

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: P647332

Luminaire Tested: **GALN-SA3D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14873.9 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

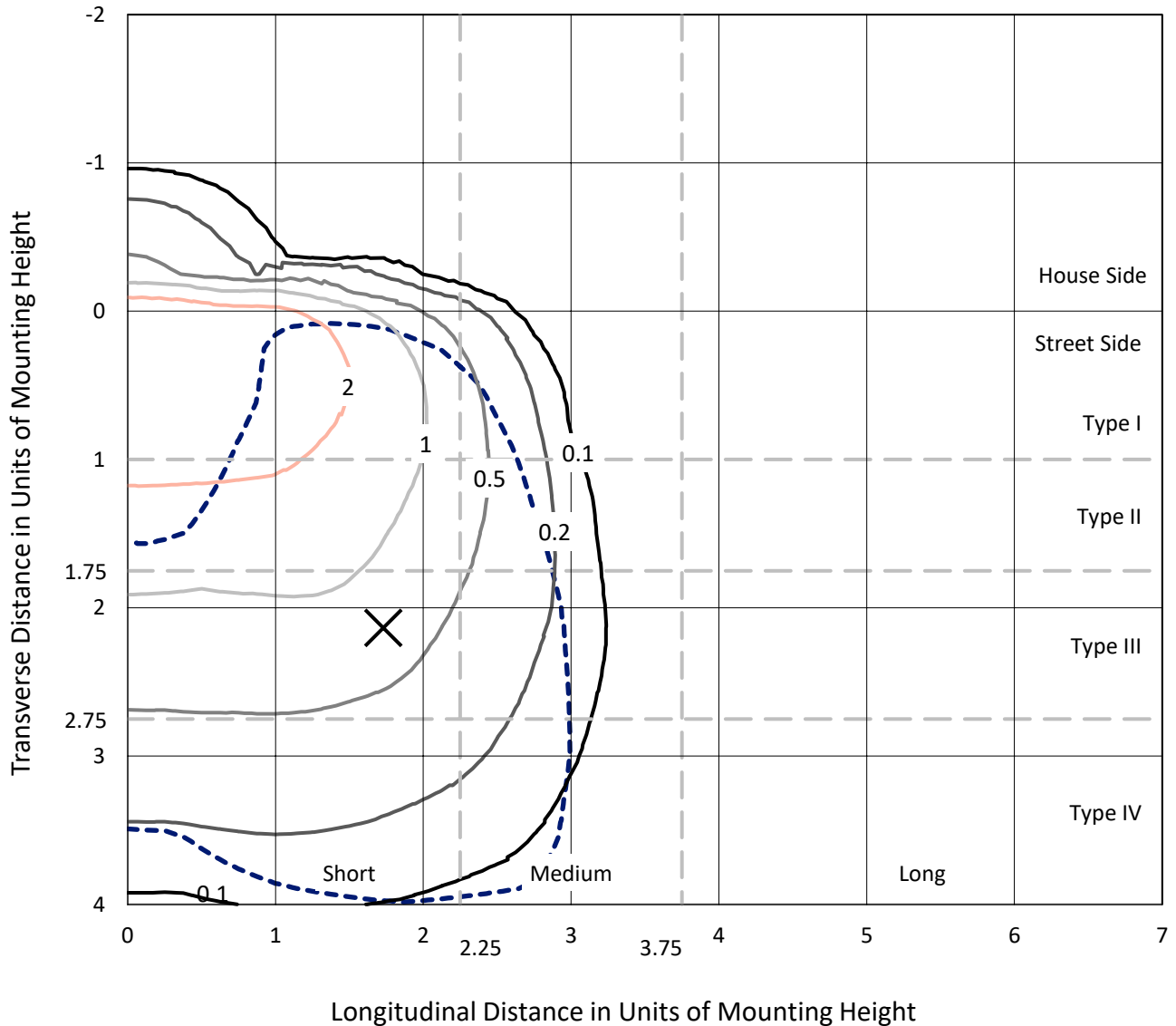
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647332
 CATALOG NUMBER: GALN-SA3D-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

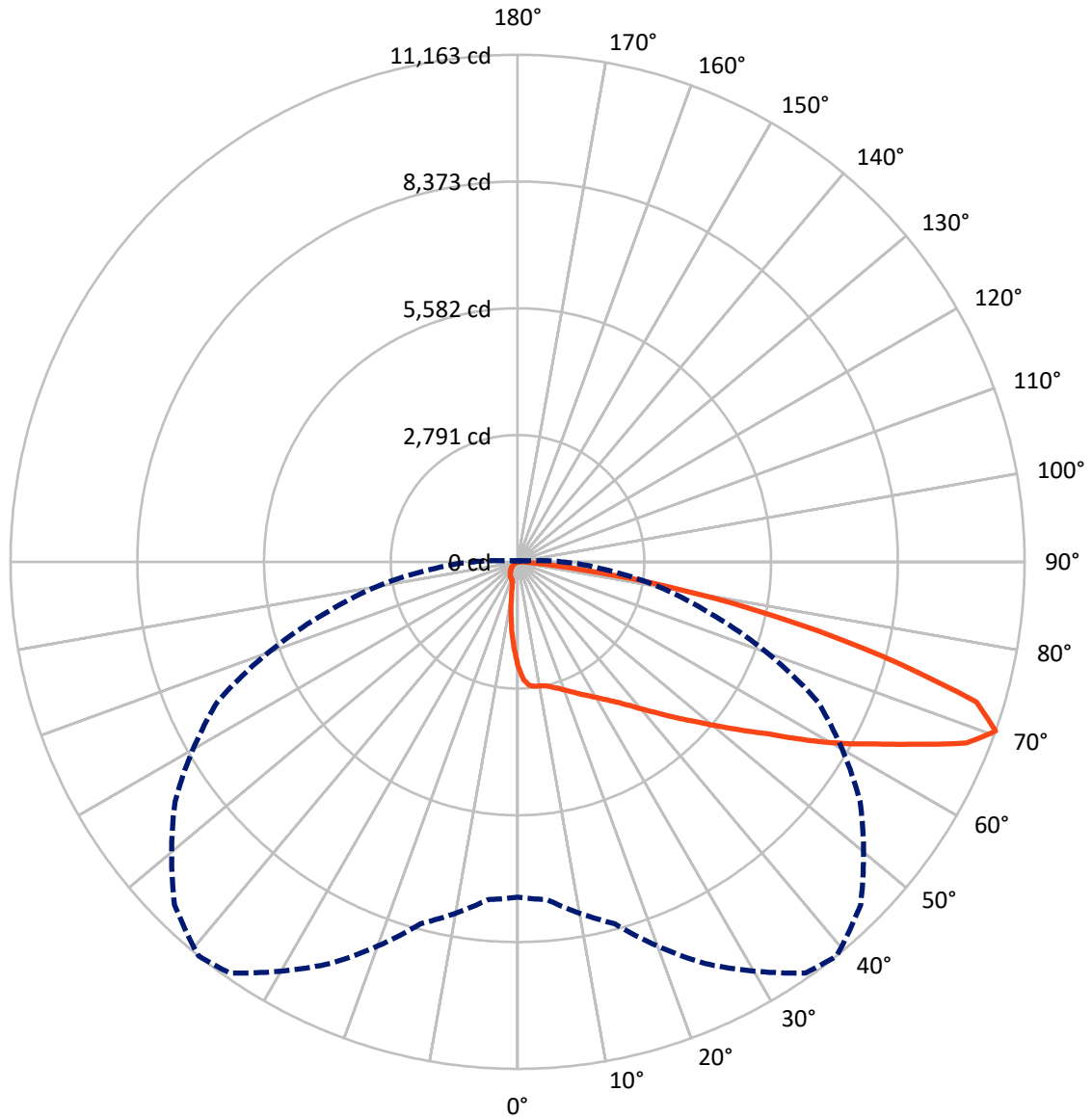
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P647332
CATALOG NUMBER: GALN-SA3D-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P647332
 CATALOG NUMBER: GALN-SA3D-835-U-SL4-HSS

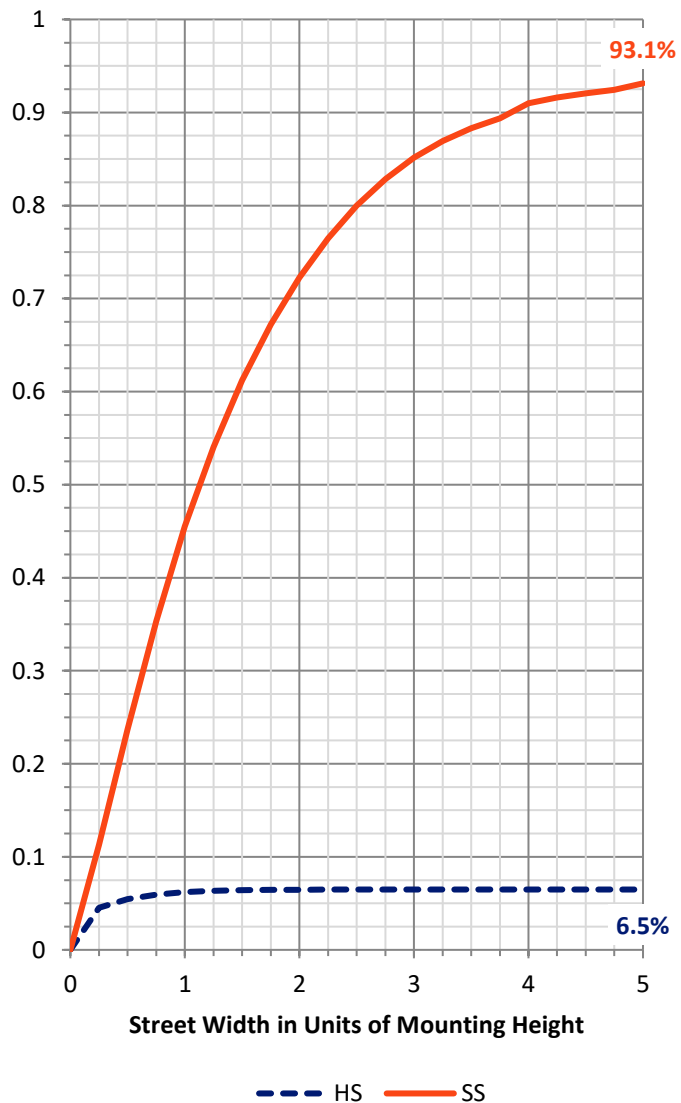
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.8	0.0	969.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	13904.0	0.0	13904.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	14873.9	0.0	14873.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.3
10°-20°	514.4	3.5
20°-30°	861.8	5.8
30°-40°	1336.5	9.0
40°-50°	2118.0	14.2
50°-60°	3104.7	20.9
60°-70°	3979.4	26.8
70°-80°	2500.6	16.8
80°-90°	260.5	1.8
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°	14873.9	100.0
0°-180°	14873.9	100.0

Coefficient of Utilization

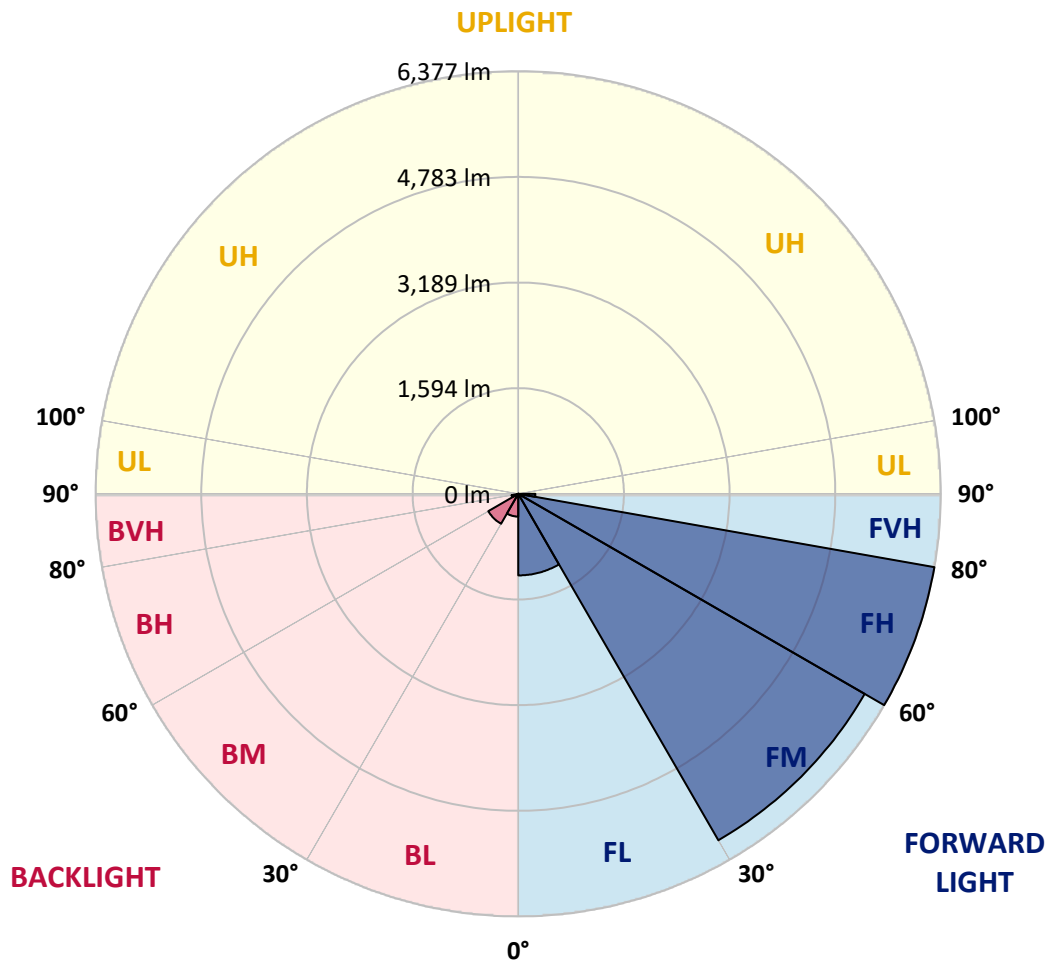


REPORT NUMBER: P647332
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.7	8.3			
FM (30°-60°)	6037.3	40.6			
FH (60°-80°)	6377.4	42.9			G3/7500
FVH (80°-90°)	258.6	1.7			G3/500
BL (0°-30°)	343.4	2.3	B1/500		
BM (30°-60°)	521.9	3.5	B1/1000		
BH (60°-80°)	102.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	0.0			G0/10
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





REPORT NUMBER: P647332

CATALOG NUMBER: GALN-SA3D-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2681.6	2672.7	2660.6	2646.7	2606.7	2599.7	2575.7	2524.7	2463.8	2413.8	2344.9
5°	2808.6	2813.6	2804.6	2779.6	2750.6	2733.6	2703.6	2624.7	2545.7	2444.8	2331.9
7.5°	2837.6	2847.5	2836.6	2812.6	2784.6	2766.6	2742.6	2674.6	2582.7	2467.8	2312.8
10°	2834.5	2846.6	2839.5	2817.5	2794.6	2777.6	2751.6	2697.7	2623.7	2502.8	2318.9
12.5°	2829.6	2845.6	2844.6	2833.6	2814.6	2801.6	2785.6	2737.6	2668.6	2553.8	2351.8
15°	2815.6	2835.6	2853.6	2862.6	2863.6	2863.6	2843.5	2792.6	2726.6	2620.7	2394.8
17.5°	2821.6	2844.6	2889.6	2915.5	2933.5	2931.6	2910.6	2855.6	2782.6	2689.7	2439.7
20°	2858.6	2889.6	2952.5	3004.5	3022.5	3016.5	2988.5	2924.5	2841.6	2748.6	2483.8
22.5°	2949.5	2977.5	3056.4	3117.4	3130.4	3114.5	3074.4	2987.5	2912.5	2812.6	2536.8
25°	3085.4	3118.5	3191.4	3237.4	3237.4	3228.4	3172.4	3070.5	2992.5	2901.6	2605.7
27.5°	3250.4	3278.3	3350.3	3391.3	3367.3	3341.3	3285.3	3162.4	3087.4	3013.5	2688.7
30°	3417.2	3435.3	3511.2	3529.2	3504.2	3471.3	3411.3	3288.4	3222.4	3165.4	2808.6
32.5°	3575.2	3614.2	3677.1	3673.1	3639.1	3623.2	3568.2	3437.3	3400.3	3394.3	2976.5
35°	3733.1	3763.1	3819.1	3833.1	3803.1	3800.1	3760.1	3663.2	3664.1	3703.1	3238.4
37.5°	3869.0	3896.1	3962.0	3993.0	3999.0	4014.0	3998.0	3934.0	4025.0	4131.9	3585.2
40°	3983.0	4021.0	4105.0	4158.9	4220.8	4275.9	4278.9	4292.9	4475.8	4659.6	4038.0
42.5°	4072.0	4124.9	4246.8	4346.8	4488.8	4558.7	4614.7	4691.7	4999.5	5274.4	4571.7
45°	4187.9	4248.9	4400.8	4557.7	4779.6	4894.5	4972.5	5178.4	5615.2	5990.0	5119.4
47.5°	4379.8	4411.8	4566.7	4795.6	5087.5	5251.3	5403.2	5715.1	6275.8	6611.7	5575.2
50°	4626.7	4647.7	4764.6	5082.5	5460.3	5676.1	5953.0	6319.8	6961.5	7127.4	5833.0
52.5°	4899.5	4906.5	4994.5	5398.3	5878.1	6149.9	6459.8	6912.6	7520.2	7495.3	6004.0
55°	5216.3	5206.4	5281.3	5741.1	6372.8	6683.6	7044.5	7519.2	8005.0	7756.1	6101.9
57.5°	5579.2	5552.2	5625.2	6195.9	7006.4	7378.3	7745.1	8043.0	8380.8	7975.0	6148.9
60°	5959.0	5905.0	5992.0	6706.6	7753.1	8105.9	8410.8	8490.7	8776.6	8148.9	6067.9
62.5°	6261.9	6262.8	6424.7	7250.3	8520.7	8829.6	8991.5	9063.5	9117.4	8110.9	5642.1
65°	6734.6	6750.6	7009.5	8005.0	9409.2	9677.2	9788.0	9554.2	9132.4	7639.2	5002.5
67.5°	7222.4	7273.4	7747.1	9044.4	10435.7	10651.6	10508.7	9649.1	8724.6	6562.7	3793.1
70°	7381.3	7465.3	8245.9	9760.1	11051.4	11163.4	10679.7	9206.4	7293.3	4387.8	1909.0
72.5°	6763.6	6899.6	7959.0	9499.2	10658.7	10561.7	9555.2	7721.1	4636.7	1666.1	582.7
75°	4769.6	4829.5	6614.7	7880.0	8572.7	8297.8	7268.4	4977.5	1907.1	467.8	199.9
77.5°	2462.8	2433.8	3934.0	5228.4	6113.9	5829.0	4759.6	2576.7	722.6	194.9	123.9
80°	1273.4	1294.4	1702.2	2739.6	3732.1	3434.2	2537.7	1194.4	384.8	108.0	95.0
82.5°	713.6	669.7	978.5	1196.4	1745.2	1368.3	973.5	845.6	168.0	65.0	90.0
85°	129.9	135.9	536.7	646.7	605.7	384.8	313.8	564.7	48.9	36.0	63.0
87.5°	2.0	2.0	104.0	185.9	117.9	53.9	99.0	81.0	10.0	14.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647332

CATALOG NUMBER: GALN-SA3D-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2309.8	2271.9	2200.9	2130.9	2042.0	1969.0	1920.1	1869.1	1817.1	1821.1	1833.1
5°	2269.8	2203.9	2064.0	1916.0	1774.1	1646.2	1520.3	1407.3	1361.3	1319.4	1321.3
7.5°	2229.9	2137.0	1932.1	1700.1	1485.3	1267.4	1109.4	979.5	910.6	858.6	843.6
10°	2211.9	2089.0	1811.1	1492.2	1187.4	949.5	746.6	640.7	558.7	532.8	539.7
12.5°	2219.9	2064.9	1702.2	1304.3	941.6	661.6	519.8	465.7	447.8	444.7	442.8
15°	2234.8	2047.9	1595.2	1096.4	691.6	491.7	436.8	426.8	424.8	422.8	423.8
17.5°	2254.9	2033.0	1481.3	901.5	530.7	429.8	413.8	408.8	407.8	407.8	407.8
20°	2274.8	2016.0	1354.4	727.6	442.8	405.8	395.8	392.8	391.8	391.8	390.8
22.5°	2297.9	2001.0	1225.4	571.7	407.8	388.8	379.8	377.8	376.8	375.8	375.8
25°	2330.8	1982.0	1088.4	467.8	385.8	372.8	363.8	361.8	360.8	356.8	357.8
27.5°	2374.8	1968.0	947.5	403.8	365.8	352.8	346.8	343.8	341.9	338.8	339.8
30°	2434.7	1956.0	797.6	368.8	342.8	331.8	325.8	323.8	321.8	318.8	318.8
32.5°	2538.7	1961.0	639.7	340.8	321.8	308.8	302.9	300.8	298.9	295.8	295.8
35°	2694.6	1990.0	511.8	316.8	296.8	283.8	277.9	277.9	274.8	270.8	269.9
37.5°	2949.5	2064.0	410.8	293.9	272.9	260.9	253.8	251.9	248.8	242.9	241.9
40°	3250.4	2178.9	345.9	270.8	250.9	238.9	232.9	226.9	218.9	212.9	211.9
42.5°	3628.2	2296.9	299.8	247.9	229.9	218.9	211.9	201.9	189.9	181.9	180.9
45°	4022.0	2404.8	268.9	226.9	209.9	200.9	192.9	176.9	161.9	151.9	151.0
47.5°	4315.8	2424.8	243.9	206.9	192.9	183.9	172.9	152.9	133.0	123.9	121.0
50°	4454.8	2327.9	217.9	186.9	175.9	165.9	151.9	129.0	107.0	95.9	94.0
52.5°	4503.7	2159.9	196.9	168.9	158.9	146.9	129.9	104.0	83.9	73.0	72.0
55°	4483.8	1948.0	177.9	151.9	138.9	125.0	108.0	82.9	61.9	53.0	51.0
57.5°	4378.8	1678.1	158.9	134.9	118.9	104.9	86.0	61.9	42.0	34.0	33.0
60°	4096.0	1310.4	139.9	116.0	100.9	86.0	68.0	44.0	26.0	19.0	19.0
62.5°	3618.2	972.5	121.9	96.9	85.0	69.0	48.0	28.0	14.0	10.0	9.0
65°	3023.5	717.6	101.9	82.0	70.9	53.9	34.0	17.0	7.0	3.0	2.0
67.5°	2110.0	442.8	85.0	66.9	57.9	39.0	21.0	7.0	3.0	0.0	0.0
70°	958.5	210.9	65.0	51.0	44.0	28.0	11.0	4.0	2.0	0.0	0.0
72.5°	297.9	111.0	46.0	37.0	30.0	18.0	6.0	3.0	2.0	0.0	0.0
75°	138.0	70.9	29.0	20.0	17.0	9.0	4.0	2.0	1.0	0.0	0.0
77.5°	103.0	55.0	17.0	11.0	9.0	6.0	3.0	2.0	1.0	0.0	0.0
80°	90.0	28.0	10.0	7.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
82.5°	81.0	14.0	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
85°	44.0	8.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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)