

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: P646918

Luminaire Tested: **GALN-SA4C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21595.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

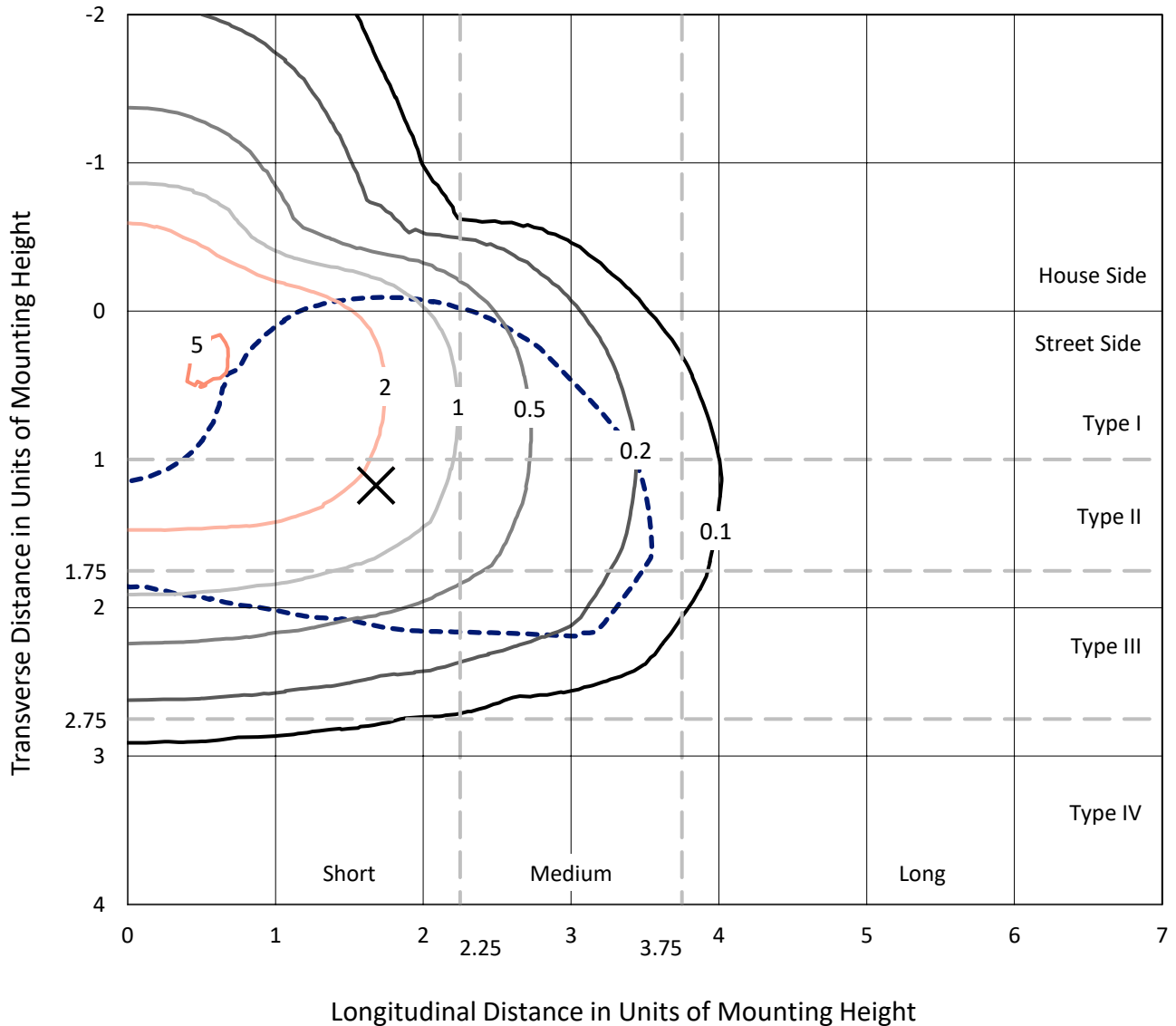
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

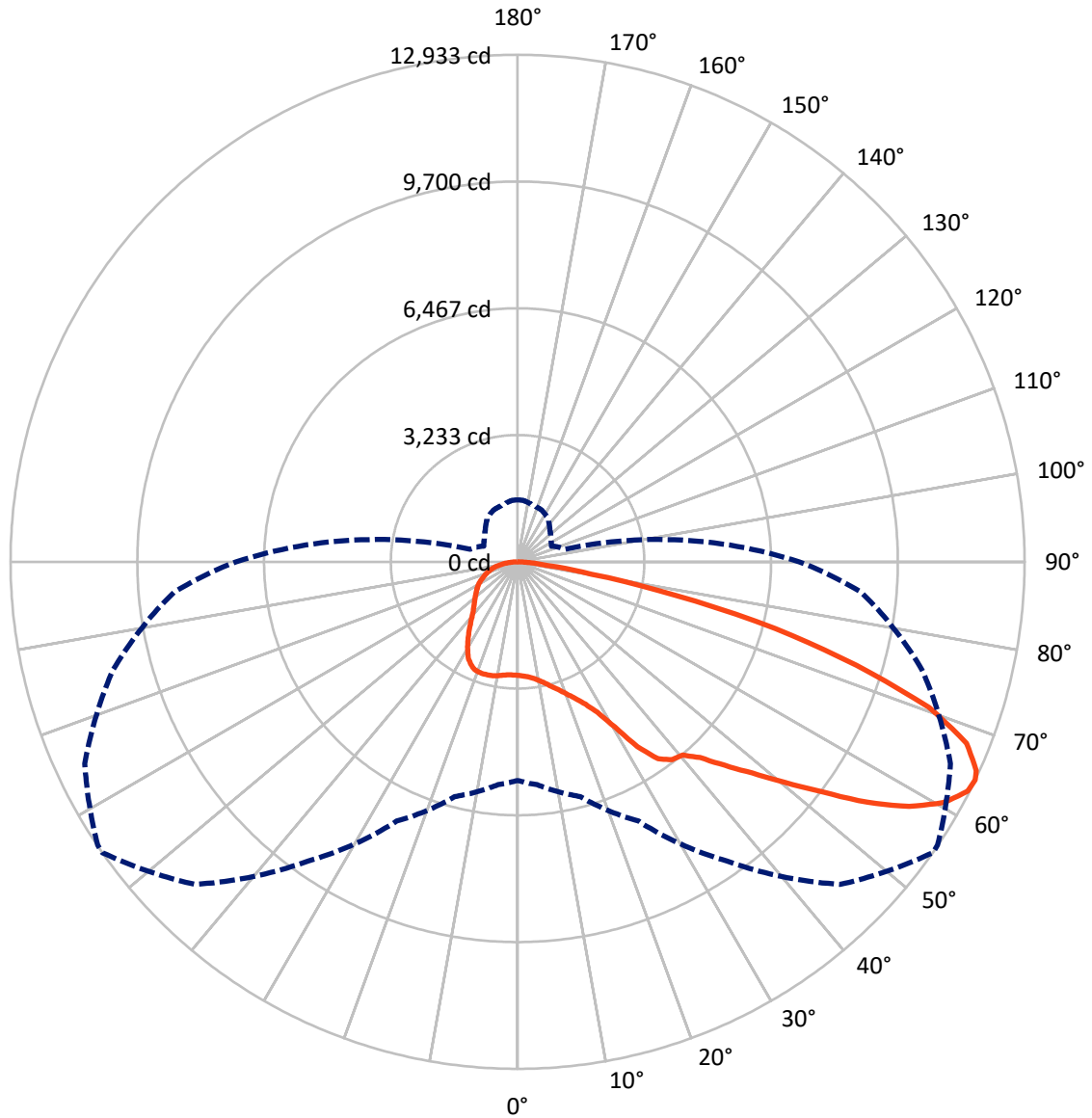
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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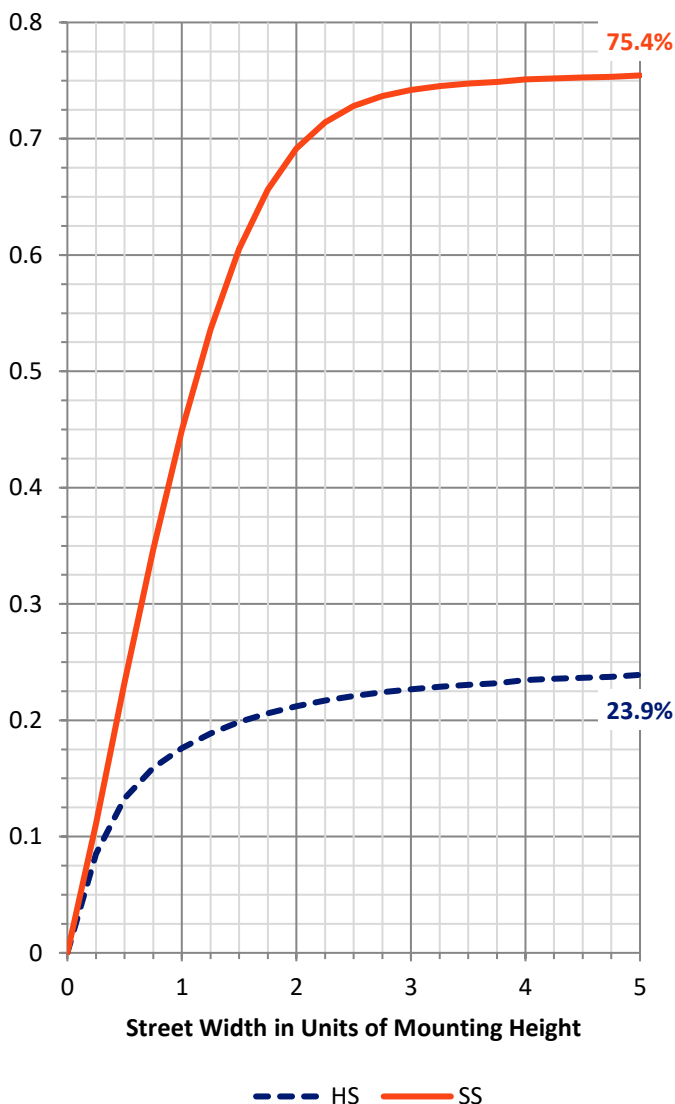
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.9	0.0	5245.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16349.3	0.0	16349.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	21595.1	0.0	21595.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.3
10°-20°	889.3	4.1
20°-30°	1583.2	7.3
30°-40°	2435.9	11.3
40°-50°	3453.1	16.0
50°-60°	4998.2	23.1
60°-70°	5172.6	24.0
70°-80°	2422.4	11.2
80°-90°	358.6	1.7
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°	21595.1	100.0
0°-180°	21595.1	100.0

Coefficient of Utilization

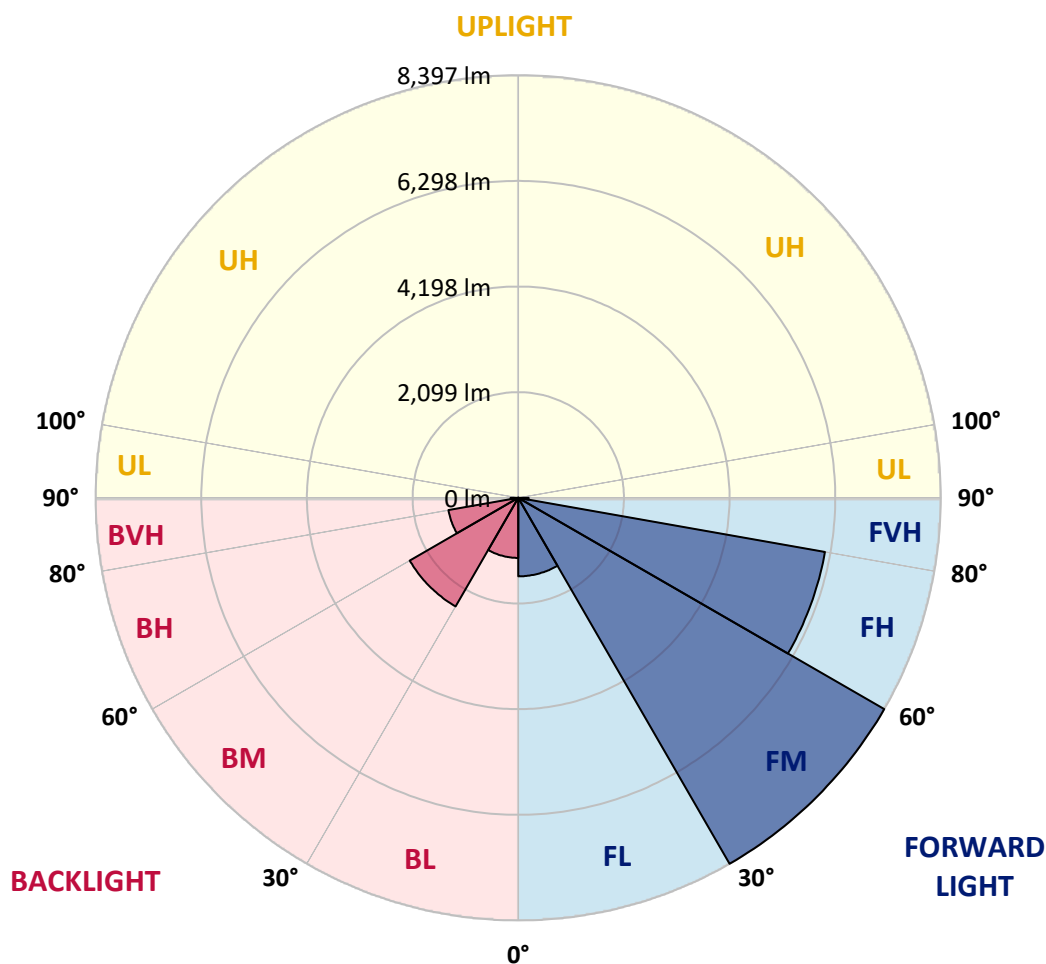


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.5	7.2			
FM (30°-60°)	8396.8	38.9			
FH (60°-80°)	6187.6	28.7			G3/7500
FVH (80°-90°)	205.3	1.0			G2/225
BL (0°-30°)	1194.8	5.5	B3/2500		
BM (30°-60°)	2490.4	11.5	B2/2500		
BH (60°-80°)	1407.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	153.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2929.9	2928.7	2932.3	2928.7	2931.1	2922.7	2919.1	2921.5	2917.8	2911.9	2901.0
5°	2966.0	2964.8	2966.0	2961.2	2963.7	2958.8	2950.3	2952.8	2946.7	2933.5	2917.8
7.5°	3027.4	3022.6	3022.6	3021.4	3016.6	3009.4	3003.4	3000.9	2994.9	2978.1	2954.0
10°	3106.9	3106.9	3108.0	3098.4	3104.4	3091.2	3085.2	3084.0	3063.6	3041.9	3008.1
12.5°	3211.6	3217.6	3214.0	3209.2	3206.8	3202.0	3181.5	3186.3	3163.5	3126.1	3085.2
15°	3341.6	3351.2	3345.2	3342.8	3336.8	3318.7	3310.3	3306.7	3276.6	3222.4	3168.3
17.5°	3513.7	3501.7	3496.9	3490.8	3465.6	3452.3	3437.9	3435.5	3409.0	3345.2	3261.0
20°	3664.2	3681.0	3671.4	3665.4	3640.1	3614.9	3604.0	3600.4	3577.5	3507.7	3372.9
22.5°	3843.6	3847.2	3850.8	3836.3	3824.3	3805.1	3785.8	3779.8	3771.3	3699.1	3534.2
25°	4035.0	4049.4	4037.4	4022.9	4008.5	4007.2	4025.3	4022.9	4019.3	3949.5	3748.5
27.5°	4346.7	4360.0	4363.6	4347.9	4292.6	4297.3	4338.3	4351.5	4406.9	4291.4	4024.2
30°	4522.5	4535.7	4565.8	4624.8	4712.6	4789.7	4888.4	4918.5	4971.5	4753.6	4351.5
32.5°	4630.8	4635.6	4689.8	4799.3	5063.0	5350.6	5619.1	5629.9	5663.6	5357.8	4651.3
35°	4801.7	4805.3	4848.6	4969.1	5278.4	5757.5	6172.8	6186.0	6158.4	5545.7	4790.9
37.5°	5012.4	5022.0	5049.7	5149.6	5519.2	6098.2	6402.7	6393.1	6147.6	5694.9	5037.7
40°	5319.4	5319.4	5286.8	5421.6	5773.1	6293.2	6483.4	6466.5	6401.5	6127.1	5413.3
42.5°	5590.2	5585.4	5662.4	5753.9	6091.0	6594.1	6821.7	6849.3	6956.5	6670.0	5840.6
45°	5942.9	5964.6	6007.9	6174.0	6631.5	7108.2	7401.9	7428.3	7580.0	7309.1	6340.1
47.5°	6299.2	6306.4	6442.4	6664.0	7300.7	7805.1	8045.9	8089.2	8227.6	8056.7	6878.2
50°	6552.0	6620.6	6838.5	7187.5	7990.4	8655.0	8842.7	8894.5	9138.9	8870.4	7505.4
52.5°	6819.2	6886.6	7152.6	7684.7	8782.5	9524.0	9755.2	9790.1	10044.1	9693.8	8147.0
55°	7047.9	7110.5	7412.7	8125.3	9413.3	10411.2	10830.1	10789.2	10910.7	10328.2	8641.7
57.5°	7085.2	7135.8	7516.2	8407.0	9887.6	11172.0	11772.6	11796.7	11655.9	10802.4	9049.8
60°	6796.4	6899.9	7336.9	8376.8	10100.6	11701.6	12475.6	12492.5	12092.8	11045.5	9212.2
62.5°	6284.7	6273.9	6802.4	7893.0	9802.1	11822.0	12889.7	12871.7	12263.7	10928.8	9054.6
64°	5578.2	5708.1	6201.7	7298.3	9320.6	11636.6	12933.0	12923.4	12181.9	10685.7	8786.1
65°	5147.2	5140.0	5627.5	6812.0	8841.5	11357.3	12856.0	12842.8	12011.0	10467.8	8577.9
67.5°	3716.0	3732.8	4214.3	5256.7	7187.5	10265.5	12354.0	12304.7	11336.9	9745.5	7785.8
70°	2251.0	2260.6	2638.6	3487.2	5159.3	8298.6	11135.8	11138.3	10305.3	8666.9	6626.6
72.5°	1185.7	1211.0	1362.7	1980.1	3133.3	5822.5	9034.1	9248.4	8847.5	7397.0	5235.1
75°	659.7	663.3	770.4	976.2	1598.6	3258.5	6790.3	6851.7	7004.6	5953.7	3871.2
77.5°	503.2	510.4	544.1	630.8	870.3	1510.7	4109.6	4417.8	4936.6	4197.4	2208.8
80°	408.1	415.3	444.2	496.0	579.0	716.2	1909.1	2075.3	2642.2	1863.4	861.8
82.5°	317.8	313.0	350.3	384.0	421.3	423.7	783.6	866.7	1076.2	801.7	373.2
85°	235.9	235.9	266.1	258.8	272.0	248.0	345.5	381.6	431.0	340.7	173.4
87.5°	93.9	103.5	174.5	156.5	121.6	97.5	127.6	134.8	149.2	133.6	72.2
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°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2902.3	2905.9	2897.4	2891.4	2889.0	2885.4	2881.8	2883.0	2887.8	2892.6	2891.4
5°	2916.7	2917.8	2903.4	2896.2	2891.4	2886.6	2886.6	2890.2	2899.8	2907.0	2907.0
7.5°	2952.8	2952.8	2932.3	2919.1	2911.9	2903.4	2901.0	2902.3	2909.5	2919.1	2920.3
10°	3009.4	3004.5	2978.1	2957.6	2944.4	2923.9	2905.9	2896.2	2899.8	2905.9	2905.9
12.5°	3078.0	3064.7	3031.0	3003.4	2970.9	2932.3	2895.0	2875.7	2874.5	2880.6	2878.2
15°	3151.4	3136.9	3090.0	3039.4	2982.9	2926.3	2881.8	2854.1	2832.4	2826.4	2839.6
17.5°	3236.8	3206.8	3141.8	3071.9	2987.7	2914.2	2844.5	2787.9	2749.3	2738.5	2742.1
20°	3340.4	3300.7	3212.8	3103.3	2984.1	2870.9	2762.6	2686.8	2624.1	2604.9	2607.3
22.5°	3483.6	3415.1	3286.3	3118.9	2954.0	2789.0	2638.6	2539.9	2464.1	2434.0	2452.0
25°	3646.1	3571.5	3356.0	3115.3	2875.7	2657.9	2491.7	2362.9	2294.3	2249.8	2259.4
27.5°	3870.1	3737.7	3430.6	3082.8	2763.8	2497.8	2305.2	2183.6	2121.0	2098.1	2108.9
30°	4156.6	3953.1	3511.4	2994.9	2586.9	2295.5	2117.4	2037.9	2000.6	1971.8	1981.4
32.5°	4363.6	4104.8	3529.4	2846.8	2395.4	2111.4	1989.8	1930.8	1889.8	1862.2	1868.2
35°	4511.6	4233.6	3521.0	2665.1	2195.6	1959.7	1888.7	1840.5	1774.4	1714.1	1703.3
37.5°	4710.3	4394.9	3459.5	2466.5	1998.2	1857.4	1806.9	1717.7	1622.6	1542.0	1538.4
40°	5014.8	4583.8	3328.4	2233.0	1829.7	1781.6	1720.2	1604.6	1502.3	1437.3	1432.4
42.5°	5329.0	4758.4	3150.2	1987.4	1691.3	1702.1	1627.5	1513.1	1450.5	1408.4	1403.6
45°	5713.0	4947.4	2957.6	1774.4	1588.9	1627.5	1546.8	1480.6	1443.3	1415.6	1408.4
47.5°	6128.3	5141.2	2740.9	1582.9	1502.3	1558.9	1513.1	1483.0	1462.6	1443.3	1434.8
50°	6576.0	5357.8	2537.5	1428.8	1424.0	1487.9	1509.5	1498.7	1486.6	1480.6	1473.4
52.5°	7067.2	5579.3	2366.5	1320.5	1355.5	1437.3	1510.7	1519.1	1519.1	1515.5	1510.7
55°	7399.4	5733.4	2193.3	1232.6	1285.6	1396.3	1508.3	1540.8	1552.8	1548.0	1543.2
57.5°	7645.0	5817.7	1975.4	1156.8	1226.6	1356.6	1495.1	1543.2	1555.3	1561.2	1558.9
60°	7695.6	5739.5	1690.0	1077.3	1162.8	1298.8	1446.9	1507.1	1522.7	1560.0	1563.7
62.5°	7468.0	5498.7	1406.0	999.1	1084.6	1211.0	1381.9	1466.2	1497.5	1555.3	1561.2
64°	7188.8	5229.1	1248.3	949.8	1034.0	1161.6	1349.4	1455.4	1496.2	1573.3	1578.1
65°	6984.1	5032.9	1149.6	918.5	1001.5	1129.1	1331.3	1459.0	1507.1	1601.0	1608.2
67.5°	6230.6	4357.6	951.0	845.0	924.5	1073.7	1334.9	1489.0	1504.7	1611.8	1610.6
70°	5155.7	3469.2	796.9	777.6	849.9	1029.2	1320.5	1440.9	1442.1	1513.1	1496.2
72.5°	3860.4	2564.0	690.9	707.8	766.8	923.2	1247.1	1375.9	1355.5	1365.1	1348.2
75°	2651.9	1696.1	594.7	633.1	680.1	816.1	1143.6	1249.5	1217.0	1205.0	1192.9
77.5°	1415.6	937.7	494.8	559.8	591.0	705.4	997.9	1100.2	1066.5	1019.5	1004.0
80°	573.0	441.8	398.5	463.5	481.5	568.1	830.6	894.4	869.1	787.2	760.8
82.5°	287.7	264.8	313.0	364.7	366.0	405.7	617.6	677.7	621.2	521.2	498.4
85°	150.5	155.3	215.5	256.4	226.3	219.1	370.8	410.4	376.8	327.5	295.0
87.5°	54.2	62.6	113.1	112.0	79.5	42.1	81.8	39.7	21.7	13.2	16.8
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)