

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: P652283

Luminaire Tested: **GALN-SA3B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652283
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-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 13983.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

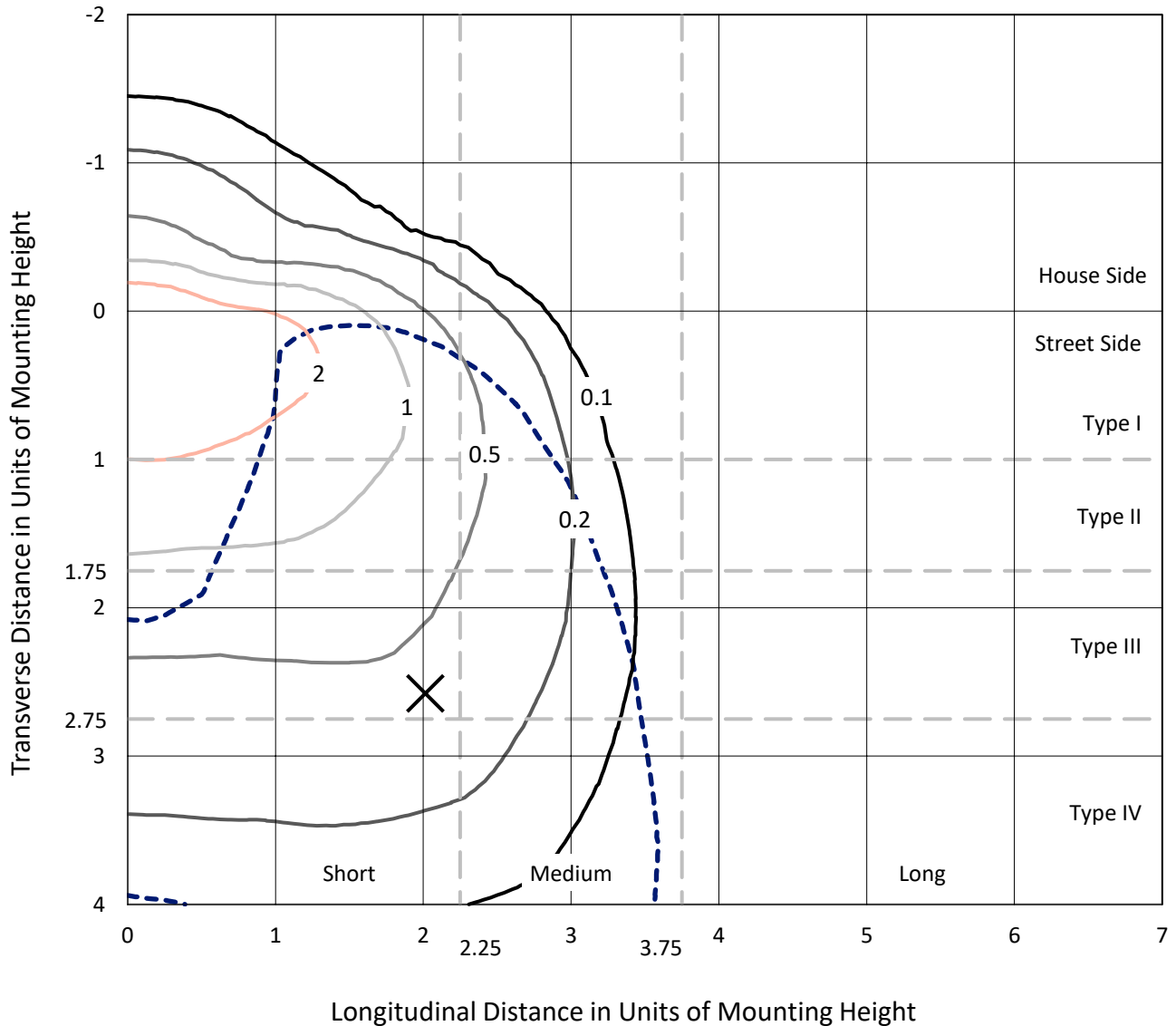
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

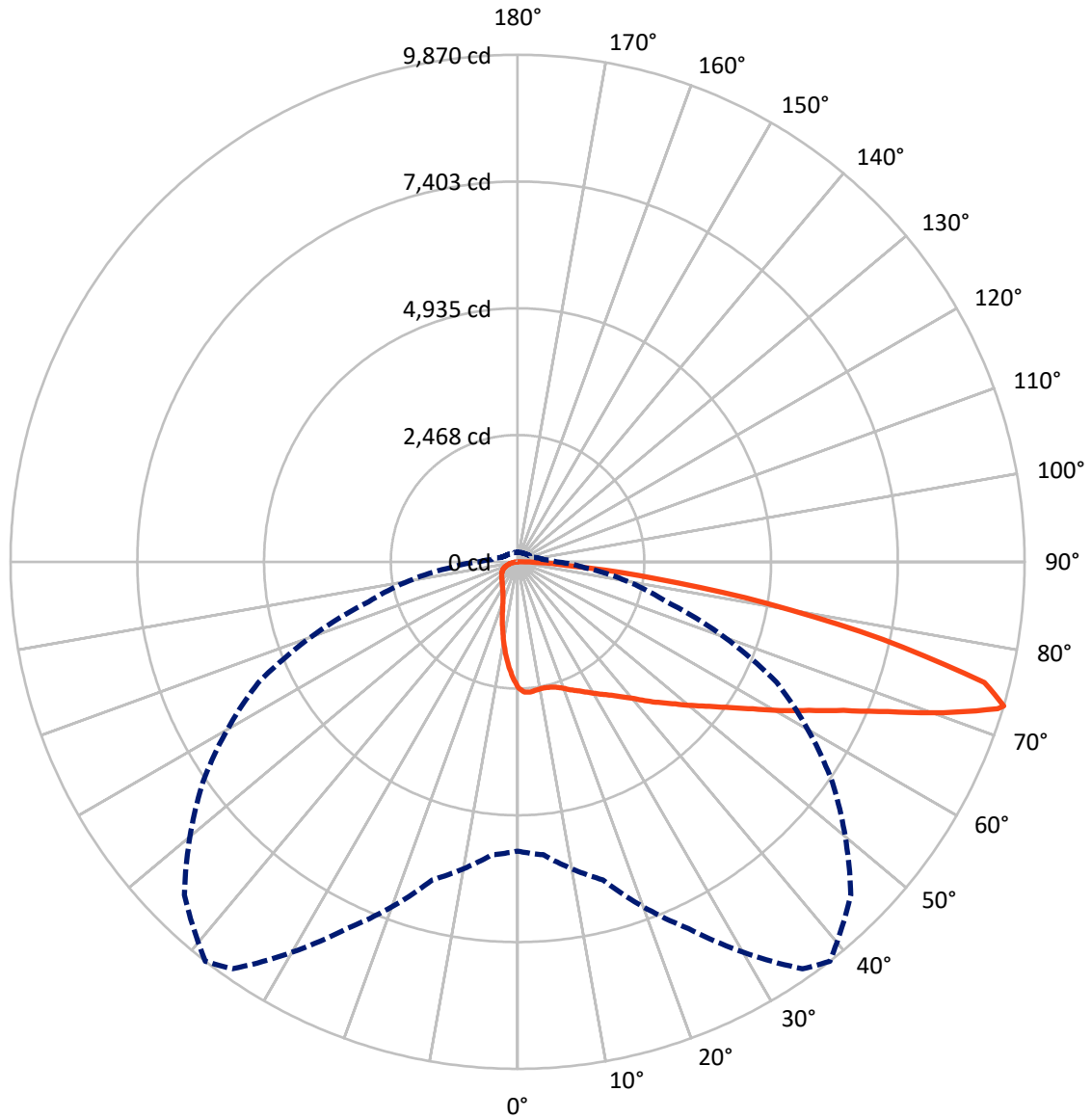
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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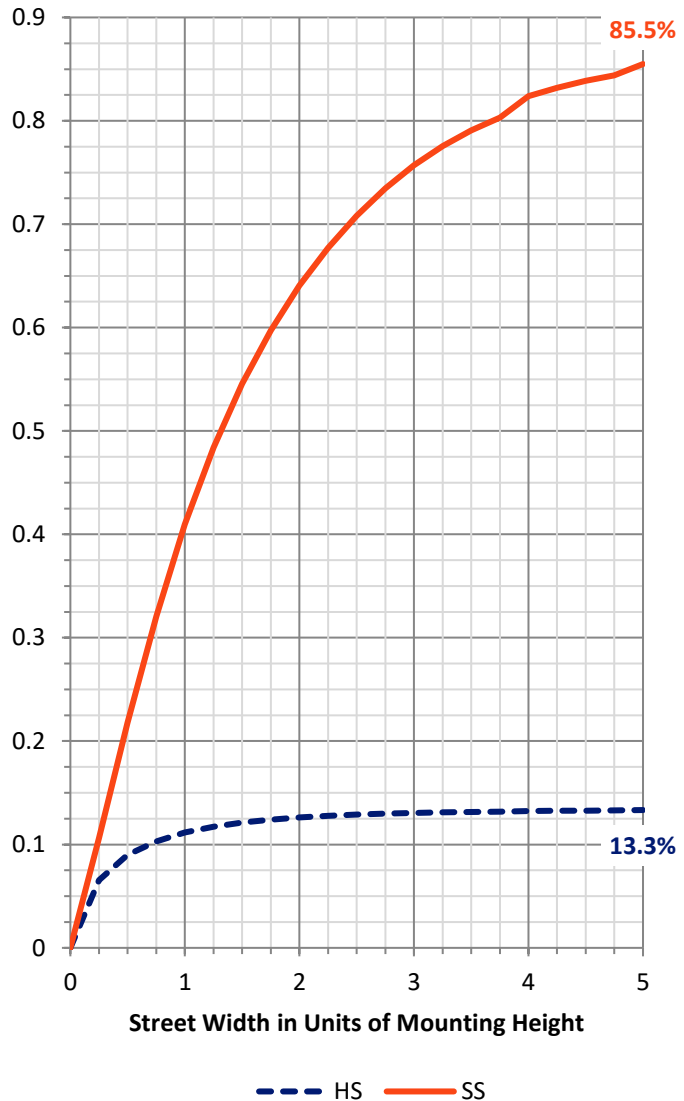
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.8	0.0	1879.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12103.5	0.0	12103.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	13983.3	0.0	13983.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.5
10°-20°	549.9	3.9
20°-30°	856.3	6.1
30°-40°	1256.0	9.0
40°-50°	1863.1	13.3
50°-60°	2639.6	18.9
60°-70°	3348.4	23.9
70°-80°	2787.3	19.9
80°-90°	468.3	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°	13983.3	100.0
0°-180°	13983.3	100.0

Coefficient of Utilization



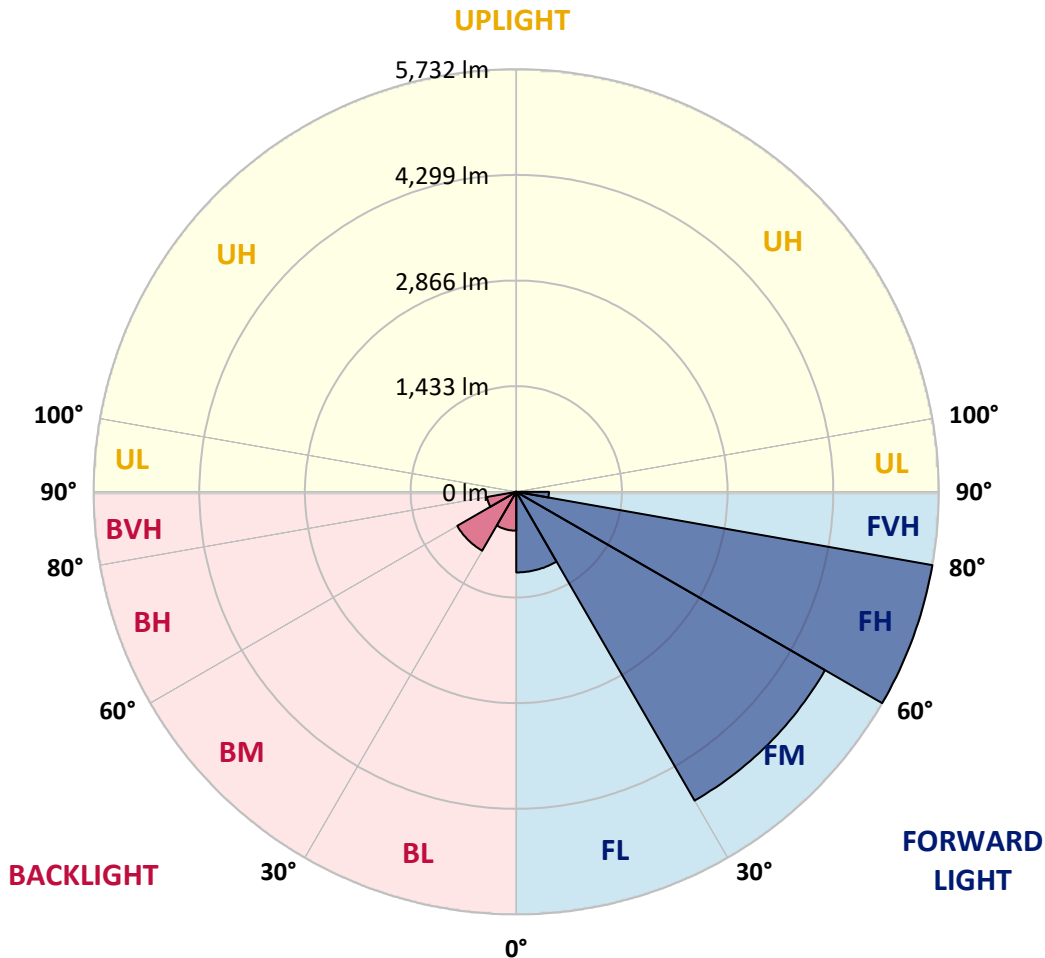
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.1	7.8			
FM (30°-60°)	4835.8	34.6			
FH (60°-80°)	5731.7	41.0			G3/7500
FVH (80°-90°)	442.9	3.2			G3/500
BL (0°-30°)	527.5	3.8	B2/1000		
BM (30°-60°)	922.9	6.6	B1/1000		
BH (60°-80°)	404.0	2.9	B1/500		G1/500
BVH (80°-90°)	25.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6
2.5°	2555.4	2568.0	2561.7	2552.9	2547.5	2541.9	2534.0	2511.1	2493.0	2473.2	2442.4
5°	2574.3	2582.2	2576.7	2565.6	2552.9	2547.5	2532.4	2502.4	2473.2	2440.1	2394.2
7.5°	2563.2	2566.4	2560.1	2546.6	2535.6	2525.4	2507.9	2474.8	2439.2	2399.0	2339.0
10°	2523.8	2535.6	2535.6	2524.5	2513.5	2507.9	2490.6	2459.0	2426.6	2380.8	2309.7
12.5°	2491.4	2504.0	2514.3	2511.1	2510.3	2510.3	2496.9	2473.2	2435.3	2391.9	2307.4
15°	2469.3	2484.2	2506.3	2519.0	2526.9	2529.3	2523.8	2503.2	2464.6	2414.0	2316.9
17.5°	2464.6	2482.7	2523.0	2550.6	2571.1	2570.3	2568.8	2540.3	2497.7	2445.5	2328.7
20°	2485.8	2509.5	2565.6	2609.0	2639.1	2633.5	2624.8	2587.7	2538.0	2479.5	2339.7
22.5°	2549.8	2574.3	2635.9	2683.3	2712.5	2712.5	2686.4	2637.5	2584.6	2519.0	2354.8
25°	2641.4	2668.2	2733.8	2781.9	2795.4	2785.1	2759.1	2699.9	2639.1	2575.9	2386.3
27.5°	2753.5	2785.9	2846.7	2887.0	2883.0	2875.1	2848.3	2772.5	2711.7	2654.0	2440.1
30°	2893.3	2917.0	2980.2	2989.7	2975.5	2973.9	2935.9	2860.2	2803.3	2759.1	2516.6
32.5°	3025.2	3046.5	3097.1	3101.0	3075.7	3078.9	3043.3	2973.9	2941.5	2925.7	2645.4
35°	3164.9	3176.0	3219.4	3214.7	3198.2	3195.7	3181.5	3115.2	3125.5	3153.9	2827.8
37.5°	3281.8	3304.0	3328.4	3332.4	3331.5	3339.4	3348.9	3317.3	3376.6	3465.8	3067.0
40°	3389.2	3408.2	3444.5	3457.1	3488.0	3503.7	3536.1	3536.9	3673.5	3820.4	3361.6
42.5°	3461.9	3494.3	3562.1	3585.0	3660.0	3707.5	3755.7	3807.0	4005.2	4193.9	3709.1
45°	3525.1	3567.7	3680.6	3751.7	3853.5	3911.2	4013.1	4120.5	4405.5	4652.7	4062.0
47.5°	3620.6	3658.5	3788.0	3913.5	4067.5	4133.9	4286.2	4446.5	4819.3	5090.2	4399.9
50°	3753.2	3776.2	3908.0	4112.6	4309.2	4394.5	4595.8	4827.2	5261.5	5522.1	4696.9
52.5°	3923.0	3932.5	4037.6	4310.0	4569.0	4674.8	4941.7	5211.8	5648.4	5897.2	4932.2
55°	4123.6	4107.8	4189.9	4519.2	4865.9	5004.0	5290.7	5601.1	6083.5	6200.4	5103.6
57.5°	4321.8	4297.3	4362.9	4773.5	5232.3	5398.9	5732.9	6002.2	6472.1	6483.9	5223.6
60°	4531.9	4513.7	4591.9	5072.0	5681.6	5879.0	6187.7	6418.3	6847.9	6681.3	5242.5
62.5°	4747.4	4718.2	4829.5	5407.5	6187.7	6367.0	6666.3	6860.5	7216.7	6754.7	5060.1
65°	4956.7	4943.2	5115.4	5806.3	6764.2	6967.9	7258.6	7390.5	7512.1	6644.2	4607.7
67.5°	5179.4	5206.2	5481.0	6338.6	7516.0	7771.8	8085.3	7961.3	7596.5	6120.6	3880.4
70°	5518.9	5536.3	5961.2	7035.9	8484.8	8793.7	8945.3	8164.3	7189.0	5126.5	2917.0
72.5°	5665.0	5741.6	6389.9	7767.9	9585.6	9774.4	9234.3	7711.8	5988.8	3482.4	1532.7
73°	5632.7	5724.3	6409.7	7879.2	9671.8	9870.0	9172.7	7478.8	5567.1	2999.1	1314.0
75°	5229.1	5342.0	6153.0	7786.1	9504.3	9385.9	8182.4	6374.1	3762.0	1363.8	598.5
77.5°	4125.9	4158.3	4875.4	6287.2	7484.4	7264.9	6123.8	3983.8	1536.7	507.0	339.5
80°	2069.7	2189.0	2748.1	3601.7	5004.9	4933.0	3865.4	1884.1	640.4	297.7	225.1
82.5°	995.7	1080.3	1338.5	1756.2	2765.4	2699.9	1914.1	1029.7	406.7	173.8	132.6
85°	641.2	704.3	852.0	837.8	1137.1	1085.8	859.9	779.4	240.9	90.8	92.4
87.5°	423.3	463.6	555.9	444.6	413.8	374.3	379.8	439.1	47.3	34.7	12.6
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°	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6	2456.6
2.5°	2429.8	2419.6	2385.6	2352.4	2320.8	2290.8	2271.0	2245.0	2227.6	2232.4	2239.5
5°	2369.0	2346.1	2286.1	2227.6	2172.4	2106.8	2053.9	2011.3	1978.9	1967.0	1964.7
7.5°	2305.0	2266.3	2180.2	2080.0	1986.0	1904.7	1810.7	1764.1	1709.6	1690.7	1684.4
10°	2266.3	2214.2	2093.4	1953.6	1812.3	1677.2	1575.4	1492.4	1417.4	1403.2	1396.1
12.5°	2255.2	2186.6	2023.9	1843.9	1655.9	1490.1	1339.3	1230.3	1157.6	1141.1	1116.6
15°	2248.9	2163.6	1959.1	1733.3	1494.8	1292.7	1133.9	1006.8	940.5	896.3	897.1
17.5°	2243.5	2137.6	1886.5	1612.4	1355.9	1122.9	947.6	833.1	772.3	748.6	746.2
20°	2235.5	2106.8	1802.8	1485.4	1197.2	968.2	809.4	724.1	683.1	663.3	662.5
22.5°	2232.4	2076.8	1720.7	1355.9	1056.5	848.9	717.8	657.7	631.8	618.3	618.3
25°	2240.3	2055.5	1634.6	1232.7	931.8	747.0	654.6	613.6	598.5	591.5	589.1
27.5°	2264.7	2046.0	1549.3	1109.4	817.3	677.5	612.0	583.6	572.5	567.0	567.8
30°	2311.3	2045.2	1465.6	987.8	732.0	624.6	578.0	558.3	549.6	546.5	545.6
32.5°	2386.3	2062.6	1383.4	887.6	660.2	580.4	546.5	532.3	528.3	525.9	525.1
35°	2513.5	2111.6	1302.1	796.0	604.8	540.9	516.5	509.3	503.8	506.2	507.0
37.5°	2684.8	2196.0	1224.7	724.1	563.0	511.7	491.1	484.8	481.7	484.1	486.4
40°	2914.7	2317.6	1160.0	666.5	533.0	487.2	469.0	463.6	460.4	464.3	465.1
42.5°	3168.1	2458.2	1106.3	621.5	508.6	466.7	449.3	443.0	440.6	443.0	443.8
45°	3428.7	2621.6	1078.7	589.1	488.0	451.7	433.5	426.4	420.9	419.3	421.7
47.5°	3685.3	2763.8	1077.9	569.4	471.5	438.2	418.5	410.7	403.5	399.6	398.8
50°	3894.6	2876.7	1096.8	560.7	457.3	423.3	403.5	395.6	386.1	378.3	379.8
52.5°	4052.5	2950.1	1105.5	556.7	449.3	407.5	387.7	380.6	369.5	359.3	359.3
55°	4154.4	2967.6	1084.2	552.8	443.0	390.9	369.5	363.2	352.2	342.0	342.0
57.5°	4189.1	2913.8	1007.6	543.3	436.6	376.7	351.4	345.9	337.2	326.9	325.3
60°	4108.6	2732.2	873.4	514.9	424.0	361.6	331.7	329.3	326.1	317.5	316.6
62.5°	3798.3	2346.9	727.3	477.8	402.8	345.9	313.5	317.5	319.8	315.0	314.3
65°	3281.8	1905.5	621.5	426.4	374.3	323.8	293.8	304.0	310.3	310.3	308.7
67.5°	2661.9	1463.3	523.5	382.2	338.8	293.8	271.6	279.5	284.3	282.7	286.6
70°	1892.0	991.0	426.4	331.7	293.8	259.8	243.2	243.2	240.0	238.5	238.5
72.5°	917.6	566.2	345.9	277.2	250.3	221.9	208.5	202.9	196.6	195.9	191.9
73°	766.7	507.7	330.1	266.9	240.0	216.4	201.3	192.7	188.7	185.6	184.8
75°	466.7	385.3	275.6	225.1	204.5	186.4	172.9	165.0	161.1	158.7	157.9
77.5°	307.2	287.5	214.0	172.2	156.3	145.3	139.8	131.9	129.5	126.3	126.3
80°	229.0	219.5	153.2	121.6	112.1	102.7	101.1	99.5	93.2	89.2	87.6
82.5°	147.7	156.3	104.2	81.3	71.1	63.2	64.0	66.4	60.0	54.5	52.9
85°	105.0	112.9	63.2	37.1	30.0	26.1	29.2	26.1	26.8	21.4	17.4
87.5°	17.4	30.0	11.0	4.7	2.4	1.6	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)