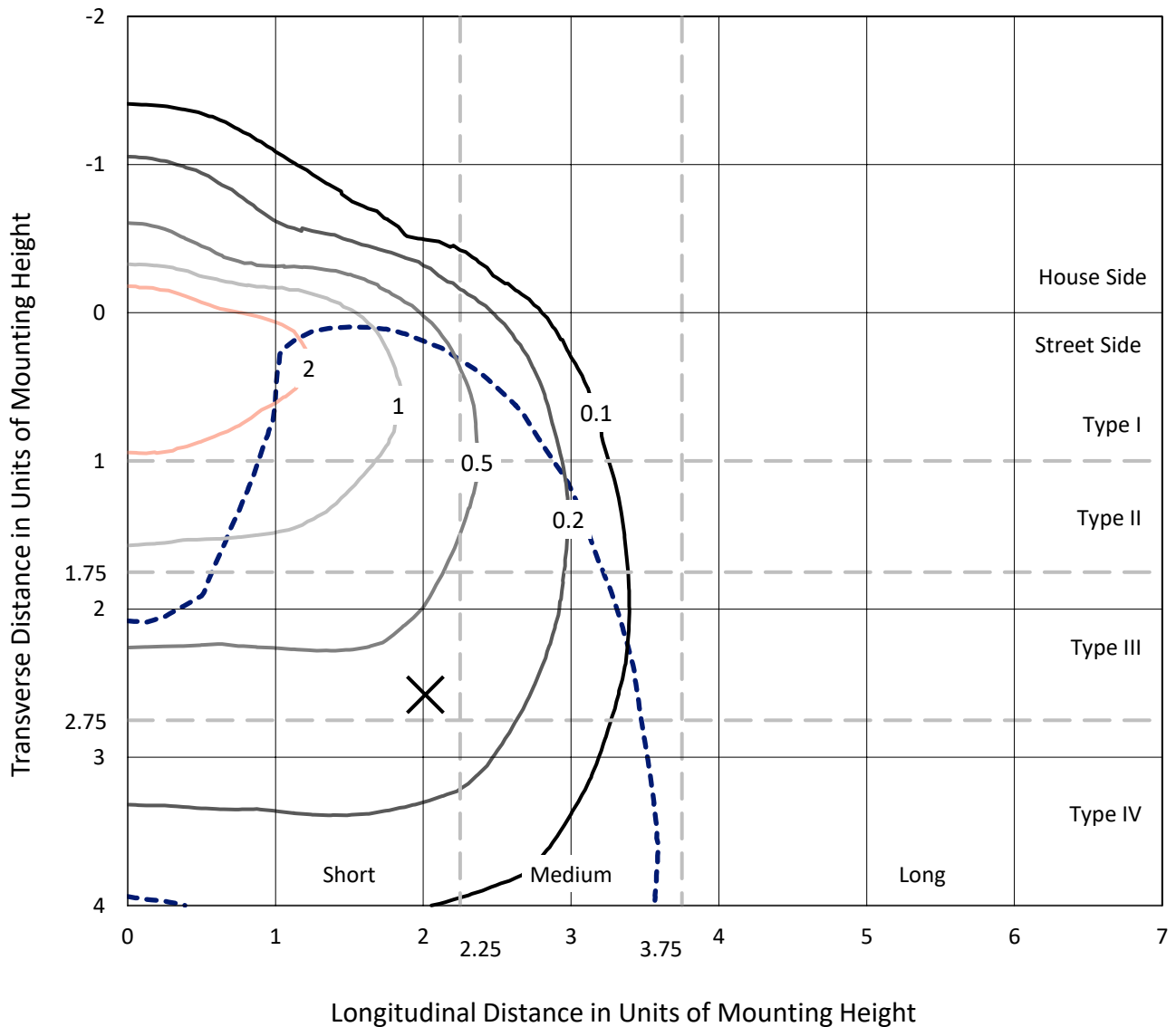
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

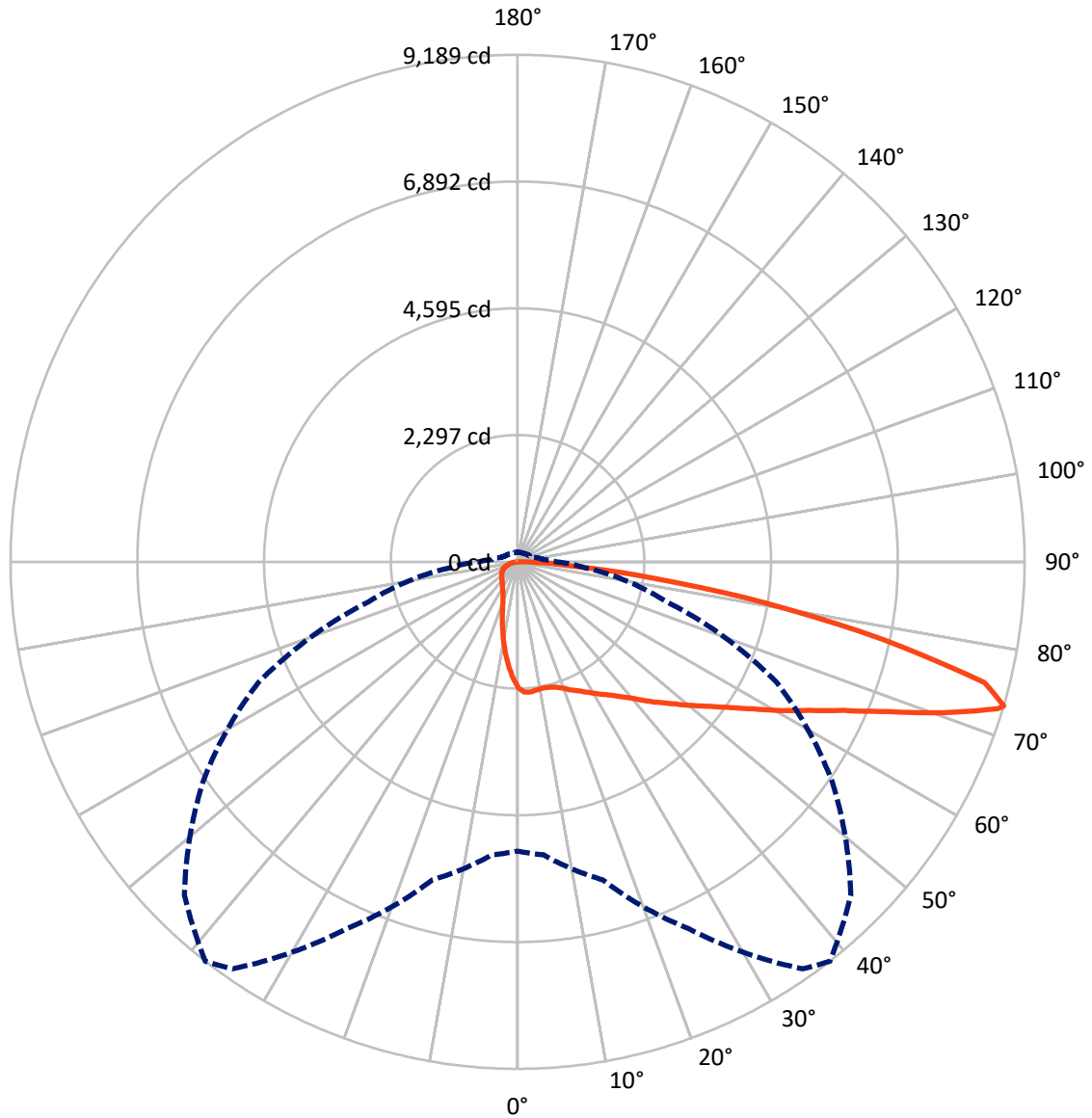
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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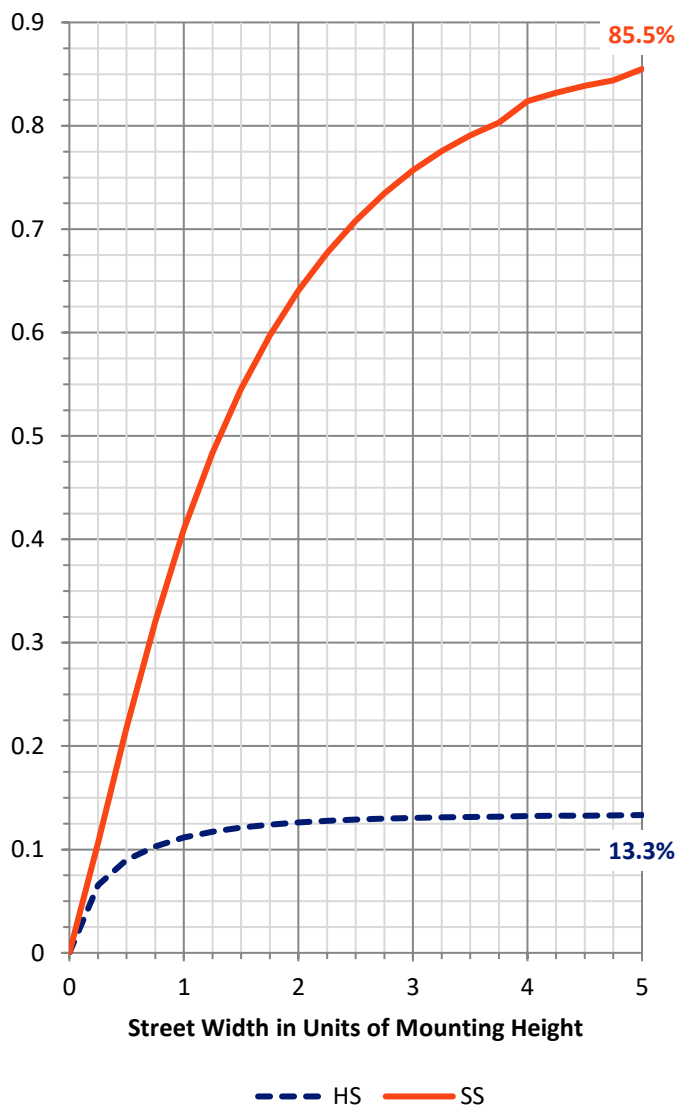
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.1	0.0	1750.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11268.8	0.0	11268.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	13019.0	0.0	13019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	1.5
10°-20°	512.0	3.9
20°-30°	797.2	6.1
30°-40°	1169.3	9.0
40°-50°	1734.6	13.3
50°-60°	2457.6	18.9
60°-70°	3117.5	23.9
70°-80°	2595.1	19.9
80°-90°	436.0	3.3
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°	13019.0	100.0
0°-180°	13019.0	100.0

Coefficient of Utilization



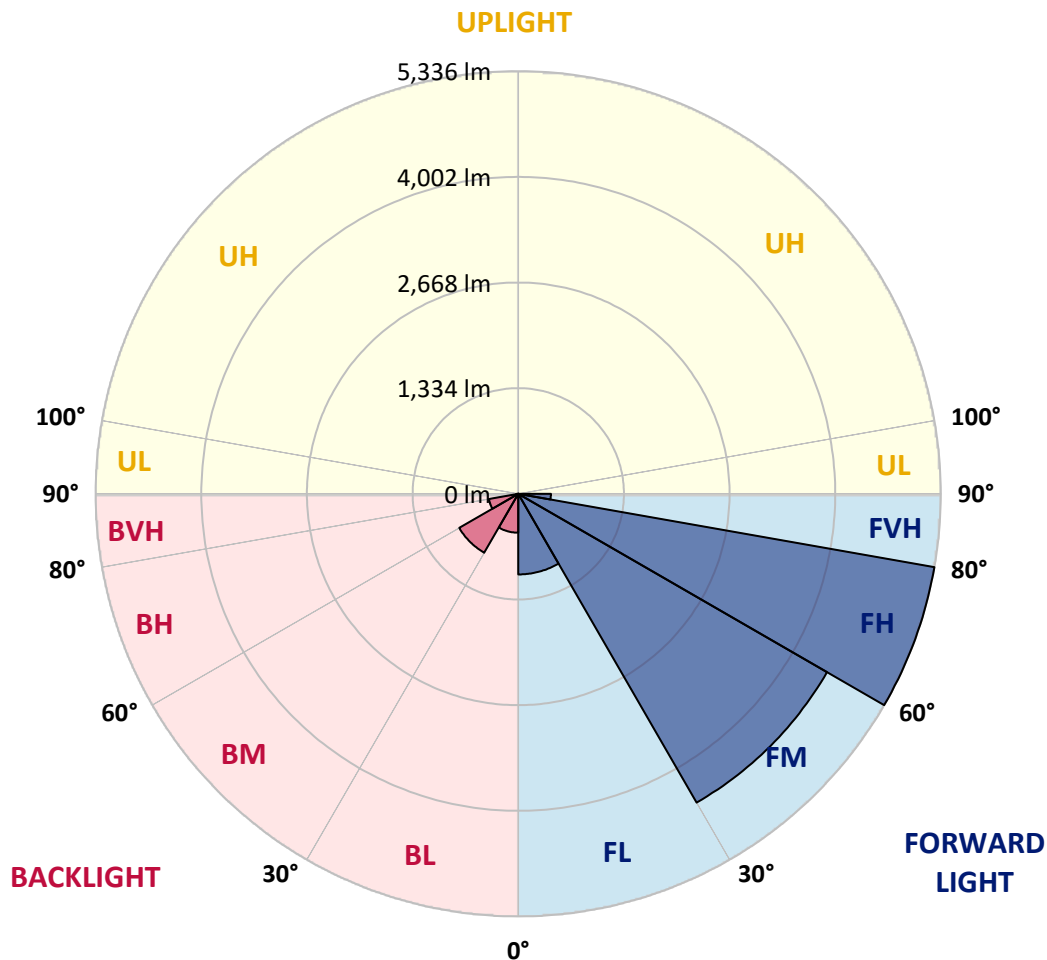
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.7	7.8			
FM (30°-60°)	4502.3	34.6			
FH (60°-80°)	5336.4	41.0			G3/7500
FVH (80°-90°)	412.4	3.2			G3/500
BL (0°-30°)	491.1	3.8	B1/500		
BM (30°-60°)	859.2	6.6	B1/1000		
BH (60°-80°)	376.2	2.9	B1/500		G1/500
BVH (80°-90°)	23.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2
2.5°	2379.1	2390.9	2385.0	2376.9	2371.8	2366.6	2359.3	2338.0	2321.0	2302.6	2274.0
5°	2396.8	2404.1	2399.0	2388.7	2376.9	2371.8	2357.8	2329.8	2302.6	2271.8	2229.1
7.5°	2386.4	2389.4	2383.5	2371.0	2360.7	2351.2	2335.0	2304.1	2271.0	2233.5	2177.7
10°	2349.7	2360.7	2360.7	2350.4	2340.2	2335.0	2318.9	2289.4	2259.3	2216.6	2150.4
12.5°	2319.6	2331.3	2340.9	2338.0	2337.2	2337.2	2324.7	2302.6	2267.3	2226.9	2148.2
15°	2299.0	2312.9	2333.5	2345.3	2352.6	2354.9	2349.7	2330.6	2294.6	2247.5	2157.1
17.5°	2294.6	2311.5	2349.0	2374.7	2393.8	2393.1	2391.6	2365.1	2325.4	2276.9	2168.1
20°	2314.4	2336.5	2388.7	2429.1	2457.1	2451.9	2443.8	2409.2	2362.9	2308.5	2178.4
22.5°	2374.0	2396.8	2454.1	2498.2	2525.4	2525.4	2501.1	2455.6	2406.3	2345.3	2192.4
25°	2459.2	2484.2	2545.3	2590.1	2602.6	2593.1	2568.8	2513.7	2457.1	2398.3	2221.8
27.5°	2563.6	2593.8	2650.4	2687.9	2684.2	2676.8	2651.9	2581.3	2524.7	2471.0	2271.8
30°	2693.8	2715.8	2774.6	2783.5	2770.3	2768.8	2733.5	2662.9	2610.0	2568.8	2343.0
32.5°	2816.5	2836.4	2883.5	2887.2	2863.6	2866.6	2833.4	2768.8	2738.6	2723.9	2462.9
35°	2946.7	2957.0	2997.4	2993.0	2977.6	2975.3	2962.1	2900.4	2909.9	2936.4	2632.8
37.5°	3055.5	3076.1	3098.9	3102.6	3101.8	3109.1	3118.0	3088.5	3143.7	3226.8	2855.5
40°	3155.5	3173.1	3206.9	3218.7	3247.4	3262.1	3292.2	3293.0	3420.1	3556.9	3129.7
42.5°	3223.1	3253.3	3316.5	3337.8	3407.6	3451.8	3496.6	3544.4	3729.0	3904.7	3453.3
45°	3281.9	3321.6	3426.8	3493.0	3587.8	3641.4	3736.3	3836.3	4101.7	4331.8	3781.9
47.5°	3370.9	3406.2	3526.8	3643.6	3787.0	3848.8	3990.6	4139.9	4486.9	4739.1	4096.5
50°	3494.4	3515.7	3638.5	3828.9	4012.0	4091.4	4278.9	4494.3	4898.6	5141.3	4373.0
52.5°	3652.5	3661.3	3759.1	4012.7	4253.9	4352.4	4600.9	4852.3	5258.9	5490.5	4592.1
55°	3839.2	3824.5	3901.0	4207.5	4530.3	4658.9	4925.9	5214.8	5664.0	5772.8	4751.6
57.5°	4023.8	4001.0	4062.0	4444.3	4871.4	5026.5	5337.6	5588.3	6025.7	6036.7	4863.4
60°	4219.4	4202.4	4275.2	4722.2	5289.8	5473.6	5761.0	5975.7	6375.7	6220.5	4881.0
62.5°	4420.0	4392.8	4496.5	5034.6	5761.0	5927.9	6206.5	6387.4	6719.0	6288.9	4711.2
65°	4614.8	4602.3	4762.6	5405.9	6297.7	6487.4	6758.0	6880.8	6994.0	6185.9	4289.9
67.5°	4822.2	4847.2	5103.0	5901.5	6997.7	7235.9	7527.7	7412.3	7072.6	5698.5	3612.8
70°	5138.3	5154.5	5550.1	6550.7	7899.7	8187.2	8328.4	7601.2	6693.2	4772.9	2715.8
72.5°	5274.3	5345.6	5949.2	7232.2	8924.6	9100.3	8597.4	7180.0	5575.7	3242.2	1427.0
73°	5244.2	5329.5	5967.6	7335.8	9004.7	9189.3	8540.1	6963.1	5183.1	2792.3	1223.4
75°	4868.5	4973.6	5728.7	7249.1	8848.8	8738.6	7618.1	5934.5	3502.5	1269.7	557.3
77.5°	3841.4	3871.5	4539.1	5853.6	6968.2	6763.9	5701.5	3709.1	1430.7	472.0	316.1
80°	1927.0	2038.0	2558.5	3353.3	4659.7	4592.8	3598.8	1754.2	596.3	277.2	209.5
82.5°	927.1	1005.8	1246.1	1635.1	2574.7	2513.7	1782.1	958.7	378.7	161.8	123.5
85°	597.0	655.8	793.3	780.0	1058.7	1010.9	800.6	725.6	224.3	84.6	86.1
87.5°	394.1	431.6	517.6	413.9	385.2	348.5	353.6	408.8	44.1	32.3	11.7
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°	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2	2287.2
2.5°	2262.2	2252.7	2221.1	2190.1	2160.8	2132.8	2114.4	2090.1	2074.0	2078.4	2085.1
5°	2205.6	2184.3	2128.4	2074.0	2022.6	1961.5	1912.2	1872.5	1842.4	1831.4	1829.2
7.5°	2146.0	2110.0	2029.8	1936.5	1849.1	1773.3	1685.8	1642.4	1591.7	1574.1	1568.2
10°	2110.0	2061.5	1949.0	1818.9	1687.3	1561.5	1466.7	1389.5	1319.7	1306.4	1299.9
12.5°	2099.7	2035.8	1884.3	1716.7	1541.7	1387.3	1246.9	1145.5	1077.8	1062.4	1039.6
15°	2093.8	2014.4	1824.0	1613.8	1391.7	1203.5	1055.7	937.4	875.6	834.4	835.2
17.5°	2088.7	1990.2	1756.4	1501.2	1262.4	1045.5	882.2	775.6	719.0	696.9	694.8
20°	2081.4	1961.5	1678.4	1382.9	1114.6	901.4	753.6	674.2	636.0	617.6	616.8
22.5°	2078.4	1933.5	1602.0	1262.4	983.7	790.4	668.3	612.4	588.2	575.7	575.7
25°	2085.8	1913.7	1521.8	1147.6	867.6	695.5	609.5	571.3	557.3	550.7	548.5
27.5°	2108.5	1904.9	1442.4	1032.9	760.9	630.8	569.8	543.3	533.0	527.9	528.6
30°	2151.9	1904.2	1364.5	919.7	681.5	581.5	538.2	519.8	511.7	508.8	508.0
32.5°	2221.8	1920.3	1288.0	826.4	614.7	540.3	508.8	495.6	491.9	489.6	488.9
35°	2340.2	1966.0	1212.3	741.1	563.1	503.6	480.8	474.2	469.1	471.3	472.0
37.5°	2499.6	2044.6	1140.3	674.2	524.2	476.4	457.3	451.4	448.5	450.7	452.9
40°	2713.6	2157.8	1080.0	620.5	496.3	453.6	436.7	431.6	428.6	432.3	433.0
42.5°	2949.6	2288.7	1030.0	578.6	473.5	434.5	418.4	412.5	410.2	412.5	413.2
45°	3192.2	2440.8	1004.3	548.5	454.4	420.5	403.6	397.0	391.9	390.4	392.6
47.5°	3431.2	2573.2	1003.6	530.1	438.9	408.0	389.6	382.3	375.7	372.0	371.3
50°	3626.0	2678.3	1021.2	522.0	425.7	394.1	375.7	368.3	359.5	352.2	353.6
52.5°	3773.0	2746.7	1029.3	518.3	418.4	379.4	361.0	354.4	344.1	334.5	334.5
55°	3867.9	2762.9	1009.4	514.7	412.5	363.9	344.1	338.2	327.9	318.4	318.4
57.5°	3900.2	2712.9	938.1	505.8	406.5	350.7	327.1	322.0	313.9	304.4	302.9
60°	3825.3	2543.8	813.1	479.4	394.8	336.7	308.8	306.5	303.6	295.6	294.8
62.5°	3536.3	2185.0	677.1	444.8	375.0	322.0	291.9	295.6	297.8	293.3	292.6
65°	3055.5	1774.0	578.6	397.0	348.5	301.5	273.5	283.1	288.9	288.9	287.4
67.5°	2478.4	1362.3	487.4	355.9	315.4	273.5	252.9	260.3	264.7	263.2	266.8
70°	1761.5	922.7	397.0	308.8	273.5	241.9	226.4	226.4	223.5	222.1	222.1
72.5°	854.3	527.1	322.0	258.1	233.0	206.6	194.1	188.9	183.1	182.4	178.7
73°	713.9	472.7	307.3	248.5	223.5	201.5	187.5	179.4	175.7	172.8	172.0
75°	434.5	358.8	256.6	209.5	190.4	173.5	161.0	153.6	149.9	147.8	147.0
77.5°	286.0	267.6	199.3	160.3	145.6	135.3	130.1	122.8	120.6	117.6	117.6
80°	213.2	204.4	142.7	113.2	104.4	95.6	94.1	92.6	86.8	83.1	81.6
82.5°	137.5	145.6	97.0	75.7	66.2	58.8	59.6	61.8	55.9	50.7	49.3
85°	97.8	105.2	58.8	34.5	28.0	24.3	27.2	24.3	25.0	19.9	16.2
87.5°	16.2	28.0	10.3	4.4	2.2	1.5	0.0	0.0	0.0	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)