

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: P522797

Luminaire Tested: **GALN-SA6A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27138 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

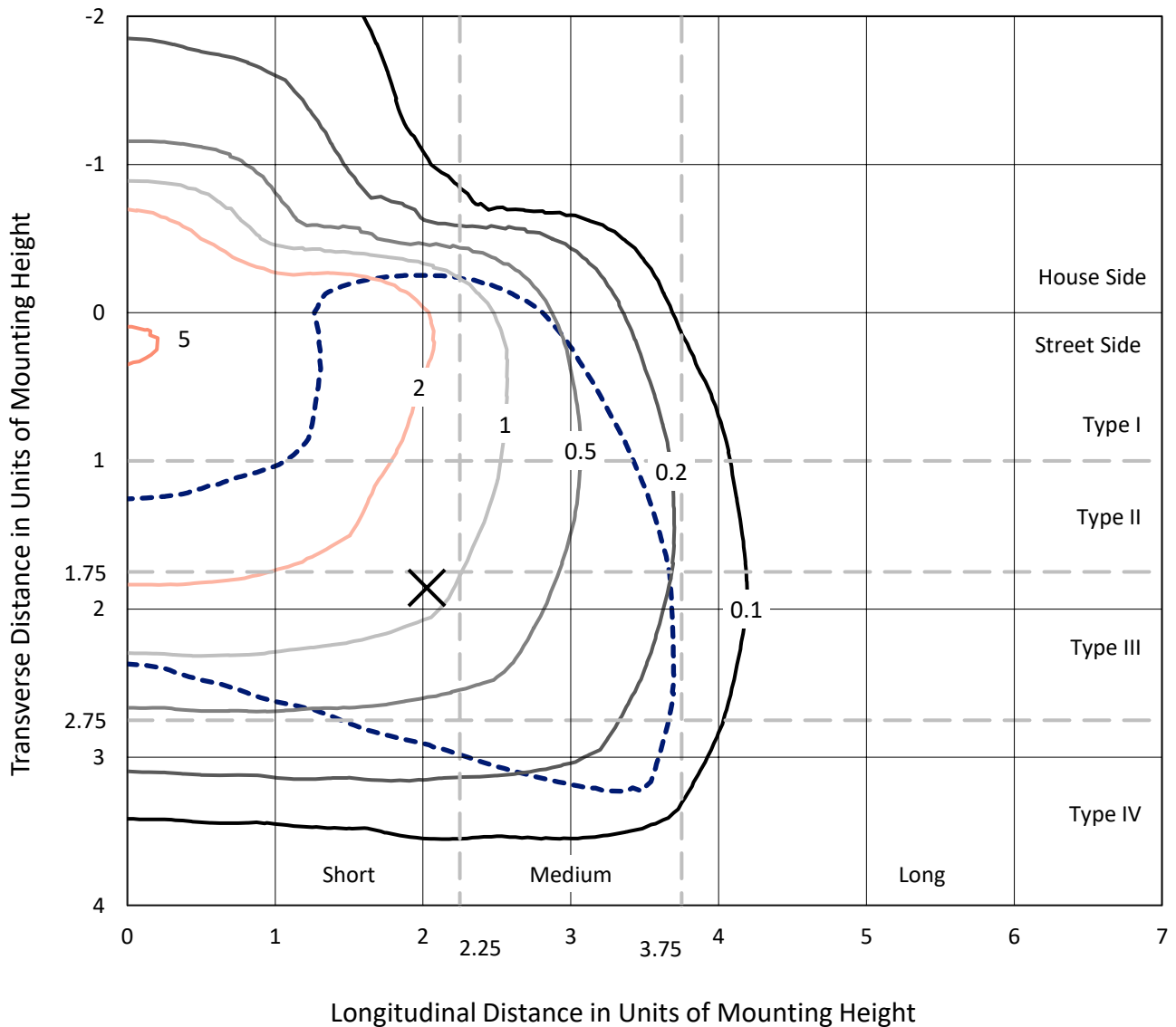
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

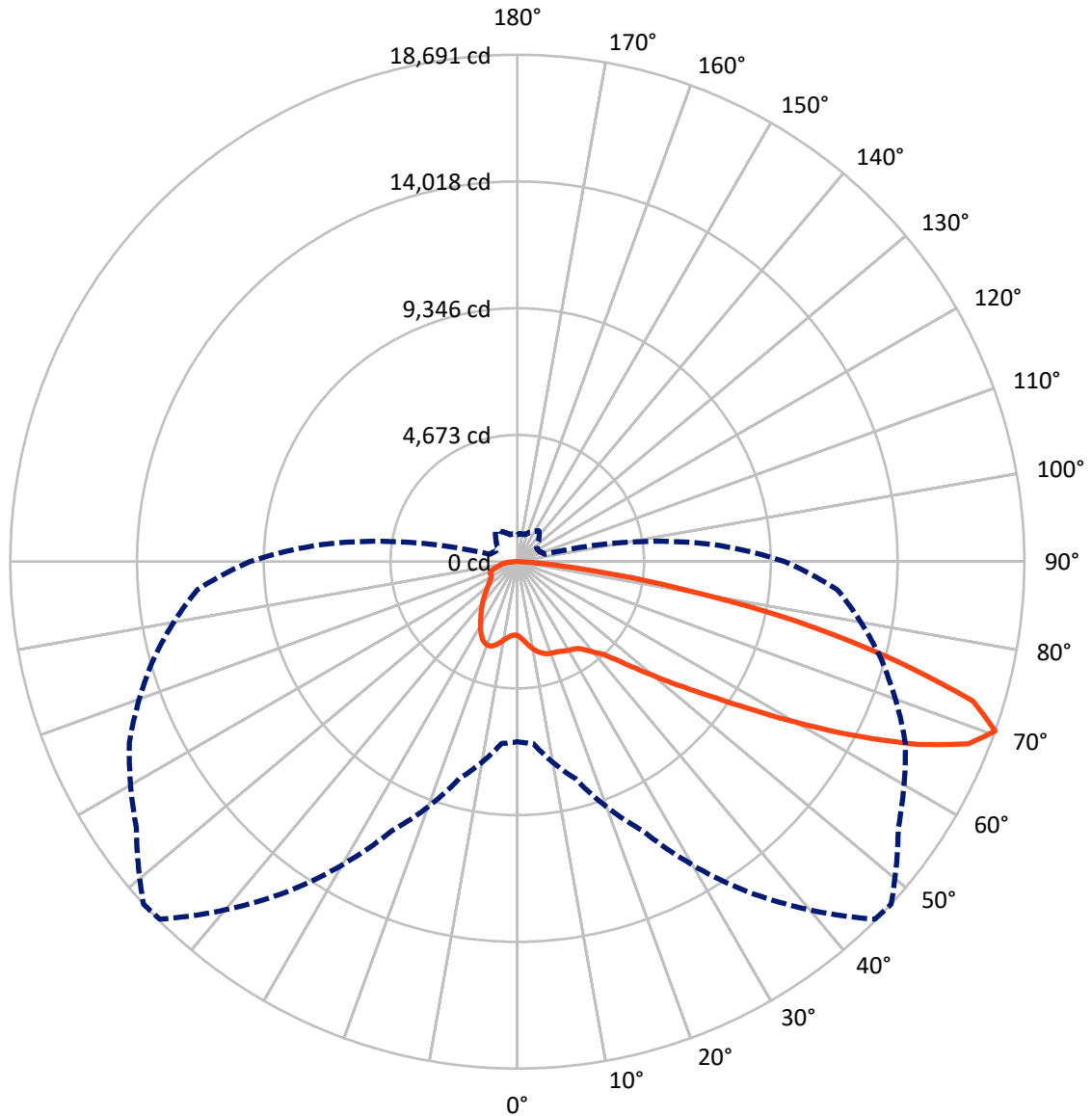
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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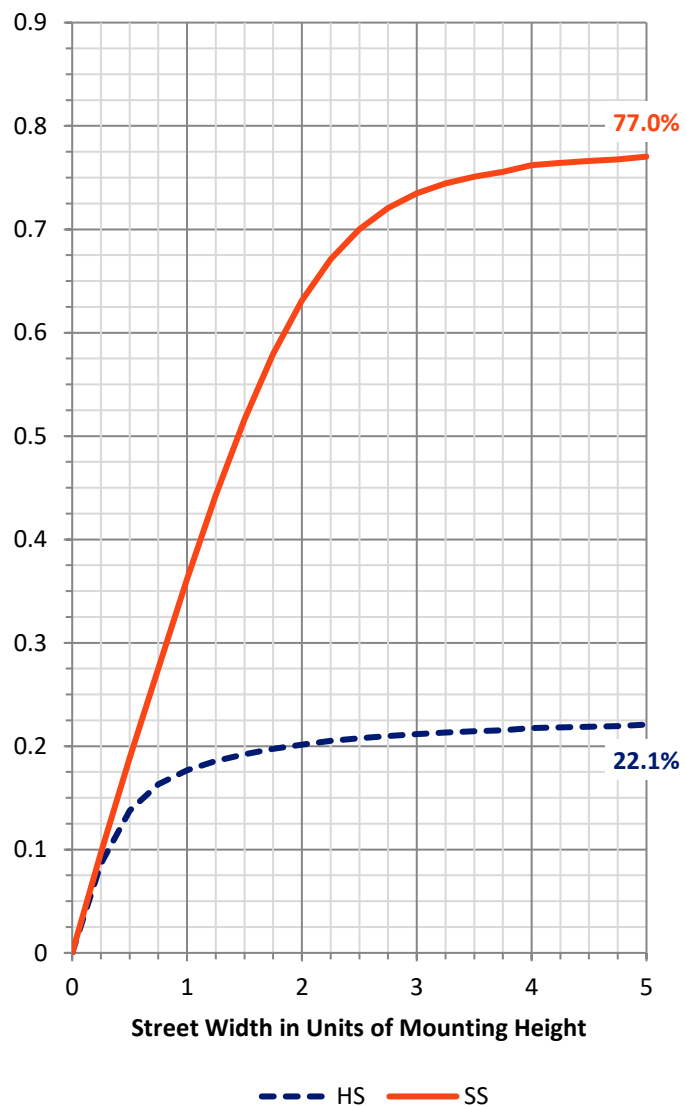
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6144.6	0.0	6144.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20993.4	0.0	20993.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	27138.0	0.0	27138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.8	1.0
10°-20°	938.8	3.5
20°-30°	1561.2	5.8
30°-40°	2212.8	8.2
40°-50°	3266.6	12.0
50°-60°	5657.8	20.8
60°-70°	7991.9	29.4
70°-80°	4594.2	16.9
80°-90°	633.9	2.3
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°	27138.0	100.0
0°-180°	27138.0	100.0

Coefficient of Utilization



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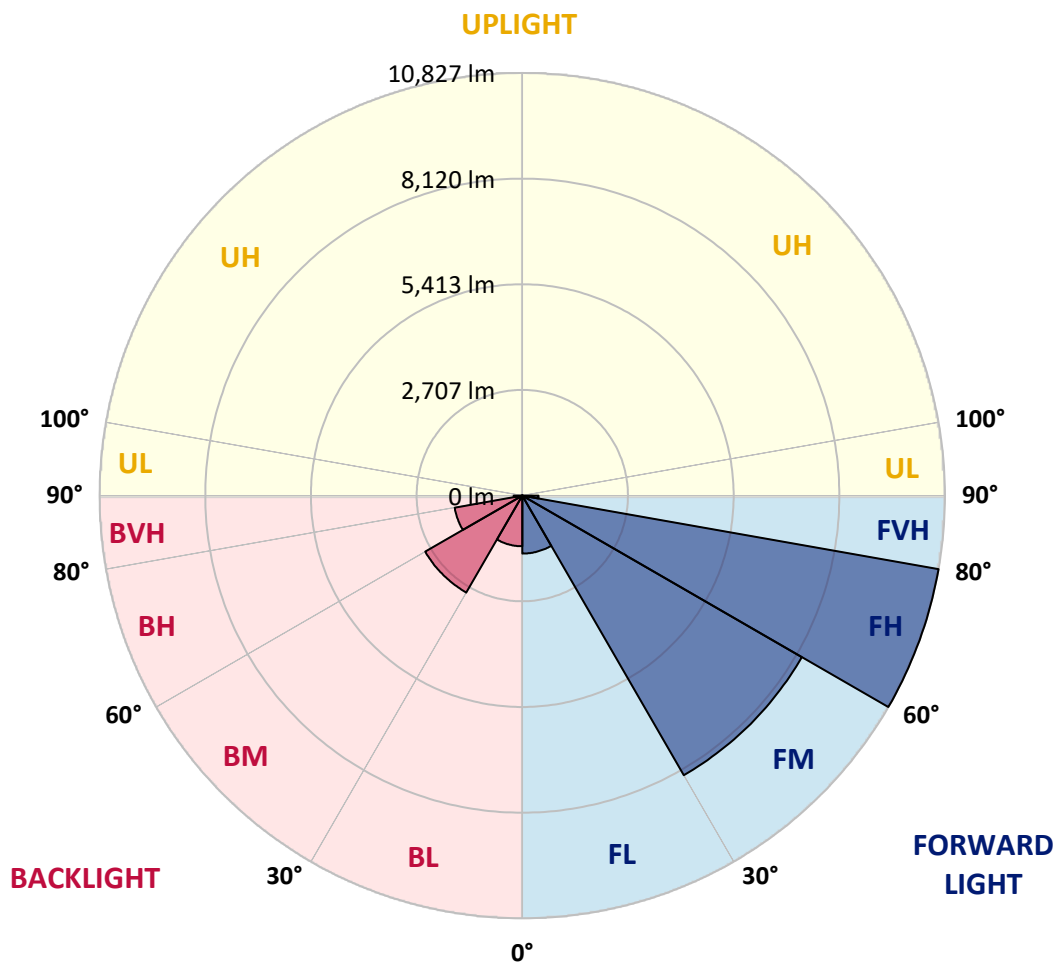
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1484.0	5.5			
FM	(30°-60°)	8268.4	30.5			
FH	(60°-80°)	10826.9	39.9			G4/12000
FVH	(80°-90°)	414.1	1.5			G3/500
BL	(0°-30°)	1296.9	4.8	B3/2500		
BM	(30°-60°)	2868.8	10.6	B3/5000		
BH	(60°-80°)	1759.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	219.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3
2.5°	2900.0	2889.9	2888.4	2866.6	2855.0	2833.2	2824.5	2804.2	2779.5	2754.8	2731.6
5°	3128.0	3128.0	3117.9	3087.4	3039.5	2990.1	2968.3	2929.1	2859.4	2802.7	2754.8
7.5°	3361.8	3364.7	3344.4	3299.4	3231.1	3151.3	3130.9	3072.9	2974.1	2891.3	2820.2
10°	3563.7	3563.7	3536.1	3475.1	3389.4	3302.3	3282.0	3216.6	3106.3	3003.2	2910.2
12.5°	3717.6	3717.6	3681.3	3601.5	3508.5	3430.1	3406.9	3344.4	3241.3	3126.6	3009.0
15°	3817.8	3810.6	3769.9	3679.9	3589.8	3521.6	3505.6	3453.3	3358.9	3242.8	3110.6
17.5°	3822.2	3819.3	3780.1	3704.6	3626.1	3579.7	3569.5	3534.7	3460.6	3350.2	3210.8
20°	3738.0	3743.8	3717.6	3663.9	3626.1	3605.8	3601.5	3589.8	3537.6	3434.5	3295.0
22.5°	3647.9	3658.1	3633.4	3604.4	3601.5	3621.8	3624.7	3627.6	3594.2	3494.0	3366.2
25°	3626.1	3633.4	3608.7	3582.6	3598.6	3652.3	3663.9	3675.5	3649.4	3565.2	3450.4
27.5°	3736.5	3730.7	3682.8	3626.1	3636.3	3708.9	3724.9	3738.0	3724.9	3652.3	3555.0
30°	4048.7	4029.9	3934.0	3768.5	3716.2	3767.0	3783.0	3819.3	3819.3	3765.6	3668.3
32.5°	4571.5	4535.2	4359.5	4034.2	3852.7	3822.2	3838.2	3897.7	3928.2	3886.1	3780.1
35°	5206.1	5168.4	4917.2	4480.0	4102.5	3932.6	3928.2	3995.0	4076.3	3981.9	3844.0
37.5°	5843.7	5804.4	5502.4	5011.5	4467.0	4164.9	4138.8	4162.0	4196.9	4024.0	3932.6
40°	6481.2	6434.7	6170.4	5605.5	4912.8	4472.8	4404.5	4300.0	4285.4	4162.0	4103.9
42.5°	7112.9	7070.8	6937.2	6272.1	5447.2	4773.4	4668.8	4488.8	4543.9	4469.9	4419.0
45°	7750.4	7753.3	7611.0	7019.9	6092.0	5328.1	5187.3	4905.5	5036.2	5008.6	5037.7
47.5°	8315.3	8308.0	8257.2	7746.0	6892.1	6042.6	5861.1	5534.3	5758.0	5859.6	6081.8
50°	8862.8	8858.4	8861.3	8569.4	7821.6	6892.1	6691.7	6349.0	6852.9	7205.8	7603.7
52.5°	9647.0	9671.7	9495.9	9419.0	8951.4	7895.6	7674.9	7320.5	8146.8	8703.0	9480.0
55°	10434.1	10413.7	10275.8	10355.6	10133.5	9083.5	8852.6	8570.9	9587.4	10195.9	11363.5
57.5°	10897.3	10904.6	11045.4	11436.1	11592.9	10564.8	10355.6	10137.8	11206.6	11637.9	13039.3
60°	11314.1	11347.5	11752.7	12490.4	12915.9	12384.4	12198.5	11986.5	12692.2	12863.6	14494.4
62.5°	11444.8	11547.9	12255.1	13358.8	14205.4	14437.8	14206.9	13739.3	14106.7	14039.9	15480.5
65°	10792.8	10933.6	12201.4	13684.1	15357.0	16386.6	16240.0	15371.5	15312.0	14909.7	15641.7
67.5°	9076.3	9217.1	10845.0	13001.6	15833.3	18074.1	17927.4	16562.3	16043.9	14991.1	14421.8
70°	6640.9	6729.5	8286.3	10946.7	14876.3	18640.4	18691.3	17143.2	15782.5	13885.9	11841.2
72.5°	3826.5	4022.6	5113.2	7701.0	12153.5	17208.6	17561.5	15935.0	14129.9	11584.2	8279.0
75°	1645.3	1649.7	2364.2	4247.7	8231.1	13832.2	14173.5	13209.2	11096.3	8010.3	4420.5
77.5°	782.7	797.3	1039.8	1896.6	4530.9	9556.9	10477.6	9331.8	7096.9	3848.3	1670.0
80°	508.3	518.4	636.1	941.0	2221.9	5541.6	6183.5	5383.3	3130.9	1375.2	720.3
82.5°	307.9	310.8	425.5	575.1	1222.8	2509.4	2958.1	2336.6	1336.0	823.4	424.0
85°	187.3	188.8	258.5	355.8	742.1	867.0	890.2	882.9	784.2	538.8	226.5
87.5°	90.0	92.9	133.6	168.5	291.9	268.7	254.1	294.8	370.3	290.4	97.3
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°	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3	2724.3
2.5°	2721.4	2717.1	2706.9	2702.5	2699.6	2701.1	2699.6	2699.6	2701.1	2701.1	2701.1
5°	2734.5	2727.2	2711.3	2711.3	2720.0	2740.3	2759.2	2773.7	2789.7	2788.2	2788.2
7.5°	2791.1	2778.1	2759.2	2765.0	2786.8	2818.7	2852.1	2884.1	2916.0	2918.9	2917.5
10°	2873.9	2860.8	2840.5	2847.8	2882.6	2930.5	2972.7	3019.1	3054.0	3064.1	3061.2
12.5°	2968.3	2942.2	2924.7	2945.1	3000.2	3064.1	3104.8	3139.7	3164.3	3178.9	3173.1
15°	3064.1	3039.5	3019.1	3061.2	3128.0	3187.6	3207.9	3213.7	3218.1	3232.6	3229.7
17.5°	3157.1	3123.7	3116.4	3171.6	3235.5	3261.6	3250.0	3225.3	3206.5	3218.1	3216.6
20°	3239.9	3213.7	3210.8	3266.0	3290.7	3266.0	3216.6	3173.1	3139.7	3142.6	3141.1
22.5°	3318.3	3297.9	3300.9	3324.1	3284.9	3200.7	3119.3	3059.8	3023.5	3030.7	3035.1
25°	3405.4	3385.1	3392.3	3354.6	3225.3	3078.7	2961.0	2910.2	2895.7	2910.2	2920.4
27.5°	3518.7	3505.6	3501.3	3356.0	3119.3	2898.6	2765.0	2746.1	2759.2	2791.1	2807.1
30°	3640.7	3640.7	3617.4	3331.3	2974.1	2682.2	2566.0	2568.9	2614.0	2659.0	2675.0
32.5°	3758.3	3783.0	3710.4	3264.5	2786.8	2471.6	2383.1	2386.0	2425.2	2480.4	2494.9
35°	3855.6	3926.8	3790.2	3142.6	2566.0	2294.5	2227.7	2188.5	2189.9	2232.0	2243.7
37.5°	3989.2	4121.3	3836.7	2961.0	2330.8	2143.4	2067.9	1999.7	1954.7	1937.2	1937.2
40°	4221.5	4416.1	3848.3	2692.4	2108.6	1999.7	1892.2	1810.9	1723.8	1645.3	1630.8
42.5°	4615.1	4860.5	3825.1	2383.1	1908.2	1841.4	1736.8	1636.6	1516.1	1405.7	1397.0
45°	5312.2	5438.5	3762.7	2062.1	1729.6	1688.9	1587.3	1478.3	1350.5	1251.8	1244.5
47.5°	6428.9	6250.3	3679.9	1777.5	1566.9	1555.3	1476.9	1350.5	1222.8	1154.5	1147.2
50°	8059.7	7528.2	3668.3	1571.3	1436.2	1442.0	1378.1	1262.0	1150.1	1093.5	1084.8
52.5°	10023.1	9071.9	3745.2	1426.1	1321.5	1343.3	1311.3	1203.9	1105.1	1057.2	1048.5
55°	11928.4	10460.2	3791.7	1312.8	1214.0	1254.7	1259.1	1169.0	1079.0	1031.1	1025.3
57.5°	13475.0	11505.8	3585.5	1209.7	1121.1	1183.5	1215.5	1148.7	1065.9	1029.6	1023.8
60°	14551.1	11999.5	2998.8	1118.2	1052.8	1126.9	1199.5	1150.1	1097.9	1102.2	1105.1
62.5°	14893.8	11780.3	2249.5	1049.9	1006.4	1108.0	1225.7	1209.7	1156.0	1189.4	1195.2
65°	14326.0	10874.1	1630.8	996.2	965.7	1121.1	1304.1	1253.2	1135.6	1160.3	1160.3
67.5°	12425.0	9368.1	1269.2	946.8	919.2	1145.8	1382.5	1248.9	1087.7	1116.7	1090.6
70°	9856.1	7246.5	1057.2	891.7	869.9	1109.5	1389.8	1203.9	1031.1	1036.9	987.5
72.5°	6540.7	4764.7	909.1	839.4	794.4	997.7	1330.2	1145.8	975.9	942.5	893.1
75°	3205.0	2375.8	792.9	774.0	695.6	868.4	1248.9	1090.6	916.3	864.1	836.5
77.5°	1241.6	1010.7	676.7	691.2	605.6	765.3	1141.4	1012.2	837.9	766.8	745.0
80°	602.7	573.6	554.7	576.5	498.1	652.0	1042.7	943.9	765.3	686.9	654.9
82.5°	374.7	354.3	425.5	448.7	383.4	595.4	988.9	885.8	673.8	569.3	543.1
85°	190.2	203.3	284.6	306.4	274.5	473.4	814.7	665.1	486.5	403.7	406.6
87.5°	72.6	97.3	149.6	161.2	146.7	249.8	448.7	387.7	312.2	212.0	196.0
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)