

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: P647075

Luminaire Tested: **GALN-SA7C-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38560.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

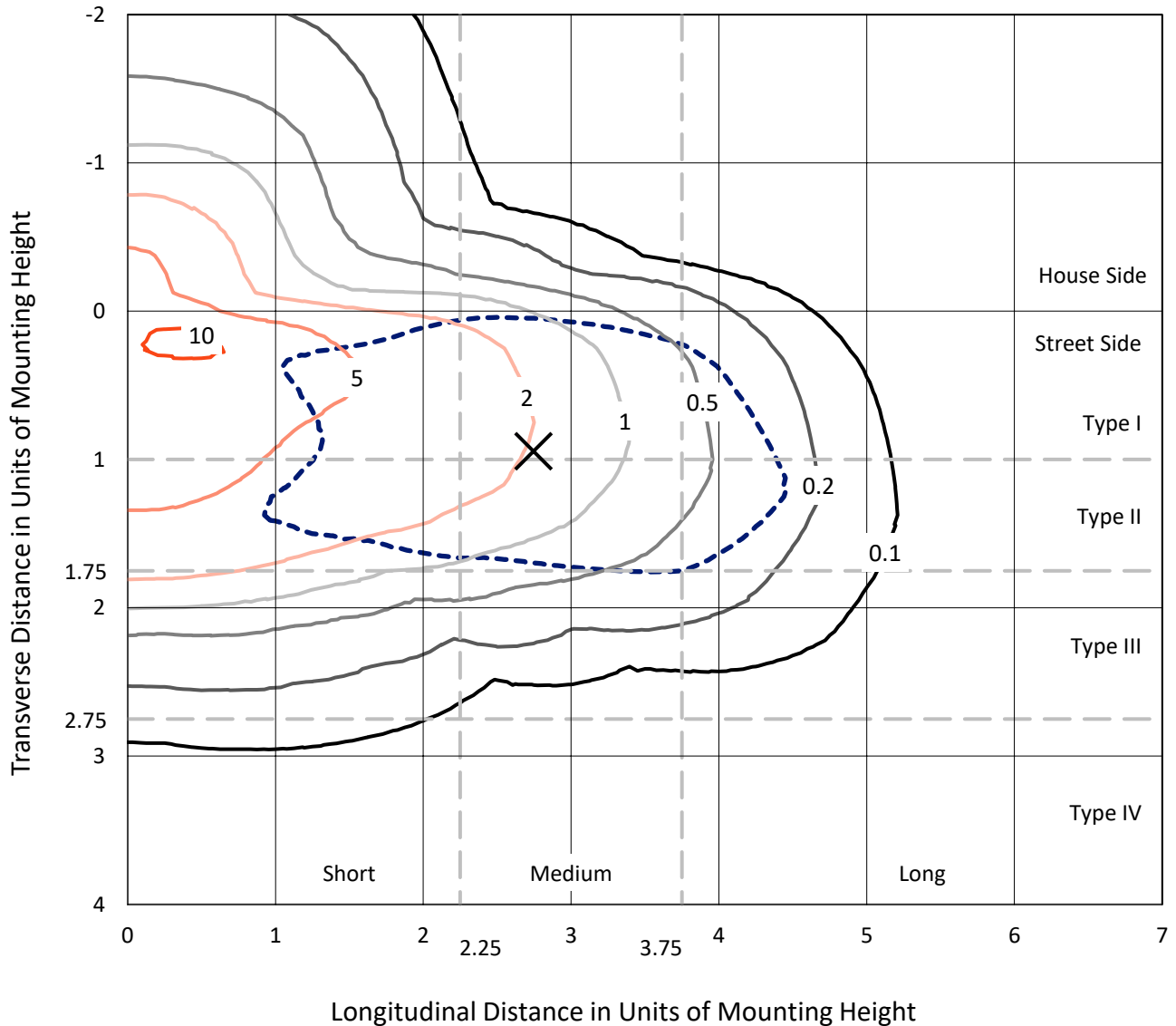
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

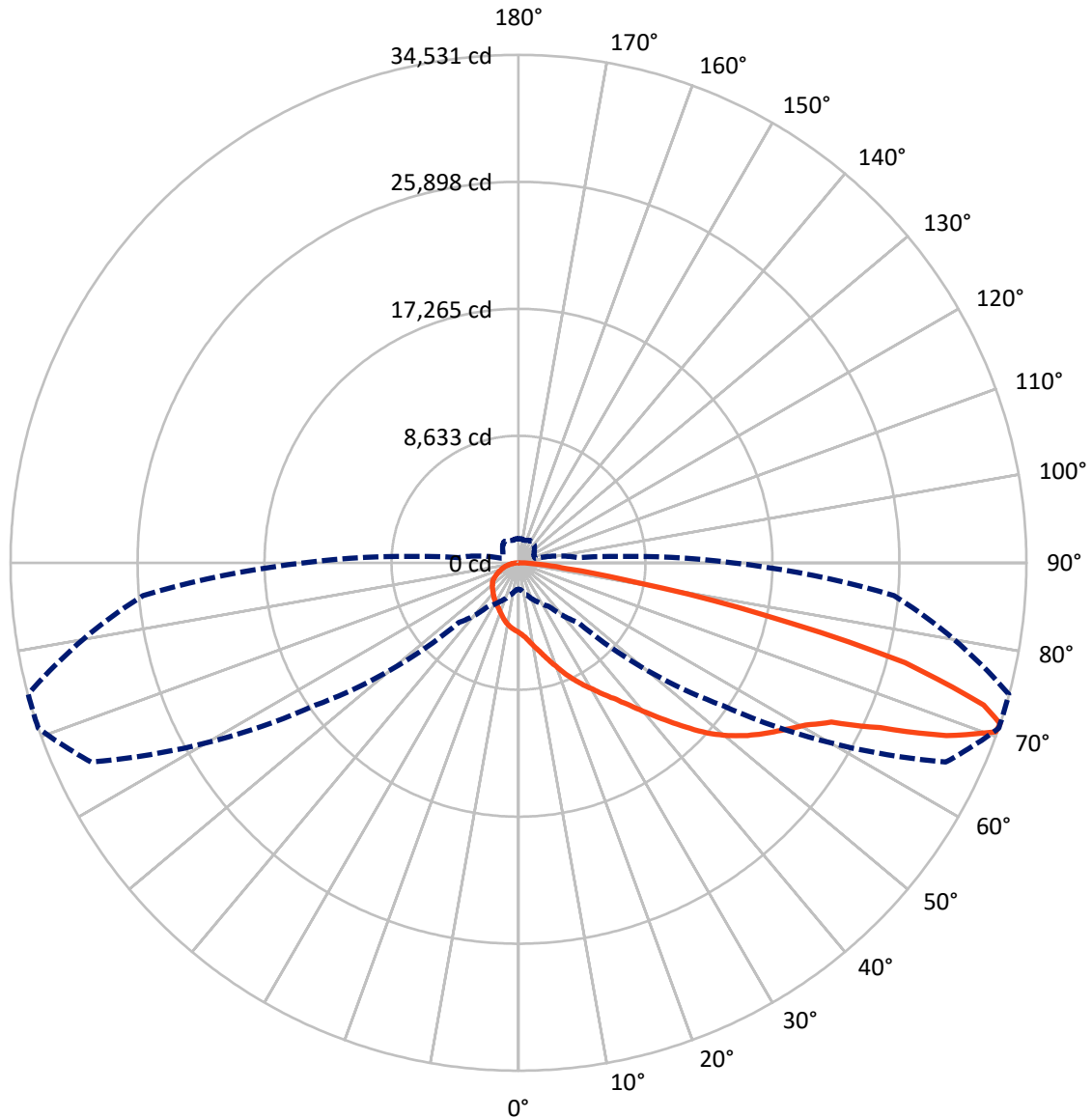
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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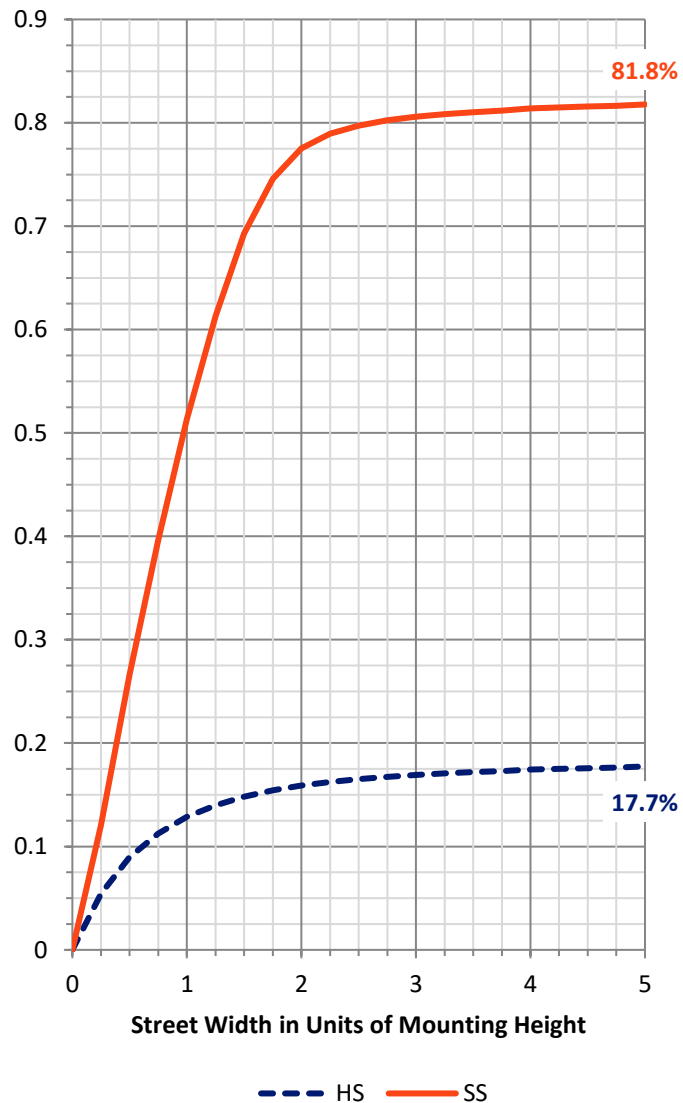
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6935.0	0.0	6935.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31625.4	0.0	31625.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	38560.4	0.0	38560.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.2	1.2
10°-20°	1543.8	4.0
20°-30°	2697.9	7.0
30°-40°	4012.8	10.4
40°-50°	5912.4	15.3
50°-60°	8277.5	21.5
60°-70°	9258.1	24.0
70°-80°	5655.2	14.7
80°-90°	727.5	1.9
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°	38560.4	100.0
0°-180°	38560.4	100.0

Coefficient of Utilization

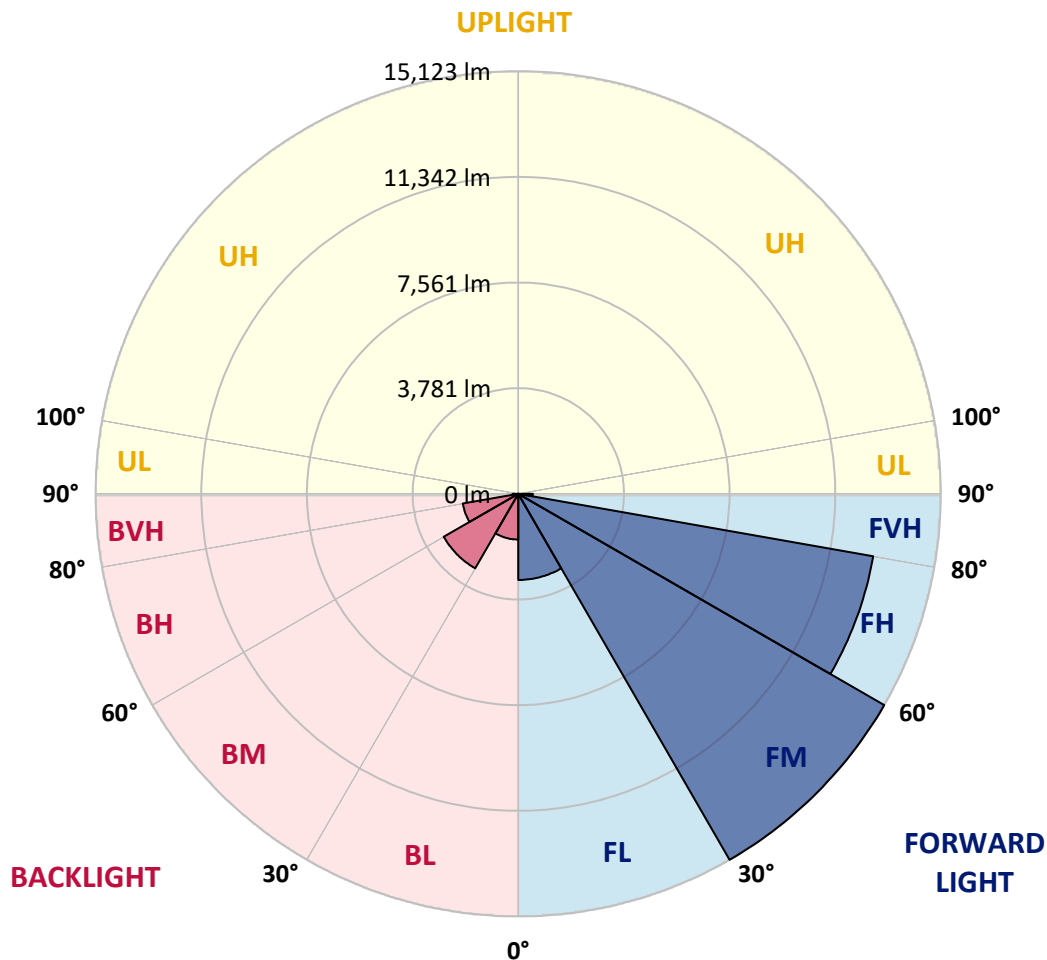


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.0	8.0			
FM (30°-60°)	15122.6	39.2			
FH (60°-80°)	12898.3	33.4			G5
FVH (80°-90°)	523.4	1.4			G4/750
BL (0°-30°)	1635.9	4.2	B3/2500		
BM (30°-60°)	3080.1	8.0	B3/5000		
BH (60°-80°)	2014.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	204.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5
2.5°	5253.9	5228.5	5230.6	5194.6	5147.9	5097.1	5025.0	4961.4	4910.6	4880.9	4794.0
5°	5821.9	5796.5	5764.7	5686.2	5652.3	5527.3	5368.3	5224.3	5114.0	5052.5	4878.8
7.5°	6281.8	6275.4	6267.0	6222.4	6135.5	5961.8	5826.1	5576.1	5412.9	5296.3	4999.5
10°	6565.8	6576.3	6582.8	6591.2	6555.2	6464.1	6277.5	5961.8	5754.0	5605.7	5156.4
12.5°	6709.9	6720.5	6756.5	6835.0	6883.7	6873.1	6720.5	6411.0	6124.9	5930.0	5323.9
15°	6798.9	6815.9	6879.4	6983.3	7146.4	7250.3	7176.1	6890.0	6576.3	6345.4	5523.0
17.5°	6896.4	6915.5	6985.4	7133.8	7347.8	7572.5	7653.0	7407.2	7065.9	6790.4	5745.6
20°	6951.5	6976.9	7076.5	7271.5	7521.6	7848.0	8115.0	7985.7	7612.7	7307.6	6002.0
22.5°	7040.5	7061.7	7146.4	7354.2	7653.0	8062.0	8577.1	8549.5	8221.0	7826.8	6283.9
25°	7282.1	7316.0	7358.4	7483.4	7771.7	8280.3	8960.7	9151.4	8810.2	8369.3	6542.4
27.5°	7737.8	7765.3	7763.2	7780.2	7943.4	8468.9	9293.4	9746.9	9395.1	8918.3	6792.5
30°	8257.0	8267.6	8276.1	8237.9	8274.0	8661.9	9598.6	10336.1	9984.3	9482.0	7010.8
32.5°	8888.6	8909.8	8837.7	8740.2	8710.6	8948.0	9850.8	10925.3	10681.6	10054.3	7227.0
35°	9634.6	9689.7	9543.4	9371.8	9251.0	9359.1	10189.9	11527.2	11395.8	10785.4	7513.1
37.5°	10486.6	10554.4	10418.8	10081.8	9910.1	9939.8	10632.8	12271.1	12298.7	11618.3	7939.2
40°	11183.8	11272.9	11277.1	10800.2	10539.6	10573.5	11194.5	13072.2	13388.0	12648.3	8441.4
42.5°	11643.8	11730.7	11821.8	11542.0	11268.6	11461.5	11849.4	13941.2	14613.0	13898.7	9142.9
45°	12148.2	12226.5	12277.4	12150.3	11997.7	12497.9	12639.9	14865.2	15918.5	15295.4	9910.1
47.5°	12733.1	12820.0	12868.8	12747.9	12690.7	13407.1	13491.9	15727.7	17313.1	16651.8	10757.9
50°	13513.0	13578.7	13553.3	13477.0	13464.3	14104.3	14309.9	16535.2	18463.8	18112.0	11637.4
52.5°	14483.7	14562.1	14589.6	14481.6	14432.8	14602.4	14969.0	17270.6	19510.8	19366.7	12576.3
55°	15070.8	15195.8	15615.4	15785.0	15901.6	15246.7	15679.0	18082.4	20449.7	20689.2	13585.1
57.5°	14318.4	14479.5	15418.4	16266.0	17361.8	16857.4	16685.7	18930.1	21388.6	21971.4	14793.1
60°	12483.1	12519.1	13729.2	15291.2	17495.3	18928.0	18786.0	20278.1	22405.9	23264.2	16384.7
62.5°	8659.7	8736.0	10166.6	12658.9	15846.4	19674.0	22359.3	22605.1	23864.0	25199.2	18718.2
65°	4465.5	4365.9	5669.3	7956.1	11946.9	17902.2	25254.3	26884.1	27026.0	28225.6	22003.2
67.5°	2748.8	2793.4	3403.7	4645.6	7063.8	13010.7	24951.2	32112.6	31364.4	31940.8	25052.9
70°	2064.2	2119.3	2539.0	3179.1	4306.5	7439.0	20066.1	33379.9	34424.8	34276.4	25981.2
71°	1795.1	1852.3	2288.9	2893.0	3617.8	5741.3	16906.1	32053.2	34530.7	34505.3	25631.5
72.5°	1530.1	1566.2	1907.4	2450.0	3049.8	4024.7	12701.4	28747.0	33057.8	33903.4	24383.2
75°	1201.7	1229.2	1381.8	1869.3	2401.2	2471.1	6815.9	21551.8	27151.1	28761.8	20299.2
77.5°	979.1	998.2	1076.6	1388.2	1852.3	1750.6	3575.3	14028.1	17010.0	18631.3	11957.4
80°	777.8	799.0	845.6	941.0	1388.2	1248.3	1706.1	7108.3	8216.7	8199.8	4772.8
82.5°	604.0	610.3	665.5	690.9	949.5	885.9	924.0	3009.5	3333.8	3443.9	1723.1
85°	381.5	400.6	589.2	529.9	568.0	519.2	455.6	1195.3	1473.0	1451.8	688.8
87.5°	116.6	122.9	199.2	224.6	252.2	226.8	167.4	351.8	430.3	466.3	171.6
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°	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5	4732.5
2.5°	4760.1	4736.8	4654.1	4586.3	4522.7	4452.8	4393.4	4376.5	4361.6	4355.3	4353.2
5°	4804.6	4734.6	4571.5	4438.0	4331.9	4234.5	4173.0	4145.4	4118.0	4118.0	4126.4
7.5°	4868.1	4741.0	4488.8	4289.6	4156.1	4064.9	4020.4	4016.2	4022.5	4028.9	4031.0
10°	4938.1	4736.8	4368.0	4120.1	4001.4	3958.9	3961.1	3997.1	4031.0	4056.5	4060.7
12.5°	5006.0	4711.3	4226.0	3961.1	3884.8	3893.2	3952.6	4033.2	4098.8	4134.9	4137.0
15°	5082.2	4671.1	4054.3	3810.6	3785.2	3850.9	3961.1	4084.0	4183.6	4242.9	4249.3
17.5°	5145.8	4603.3	3874.2	3664.4	3696.2	3817.0	3969.6	4128.5	4249.3	4323.5	4336.2
20°	5217.8	4516.3	3687.7	3524.5	3615.7	3778.8	3952.6	4124.3	4249.3	4321.4	4338.3
22.5°	5275.1	4393.4	3509.6	3410.0	3543.5	3732.2	3895.3	4033.2	4134.9	4173.0	4198.4
25°	5298.4	4238.7	3342.2	3316.8	3486.3	3655.9	3766.1	3844.5	3876.3	3872.1	3882.7
27.5°	5285.7	4060.7	3198.1	3242.6	3414.3	3537.2	3592.3	3586.0	3528.7	3475.7	3501.2
30°	5232.7	3848.8	3077.3	3166.3	3321.0	3388.8	3380.4	3297.8	3189.6	3090.0	3096.4
32.5°	5137.3	3619.9	2965.0	3079.5	3189.6	3219.3	3162.1	3054.0	2899.3	2770.0	2750.9
35°	5056.8	3401.6	2865.4	2979.8	3058.2	3043.4	2988.3	2848.4	2708.6	2594.1	2575.1
37.5°	5044.1	3215.1	2770.0	2867.5	2912.0	2890.8	2822.9	2704.3	2653.4	2566.5	2555.9
40°	5111.9	3083.7	2672.5	2748.8	2770.0	2753.0	2678.9	2611.1	2657.7	2636.5	2636.5
42.5°	5296.3	3013.8	2585.6	2630.1	2647.1	2659.8	2606.8	2549.6	2606.8	2509.4	2477.6
45°	5588.7	3015.9	2507.2	2513.6	2564.4	2609.0	2572.9	2488.1	2458.5	2263.5	2225.4
47.5°	6019.0	3087.9	2443.6	2403.3	2494.5	2568.6	2517.8	2394.9	2263.5	2134.2	2110.9
50°	6521.3	3217.2	2386.4	2288.9	2401.2	2517.8	2479.7	2335.5	2199.9	2121.5	2106.7
52.5°	7078.6	3380.4	2316.4	2161.8	2286.8	2494.5	2488.1	2327.1	2140.6	2087.6	2074.9
55°	7767.4	3541.4	2229.6	2013.4	2185.0	2475.4	2464.8	2257.2	2127.8	2089.7	2085.4
57.5°	8568.6	3774.6	2104.5	1862.9	2068.5	2397.0	2373.7	2214.7	2085.4	2057.9	2055.8
60°	9859.2	4137.0	1926.5	1725.2	1949.8	2259.3	2288.9	2142.7	2017.6	2011.3	2009.2
62.5°	11556.8	4645.6	1742.1	1583.1	1812.0	2081.2	2166.0	2045.2	1945.6	1977.4	1981.6
65°	13900.9	5073.8	1551.4	1462.3	1659.5	1909.6	2049.4	1954.1	1865.0	1926.5	1926.5
67.5°	15428.9	5082.2	1377.6	1337.3	1504.8	1765.4	1926.5	1846.0	1761.2	1865.0	1869.3
70°	15111.0	4452.8	1233.5	1205.9	1354.3	1610.7	1790.9	1727.3	1629.8	1723.1	1689.2
71°	14598.2	4103.1	1176.2	1155.1	1294.9	1536.6	1727.3	1674.3	1576.8	1638.3	1619.2
72.5°	13780.1	3562.6	1083.0	1087.2	1205.9	1443.3	1638.3	1583.1	1485.7	1519.6	1513.2
75°	11648.0	3111.3	926.1	945.2	1036.4	1284.4	1460.2	1417.9	1318.3	1318.3	1311.9
77.5°	7282.1	2174.5	769.3	779.9	879.5	1100.0	1254.7	1218.7	1123.3	1091.5	1083.0
80°	2717.0	1123.3	601.9	614.6	676.0	866.8	1038.5	1004.6	907.1	871.1	837.2
82.5°	1027.9	563.8	442.9	432.4	498.1	661.2	813.9	773.6	697.3	610.3	585.0
85°	387.8	279.8	271.3	262.8	292.5	392.0	504.4	496.0	415.4	353.9	347.6
87.5°	101.7	91.1	105.9	78.4	82.7	74.2	76.3	31.8	14.8	6.3	4.2
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)