

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: P647192

Luminaire Tested: **GALN-SA9C-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647192
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-SA9C-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51068.8 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

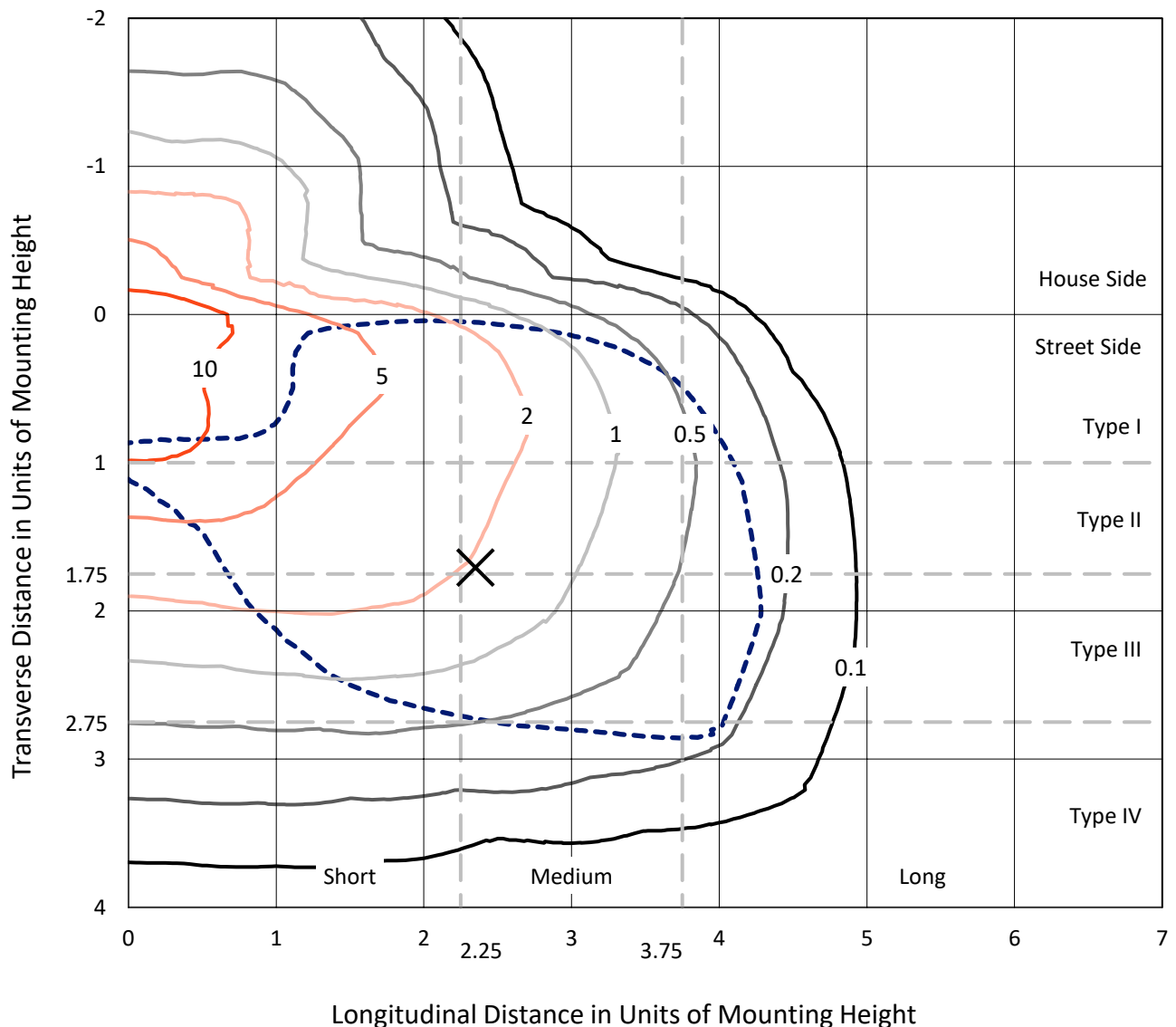
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

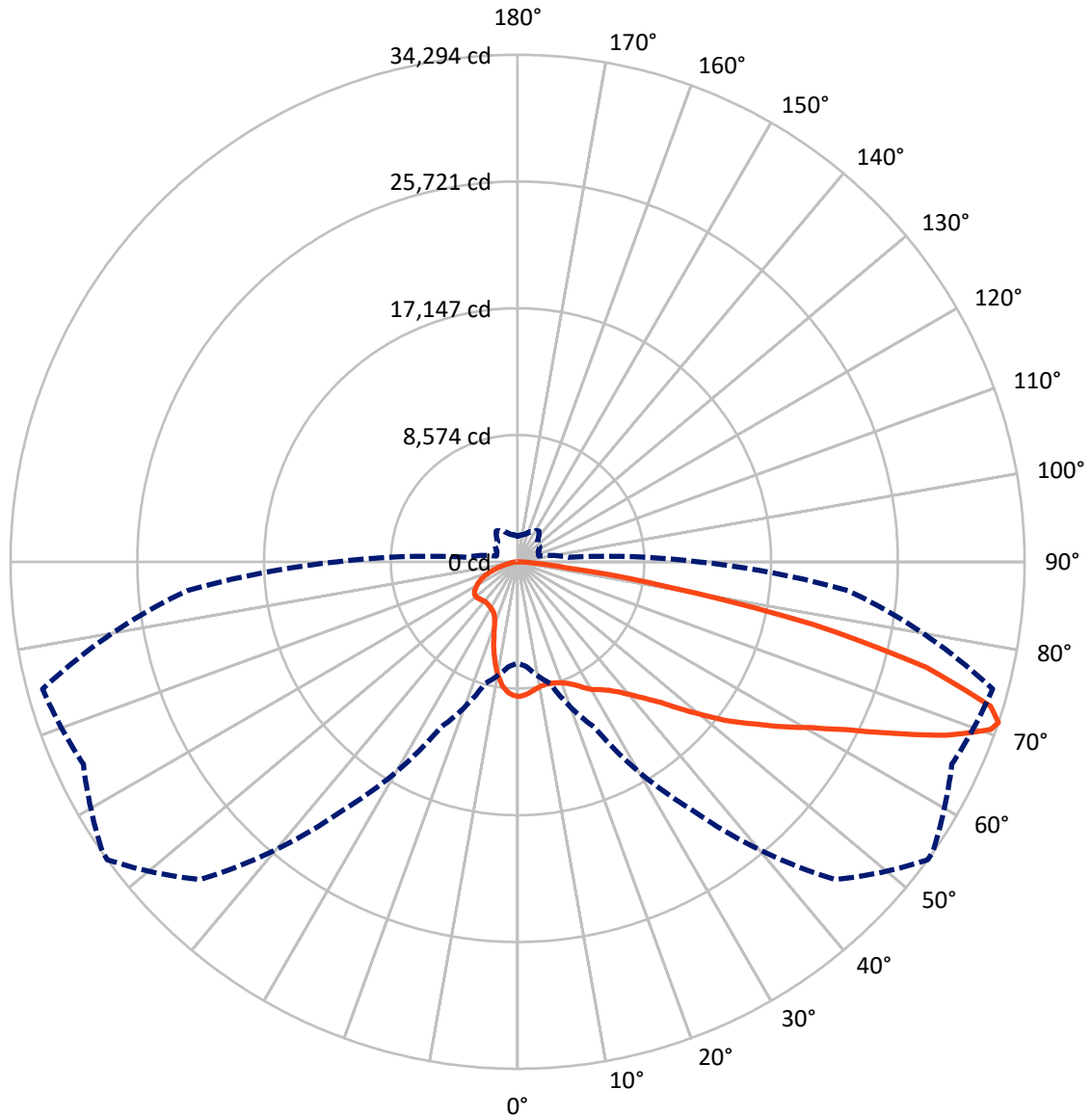
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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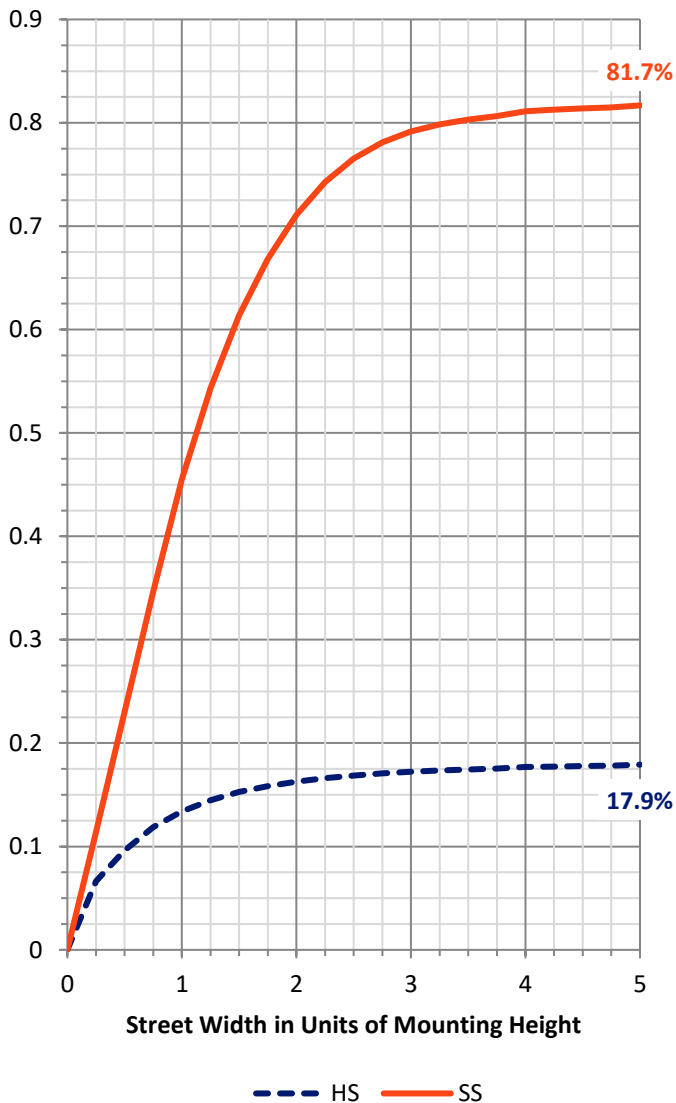
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9220.2	0.0	9220.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41848.7	0.0	41848.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	51068.8	0.0	51068.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.0	1.6
10°-20°	2144.0	4.2
20°-30°	3569.8	7.0
30°-40°	5278.6	10.3
40°-50°	7435.1	14.6
50°-60°	9956.0	19.5
60°-70°	12548.7	24.6
70°-80°	8570.8	16.8
80°-90°	753.7	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°	51068.8	100.0
0°-180°	51068.8	100.0

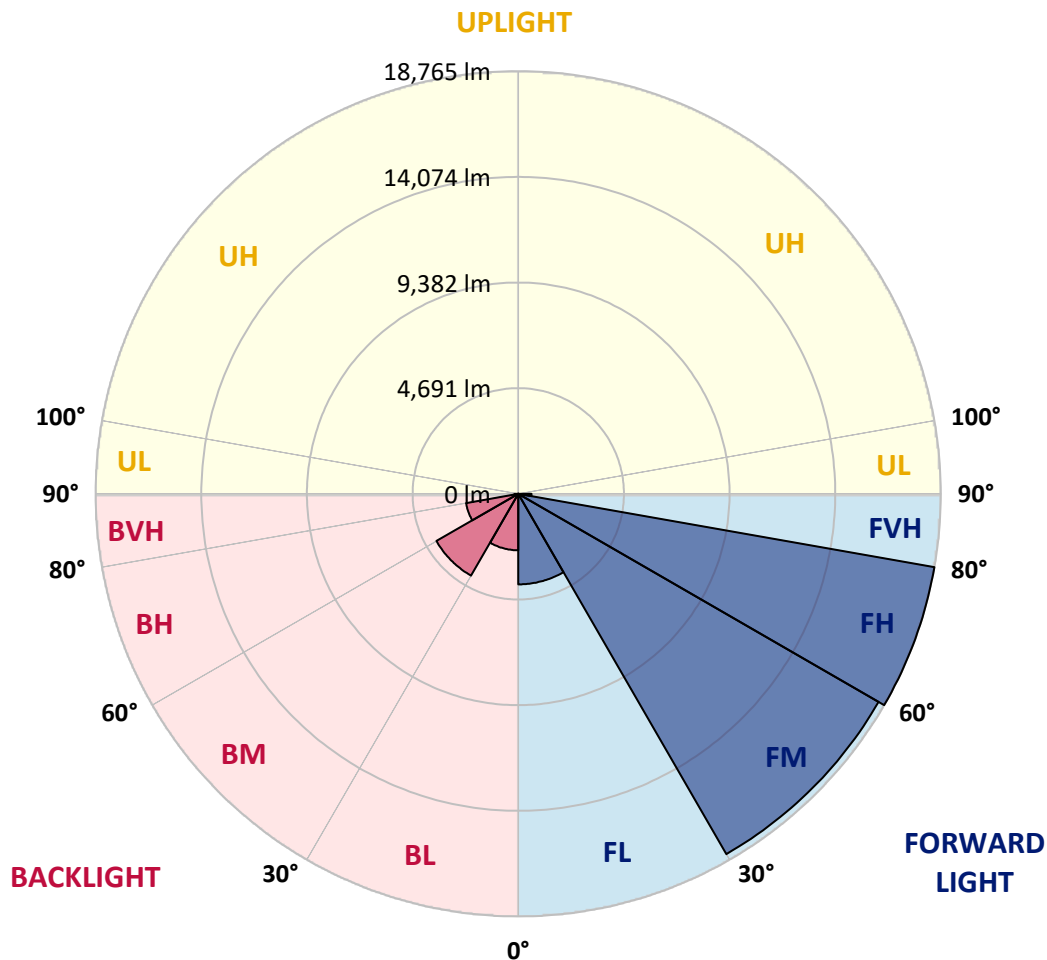


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4019.9	7.9			
FM (30°-60°)	18474.9	36.2			
FH (60°-80°)	18764.7	36.7			G5
FVH (80°-90°)	589.2	1.2			G4/750
BL (0°-30°)	2505.9	4.9	B4/5000		
BM (30°-60°)	4194.9	8.2	B3/5000		
BH (60°-80°)	2354.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	164.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5
2.5°	8802.5	8843.8	8854.9	8882.5	8940.4	8987.3	9034.2	9028.7	9094.9	9122.5	9147.3
5°	8410.8	8421.8	8463.2	8518.3	8620.4	8750.1	8876.9	8879.7	9042.5	9172.1	9235.6
7.5°	8123.9	8159.7	8187.4	8245.2	8352.8	8493.5	8694.9	8711.4	9001.1	9257.6	9392.8
10°	7936.3	7977.7	8008.1	8079.8	8187.4	8344.6	8562.5	8592.8	8970.8	9392.8	9630.0
12.5°	7765.2	7806.7	7834.2	7928.0	8068.7	8261.8	8507.3	8543.2	8981.8	9550.0	9889.4
15°	7870.1	7903.2	7892.2	7919.7	8013.5	8234.2	8529.4	8565.2	9023.1	9701.8	10145.9
17.5°	8336.3	8363.8	8272.9	8168.0	8123.9	8286.6	8598.4	8637.0	9105.9	9859.0	10407.9
20°	9023.1	9097.7	8899.0	8664.5	8452.2	8474.3	8741.8	8783.1	9221.8	10016.2	10675.5
22.5°	9916.9	9972.1	9729.3	9343.1	8951.4	8750.1	8957.0	8981.8	9395.5	10220.3	10968.0
25°	10968.0	11001.0	10664.5	10168.0	9602.5	9221.8	9252.1	9296.2	9682.4	10452.1	11227.2
27.5°	11988.6	12093.4	11704.4	11097.6	10352.7	9718.3	9657.6	9685.2	9994.1	10581.7	11406.5
30°	13199.6	13191.3	12780.3	12076.8	11122.4	10259.0	10041.0	10035.6	10162.4	10645.2	11536.2
32.5°	14165.1	14278.2	13875.4	13108.5	12002.4	10818.9	10305.8	10294.9	10292.1	10755.5	11729.3
35°	15262.9	15279.5	14909.9	14137.5	12954.1	11522.4	10675.5	10620.4	10556.9	10992.8	11991.3
37.5°	16245.0	16322.3	15982.9	15116.8	13889.2	12253.4	11183.1	11147.3	10954.2	11403.8	12410.6
40°	17011.8	17069.8	16865.7	16040.9	14810.6	13042.4	11828.6	11762.4	11527.9	12076.8	12970.6
42.5°	17262.9	17381.5	17461.5	17056.0	15869.8	13977.5	12623.1	12540.3	12361.0	13097.5	13616.1
45°	17282.2	17469.8	17891.9	17911.1	16934.6	15097.4	13549.9	13492.0	13478.2	14405.1	14523.7
47.5°	17136.0	17326.4	18035.3	18418.7	17883.6	16228.5	14887.8	14796.7	14805.0	16021.6	15541.6
50°	16782.9	17009.1	17869.8	18744.2	18625.6	17403.6	16300.2	16269.8	16440.9	17867.0	16598.1
52.5°	16118.1	16391.2	17698.8	18948.4	19177.3	18416.0	17905.6	17820.1	18253.2	19869.7	17753.9
55°	14278.2	14689.2	17072.5	19061.4	19701.5	19384.2	19351.1	19505.6	20079.3	22054.4	19025.6
57.5°	13318.2	13627.2	15712.6	19080.8	20363.5	20509.7	21039.4	21078.0	22082.1	24374.4	20462.8
60°	12794.1	13067.2	14967.8	18953.8	21287.6	21902.8	22766.2	22904.1	24037.9	26887.4	21952.4
62.5°	12336.2	12570.7	14520.9	18515.3	22330.3	23968.9	25003.4	25069.5	26258.5	29662.5	23422.7
65°	11257.6	11525.1	13621.6	18076.7	23229.6	26550.9	27971.5	27894.3	28622.6	32056.9	24344.0
67.5°	9803.9	10143.1	11941.7	16562.3	23673.7	29372.8	31314.8	31218.3	30956.3	33626.5	24608.9
70°	7947.4	8129.4	9792.8	13944.4	21900.0	30854.2	33954.8	33852.7	32401.7	33833.4	23356.5
71°	6838.4	7122.6	8526.6	12385.8	20424.2	30401.8	34294.1	34266.5	32404.5	33262.4	22413.1
72.5°	5337.8	5511.5	6752.9	9596.9	17359.4	27830.9	33455.5	33560.3	31701.1	31676.3	20468.3
75°	3376.5	3453.7	4237.1	5649.5	9525.2	19709.8	28559.1	28843.2	28148.1	25927.5	15221.6
77.5°	1961.3	2060.6	2537.9	3329.6	4115.8	10697.6	20435.2	20744.2	19558.0	14275.4	6231.5
80°	1142.0	1252.4	1671.7	1933.7	1889.6	3969.5	10405.2	10932.1	8468.7	3605.4	1748.9
82.5°	634.5	708.9	1175.1	1177.9	1006.9	1296.5	3274.3	3426.1	2416.5	1453.7	714.5
85°	460.6	521.4	758.6	686.8	482.7	557.3	1139.3	1194.5	976.6	612.4	231.7
87.5°	162.8	231.7	416.6	331.1	132.4	115.9	328.2	267.6	248.3	171.0	52.4
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°	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5	9111.5
2.5°	9161.1	9166.6	9139.0	9089.4	9039.7	8976.2	8904.5	8849.4	8824.6	8821.8	8819.0
5°	9260.4	9274.2	9169.4	9014.9	8843.8	8634.2	8454.9	8250.8	8198.3	8115.6	8140.5
7.5°	9420.4	9412.1	9205.3	8876.9	8477.0	8032.9	7657.7	7439.8	7213.5	7150.1	7152.9
10°	9649.4	9596.9	9205.3	8595.6	7928.0	7268.7	6744.6	6413.6	6234.2	6085.3	6030.1
12.5°	9892.1	9759.7	9116.9	8201.1	7221.8	6413.6	5850.8	5404.0	5288.1	5166.7	5169.5
15°	10123.8	9903.1	8943.2	7646.6	6460.5	5500.5	4954.4	4686.7	4650.9	4664.6	4661.9
17.5°	10333.5	10005.2	8678.4	7028.8	5572.2	4717.1	4427.5	4446.7	4543.3	4612.3	4620.6
20°	10545.8	10065.9	8283.9	6201.2	4733.6	4242.6	4253.6	4405.4	4551.6	4645.4	4659.2
22.5°	10747.2	10093.5	7820.4	5401.2	4126.8	4041.2	4204.0	4366.8	4510.2	4601.2	4615.0
25°	10879.6	10030.0	7163.9	4565.4	3828.9	3969.5	4140.6	4278.5	4399.8	4493.6	4515.7
27.5°	10915.5	9825.9	6350.1	3889.6	3690.9	3900.6	4057.8	4159.8	4253.6	4342.0	4358.5
30°	10896.2	9525.2	5456.4	3492.3	3610.9	3820.6	3941.9	4016.4	4129.5	4198.5	4212.3
32.5°	10865.8	9174.9	4524.0	3279.9	3544.7	3746.1	3817.8	3884.0	3881.3	3853.7	3873.0
35°	10876.9	8755.6	3768.2	3153.0	3486.8	3690.9	3751.6	3668.8	3431.7	3420.6	3409.6
37.5°	10934.8	8341.8	3219.2	3064.7	3456.5	3682.6	3715.7	3335.0	3125.4	3028.9	3004.1
40°	11083.8	7859.0	2857.9	2998.5	3453.7	3746.1	3553.0	3166.8	2764.1	2576.5	2562.7
42.5°	11282.4	7384.6	2637.1	2957.2	3486.8	3842.7	3486.8	2929.6	2491.0	2380.6	2364.0
45°	11577.6	6841.1	2515.8	2937.8	3536.4	3878.5	3464.7	2755.8	2380.6	2292.3	2292.3
47.5°	11911.3	6322.6	2449.6	2924.0	3599.9	3853.7	3268.9	2700.6	2328.2	2339.2	2391.7
50°	12242.4	5872.9	2399.9	2893.7	3655.0	3839.9	3188.8	2697.8	2342.0	2482.7	2576.5
52.5°	12625.8	5555.7	2339.2	2844.0	3655.0	3751.6	3164.0	2753.0	2380.6	2422.0	2463.4
55°	13089.3	5456.4	2262.0	2736.4	3588.9	3530.9	3150.2	2833.1	2408.2	2311.7	2328.2
57.5°	13701.6	5616.4	2187.5	2601.3	3437.1	3302.0	3144.8	2855.1	2344.8	2264.7	2248.2
60°	14413.3	5933.6	2165.5	2463.4	3230.3	3106.1	3111.6	2791.6	2256.4	2173.7	2187.5
62.5°	14912.6	6123.9	2151.7	2358.6	3004.1	2890.9	3031.6	2714.4	2217.8	2146.1	2159.9
65°	14912.6	5892.2	2024.8	2198.6	2711.6	2631.7	2935.1	2617.9	2168.2	2085.4	2071.7
67.5°	14347.1	5216.4	1831.7	1958.6	2388.9	2336.5	2799.9	2502.0	2093.7	2030.3	1997.2
70°	12874.1	3955.7	1588.9	1677.2	1980.6	2027.5	2626.1	2344.8	1969.6	1892.4	1842.7
71°	12225.8	3445.4	1486.8	1533.7	1823.4	1892.4	2543.3	2278.5	1914.4	1804.1	1715.8
72.5°	10976.2	2902.0	1332.4	1351.7	1558.6	1682.7	2369.6	2151.7	1809.6	1652.4	1553.1
75°	8339.0	2118.6	1073.1	1062.1	1153.0	1335.1	2005.4	1917.2	1586.1	1373.8	1315.8
77.5°	3602.7	1153.0	802.7	811.0	783.4	1012.4	1577.9	1646.8	1360.0	1117.2	1064.8
80°	1092.4	664.8	549.0	560.0	524.1	678.6	1111.7	1291.0	1092.4	869.0	797.3
82.5°	560.0	397.2	375.1	369.7	333.8	383.4	673.1	882.8	780.7	543.4	480.0
85°	242.7	212.4	184.8	179.3	157.2	138.0	240.0	441.4	413.8	303.4	289.6
87.5°	60.7	55.2	35.9	33.1	19.3	2.7	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)