

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: P648347

Luminaire Tested: **GALN-SA3B-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13610.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

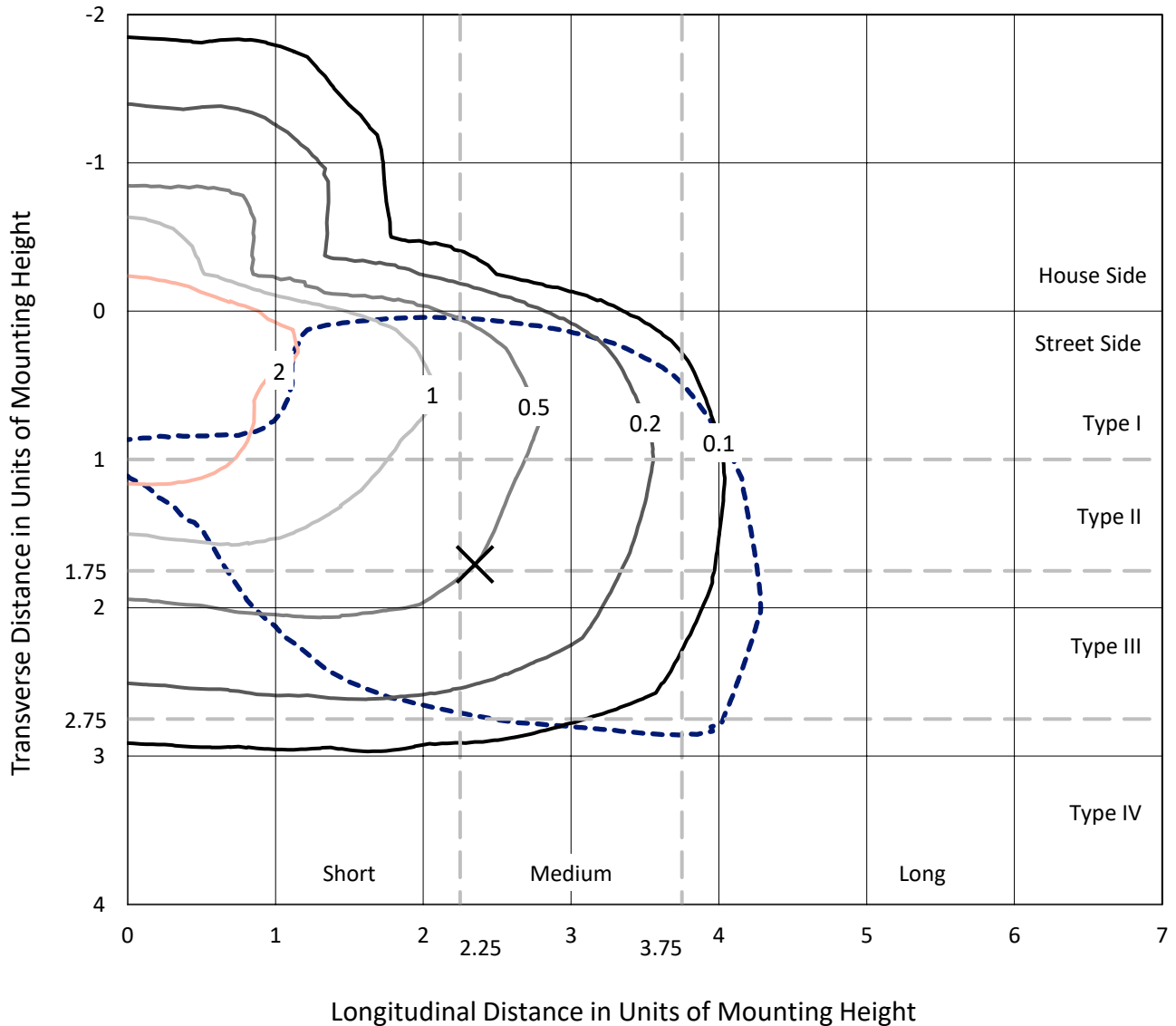
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648347
 CATALOG NUMBER: GALN-SA3B-835-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

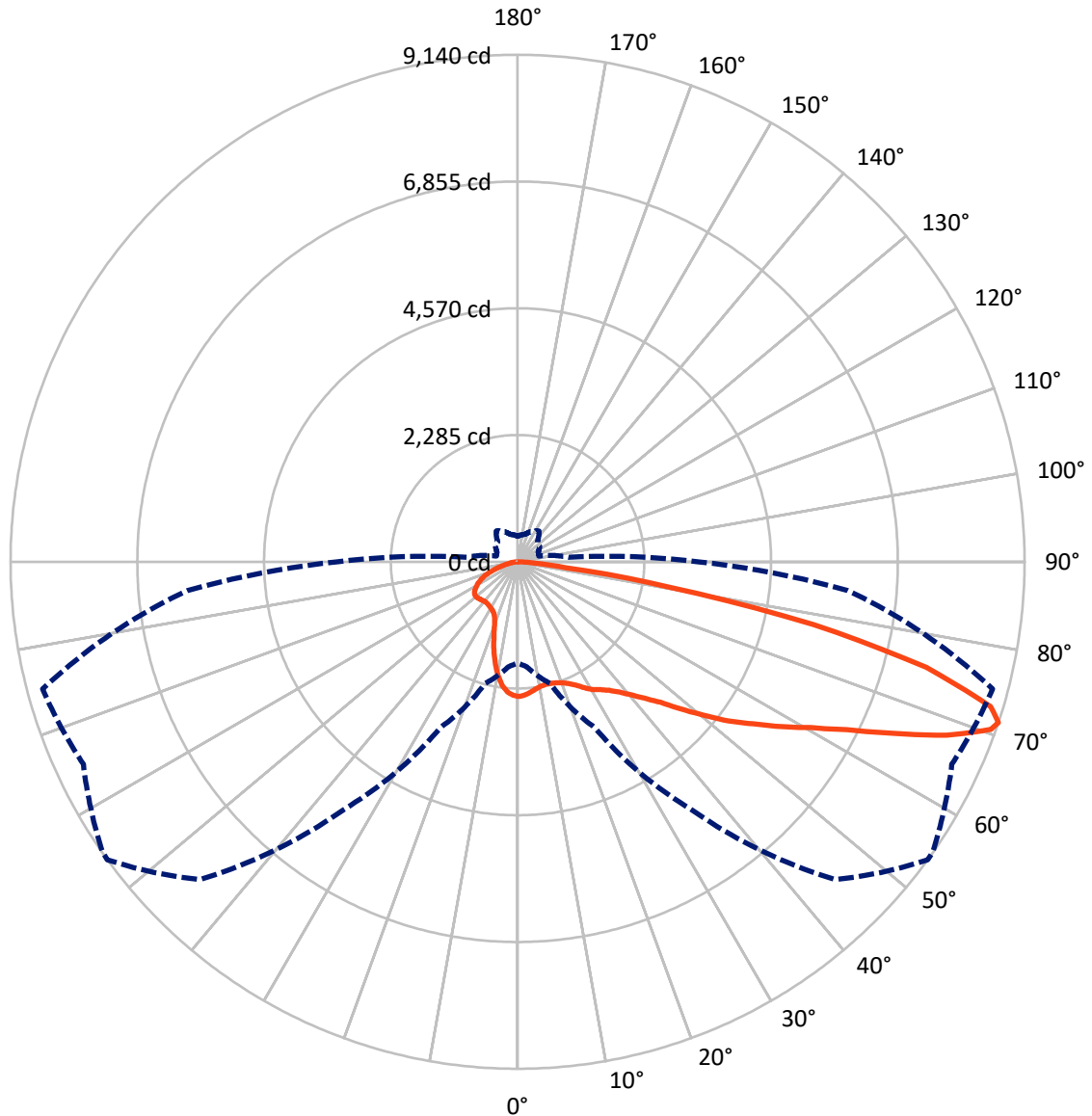
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P648347
CATALOG NUMBER: GALN-SA3B-835-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P648347
 CATALOG NUMBER: GALN-SA3B-835-U-T3R

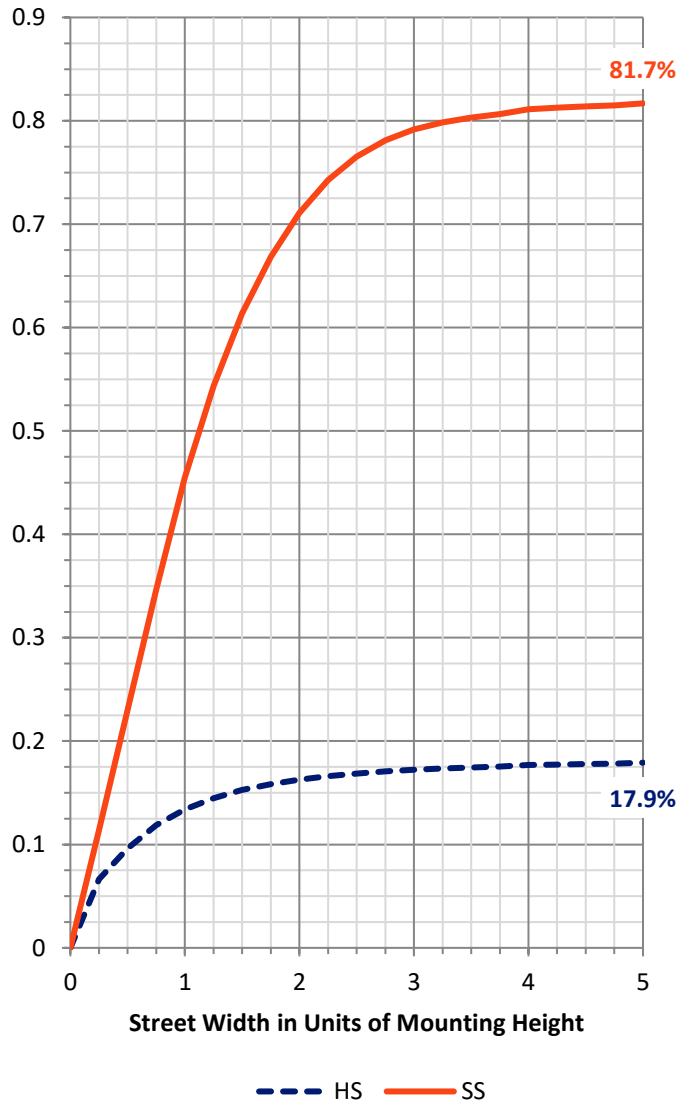
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2457.4	0.0	2457.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11153.5	0.0	11153.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	13610.9	0.0	13610.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.6
10°-20°	571.4	4.2
20°-30°	951.4	7.0
30°-40°	1406.9	10.3
40°-50°	1981.6	14.6
50°-60°	2653.5	19.5
60°-70°	3344.5	24.6
70°-80°	2284.3	16.8
80°-90°	200.9	1.5
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°	13610.9	100.0
0°-180°	13610.9	100.0

Coefficient of Utilization



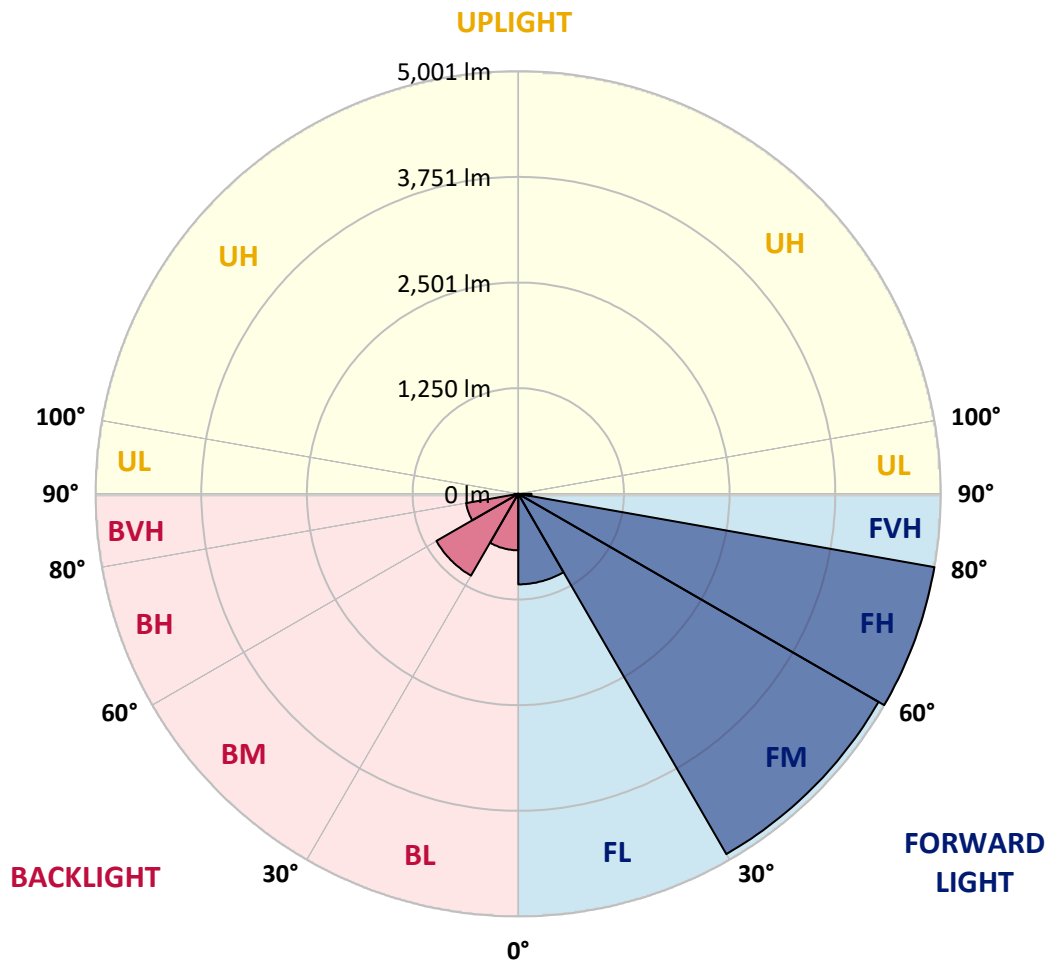
REPORT NUMBER: P648347
 CATALOG NUMBER: GALN-SA3B-835-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.4	7.9			
FM (30°-60°)	4923.9	36.2			
FH (60°-80°)	5001.2	36.7			G3/7500
FVH (80°-90°)	157.0	1.2			G2/225
BL (0°-30°)	667.9	4.9	B2/1000		
BM (30°-60°)	1118.0	8.2	B2/2500		
BH (60°-80°)	627.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	43.9	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-G3

Type IV Medium





REPORT NUMBER: P648347
 CATALOG NUMBER: GALN-SA3B-835-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2346.0	2357.1	2360.0	2367.4	2382.8	2395.3	2407.8	2406.3	2424.0	2431.3	2437.9
5°	2241.7	2244.5	2255.6	2270.3	2297.5	2332.1	2365.9	2366.6	2410.0	2444.5	2461.4
7.5°	2165.2	2174.7	2182.1	2197.6	2226.2	2263.7	2317.4	2321.8	2399.0	2467.3	2503.4
10°	2115.2	2126.2	2134.3	2153.4	2182.1	2224.0	2282.1	2290.2	2390.9	2503.4	2566.6
12.5°	2069.6	2080.7	2087.9	2113.0	2150.5	2202.0	2267.4	2277.0	2393.9	2545.3	2635.7
15°	2097.6	2106.3	2103.5	2110.8	2135.8	2194.6	2273.3	2282.8	2404.8	2585.7	2704.1
17.5°	2221.8	2229.1	2204.8	2177.0	2165.2	2208.5	2291.6	2301.9	2426.9	2627.6	2773.9
20°	2404.8	2424.7	2371.8	2309.3	2252.7	2258.6	2329.9	2340.9	2457.8	2669.6	2845.3
22.5°	2643.1	2657.7	2593.1	2490.2	2385.7	2332.1	2387.2	2393.9	2504.1	2723.9	2923.2
25°	2923.2	2932.0	2842.3	2710.0	2559.2	2457.8	2465.9	2477.6	2580.5	2785.7	2992.3
27.5°	3195.2	3223.1	3119.5	2957.7	2759.2	2590.2	2574.0	2581.3	2663.7	2820.3	3040.1
30°	3517.9	3515.7	3406.2	3218.8	2964.4	2734.2	2676.1	2674.6	2708.5	2837.1	3074.6
32.5°	3775.3	3805.5	3698.1	3493.7	3198.9	2883.5	2746.8	2743.8	2743.1	2866.6	3126.1
35°	4067.9	4072.3	3973.8	3768.0	3452.6	3070.9	2845.3	2830.5	2813.6	2929.8	3196.0
37.5°	4329.6	4350.2	4259.8	4028.9	3701.8	3265.8	2980.5	2970.9	2919.5	3039.4	3307.7
40°	4534.0	4549.5	4495.0	4275.3	3947.3	3476.1	3152.6	3134.9	3072.4	3218.8	3456.9
42.5°	4600.9	4632.5	4653.8	4545.8	4229.6	3725.3	3364.3	3342.2	3294.5	3490.8	3629.0
45°	4606.1	4656.0	4768.5	4773.7	4513.4	4023.8	3611.4	3595.9	3592.2	3839.2	3870.8
47.5°	4567.1	4617.8	4806.8	4908.9	4766.4	4325.2	3967.9	3943.7	3945.9	4270.1	4142.1
50°	4473.0	4533.3	4762.7	4995.7	4964.1	4638.4	4344.3	4336.3	4381.8	4761.9	4423.7
52.5°	4295.8	4368.6	4717.1	5050.1	5111.1	4908.2	4772.2	4749.4	4864.9	5295.7	4731.7
55°	3805.5	3915.0	4550.2	5080.3	5250.9	5166.3	5157.5	5198.7	5351.6	5878.0	5070.7
57.5°	3549.6	3631.9	4187.7	5085.4	5427.3	5466.3	5607.4	5617.7	5885.3	6496.2	5453.8
60°	3409.9	3482.7	3989.2	5051.6	5673.6	5837.5	6067.6	6104.4	6406.6	7166.0	5850.7
62.5°	3287.8	3350.3	3870.1	4934.7	5951.5	6388.2	6663.9	6681.6	6998.5	7905.6	6242.6
65°	3000.4	3071.7	3630.5	4817.8	6191.2	7076.4	7455.0	7434.4	7628.5	8543.9	6488.2
67.5°	2612.9	2703.4	3182.7	4414.2	6309.6	7828.4	8346.1	8320.3	8250.5	8962.1	6558.8
70°	2118.1	2166.6	2610.0	3716.4	5836.8	8223.3	9049.7	9022.4	8635.7	9017.3	6225.0
71°	1822.6	1898.3	2272.5	3301.0	5443.5	8102.7	9140.0	9132.8	8636.5	8865.1	5973.5
72.5°	1422.6	1468.9	1799.8	2557.7	4626.7	7417.5	8916.6	8944.5	8449.0	8442.4	5455.2
75°	899.9	920.5	1129.2	1505.7	2538.6	5253.1	7611.6	7687.3	7502.0	6910.2	4056.9
77.5°	522.7	549.2	676.4	887.4	1096.9	2851.1	5446.4	5528.8	5212.6	3804.7	1660.8
80°	304.4	333.8	445.5	515.4	503.6	1058.0	2773.2	2913.6	2257.1	960.9	466.1
82.5°	169.1	188.9	313.2	313.9	268.3	345.5	872.7	913.1	644.0	387.4	190.4
85°	122.8	139.0	202.2	183.1	128.6	148.5	303.6	318.4	260.3	163.2	61.8
87.5°	43.4	61.8	111.0	88.2	35.3	30.9	87.5	71.3	66.2	45.6	13.9
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: P648347
 CATALOG NUMBER: GALN-SA3B-835-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4	2428.4
2.5°	2441.6	2443.1	2435.8	2422.5	2409.3	2392.4	2373.3	2358.6	2351.9	2351.2	2350.5
5°	2468.1	2471.8	2443.8	2402.6	2357.1	2301.2	2253.4	2199.0	2185.0	2163.0	2169.6
7.5°	2510.7	2508.5	2453.4	2365.9	2259.3	2141.0	2041.0	1982.9	1922.6	1905.7	1906.4
10°	2571.8	2557.7	2453.4	2290.9	2113.0	1937.3	1797.6	1709.4	1661.5	1621.8	1607.2
12.5°	2636.4	2601.1	2429.9	2185.7	1924.8	1709.4	1559.3	1440.3	1409.4	1377.1	1377.8
15°	2698.2	2639.4	2383.5	2038.0	1721.8	1466.0	1320.5	1249.1	1239.6	1243.2	1242.5
17.5°	2754.0	2666.6	2313.0	1873.3	1485.1	1257.2	1180.0	1185.1	1210.9	1229.2	1231.5
20°	2810.7	2682.8	2207.8	1652.8	1261.6	1130.7	1133.7	1174.1	1213.1	1238.1	1241.8
22.5°	2864.4	2690.2	2084.3	1439.5	1099.9	1077.1	1120.5	1163.9	1202.1	1226.3	1230.0
25°	2899.7	2673.2	1909.3	1216.8	1020.5	1058.0	1103.6	1140.3	1172.6	1197.7	1203.5
27.5°	2909.2	2618.8	1692.5	1036.6	983.7	1039.6	1081.5	1108.7	1133.7	1157.2	1161.7
30°	2904.1	2538.6	1454.3	930.8	962.4	1018.3	1050.6	1070.4	1100.6	1119.0	1122.7
32.5°	2896.0	2445.3	1205.7	874.1	944.8	998.4	1017.5	1035.2	1034.4	1027.1	1032.2
35°	2898.9	2333.6	1004.3	840.3	929.3	983.7	999.9	977.8	914.6	911.6	908.7
37.5°	2914.3	2223.3	858.0	816.8	921.2	981.5	990.3	888.9	833.0	807.3	800.6
40°	2954.0	2094.6	761.7	799.1	920.5	998.4	947.0	844.0	736.6	686.7	683.0
42.5°	3007.0	1968.1	702.8	788.2	929.3	1024.2	929.3	780.8	663.9	634.5	630.1
45°	3085.6	1823.3	670.5	783.0	942.5	1033.7	923.4	734.5	634.5	611.0	611.0
47.5°	3174.6	1685.1	652.9	779.3	959.4	1027.1	871.2	719.7	620.5	623.4	637.4
50°	3262.8	1565.2	639.6	771.3	974.1	1023.4	849.9	719.0	624.2	661.7	686.7
52.5°	3365.0	1480.7	623.4	758.0	974.1	999.9	843.3	733.7	634.5	645.5	656.5
55°	3488.6	1454.3	602.8	729.3	956.5	941.1	839.6	755.0	641.8	616.1	620.5
57.5°	3651.8	1496.9	583.0	693.3	916.0	880.0	838.1	760.9	624.9	603.6	599.2
60°	3841.5	1581.4	577.1	656.5	860.9	827.9	829.3	744.0	601.4	579.3	583.0
62.5°	3974.5	1632.2	573.5	628.6	800.6	770.5	808.0	723.4	591.1	572.0	575.7
65°	3974.5	1570.4	539.6	586.0	722.7	701.4	782.3	697.7	577.9	555.9	552.2
67.5°	3823.8	1390.3	488.2	522.0	636.7	622.7	746.2	666.8	558.0	541.1	532.3
70°	3431.2	1054.3	423.4	447.0	527.9	540.3	699.9	624.9	524.9	504.3	491.1
71°	3258.5	918.3	396.3	408.8	486.0	504.3	677.8	607.3	510.2	480.8	457.3
72.5°	2925.4	773.4	355.1	360.3	415.4	448.5	631.6	573.5	482.3	440.4	413.9
75°	2222.5	564.6	286.0	283.1	307.3	355.9	534.5	511.0	422.7	366.1	350.7
77.5°	960.2	307.3	213.9	216.2	208.8	269.8	420.5	438.9	362.5	297.8	283.8
80°	291.1	177.2	146.3	149.2	139.7	180.9	296.3	344.1	291.1	231.6	212.5
82.5°	149.2	105.9	100.0	98.5	88.9	102.2	179.4	235.3	208.0	144.9	127.9
85°	64.7	56.6	49.3	47.8	41.9	36.7	64.0	117.6	110.2	80.9	77.2
87.5°	16.2	14.7	9.6	8.8	5.2	0.7	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)