

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: P650937

Luminaire Tested: **GALN-SA5C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650937  
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-SA5C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29631 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

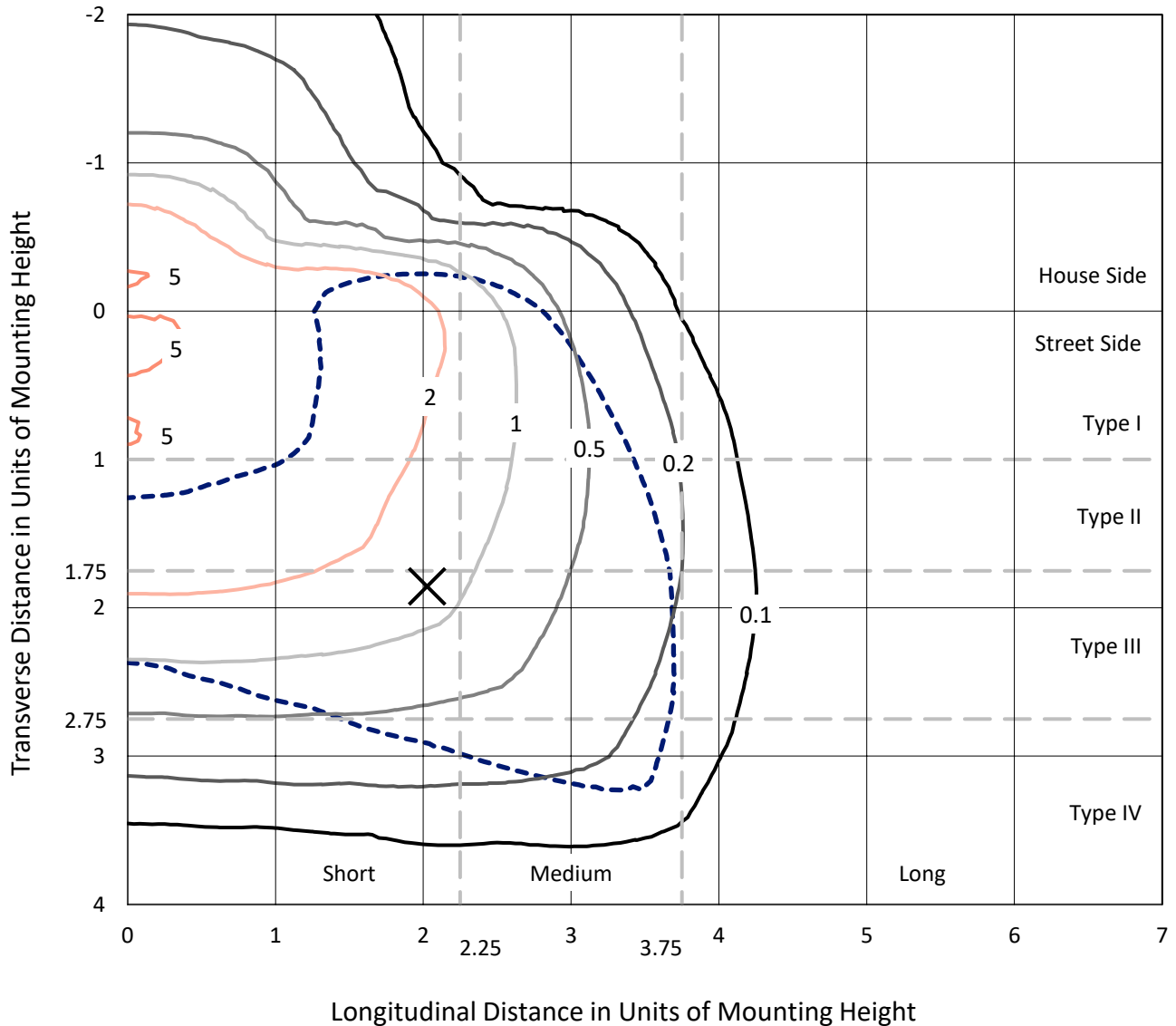
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

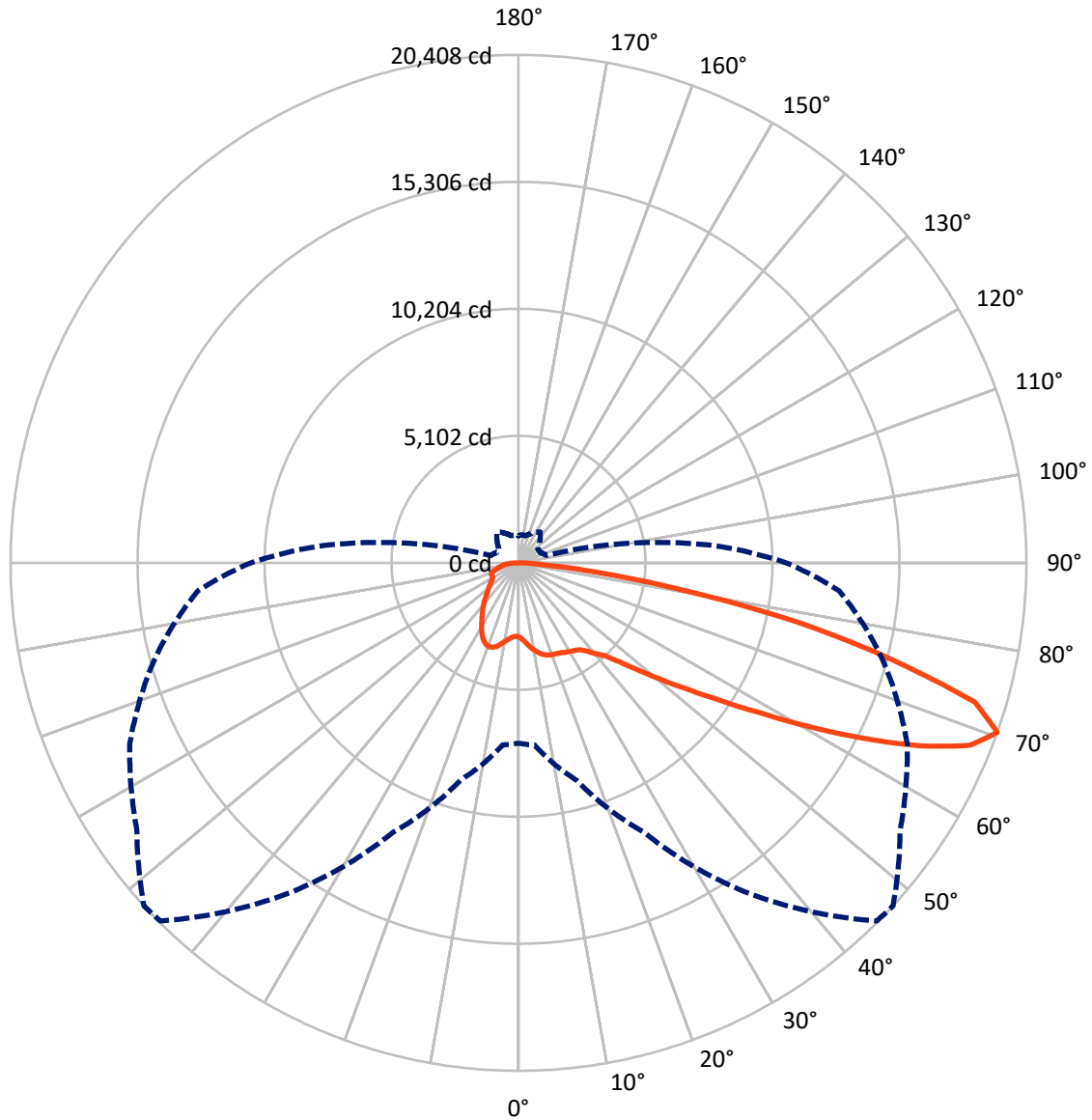
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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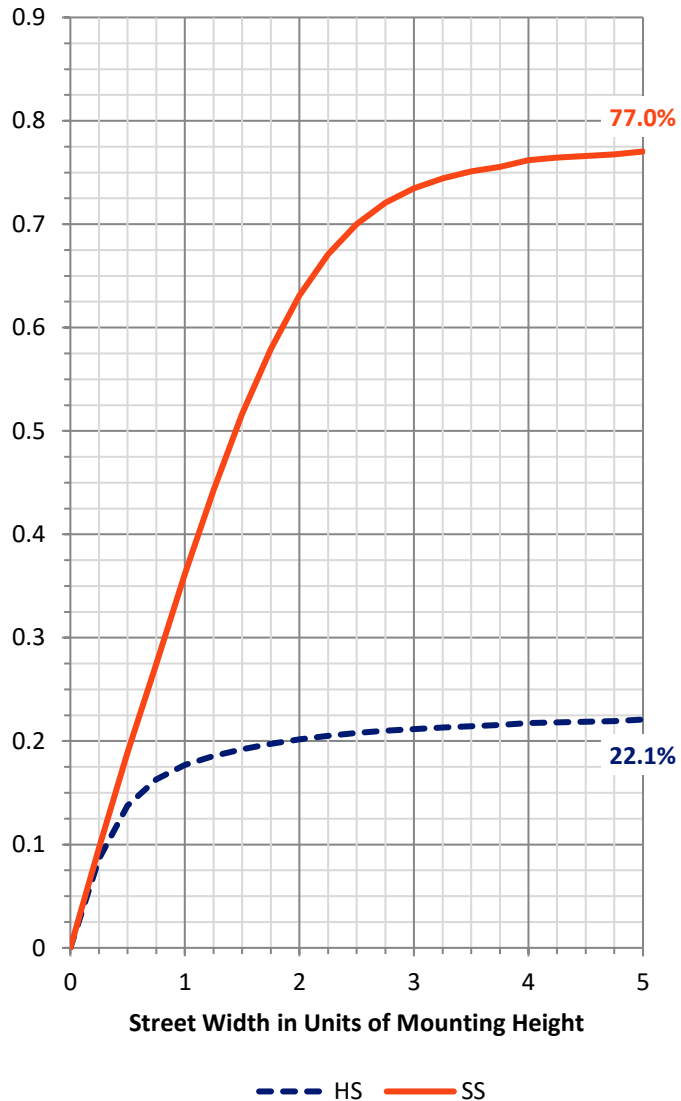
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6709.0	0.0	6709.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	22921.9	0.0	22921.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	29631.0	0.0	29631.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.6	1.0
10°-20°	1025.1	3.5
20°-30°	1704.6	5.8
30°-40°	2416.1	8.2
40°-50°	3566.6	12.0
50°-60°	6177.6	20.8
60°-70°	8726.0	29.4
70°-80°	5016.2	16.9
80°-90°	692.1	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°	29631.0	100.0
0°-180°	29631.0	100.0

**Coefficient of Utilization**

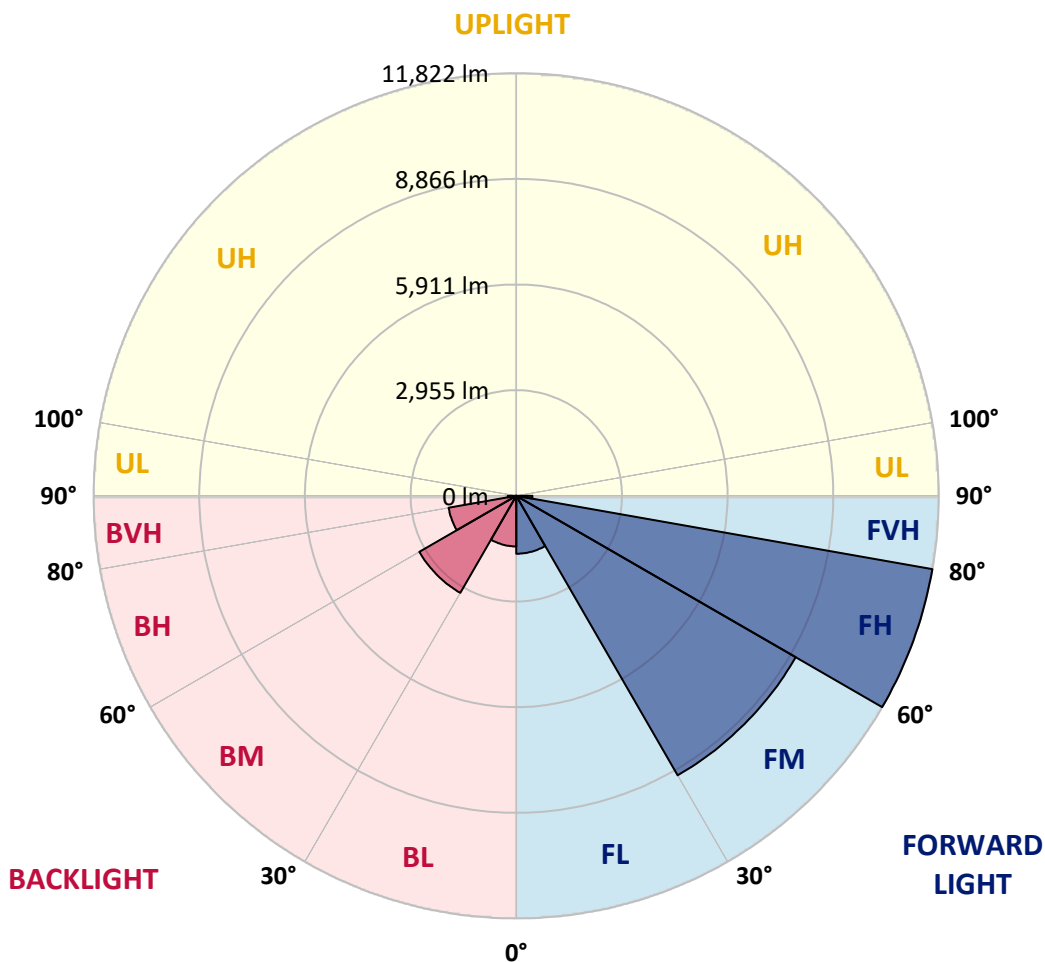


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.3	5.5			
FM (30°-60°)	9028.0	30.5			
FH (60°-80°)	11821.5	39.9			G4/12000
FVH (80°-90°)	452.1	1.5			G3/500
BL (0°-30°)	1416.0	4.8	B3/2500		
BM (30°-60°)	3132.3	10.6	B3/5000		
BH (60°-80°)	1920.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	240.0	0.8			G3/500
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°	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6
2.5°	3166.4	3155.3	3153.8	3129.9	3117.3	3093.5	3084.0	3061.8	3034.8	3007.9	2982.5
5°	3415.4	3415.4	3404.3	3371.0	3318.7	3264.8	3241.0	3198.2	3122.0	3060.2	3007.9
7.5°	3670.7	3673.8	3651.6	3602.5	3528.0	3440.8	3418.6	3355.2	3247.4	3156.9	3079.2
10°	3891.1	3891.1	3860.9	3794.3	3700.8	3605.6	3583.5	3512.1	3391.6	3279.1	3177.6
12.5°	4059.2	4059.2	4019.5	3932.3	3830.8	3745.2	3719.8	3651.6	3539.1	3413.8	3285.4
15°	4168.6	4160.6	4116.2	4017.9	3919.6	3845.1	3827.6	3770.5	3667.5	3540.6	3396.4
17.5°	4173.3	4170.1	4127.3	4044.9	3959.3	3908.5	3897.4	3859.3	3778.5	3658.0	3505.8
20°	4081.4	4087.7	4059.2	4000.5	3959.3	3937.1	3932.3	3919.6	3862.5	3749.9	3597.7
22.5°	3983.1	3994.2	3967.2	3935.5	3932.3	3954.5	3957.7	3960.9	3924.4	3814.9	3675.4
25°	3959.3	3967.2	3940.3	3911.7	3929.2	3987.8	4000.5	4013.2	3984.7	3892.7	3767.4
27.5°	4079.8	4073.4	4021.1	3959.3	3970.4	4049.7	4067.1	4081.4	4067.1	3987.8	3881.6
30°	4420.6	4400.0	4295.4	4114.7	4057.6	4113.1	4130.5	4170.1	4170.1	4111.5	4005.3
32.5°	4991.5	4951.8	4760.0	4404.8	4206.6	4173.3	4190.8	4255.8	4289.0	4243.1	4127.3
35°	5684.4	5643.2	5368.9	4891.6	4479.3	4293.8	4289.0	4362.0	4450.8	4347.7	4197.1
37.5°	6380.5	6337.7	6007.9	5471.9	4877.3	4547.5	4518.9	4544.3	4582.4	4393.7	4293.8
40°	7076.5	7025.8	6737.3	6120.5	5364.1	4883.7	4809.2	4695.0	4679.2	4544.3	4480.9
42.5°	7766.3	7720.3	7574.5	6848.2	5947.6	5211.8	5097.7	4901.1	4961.3	4880.5	4825.0
45°	8462.4	8465.5	8310.2	7664.8	6651.6	5817.6	5663.8	5356.2	5498.9	5468.8	5500.5
47.5°	9079.2	9071.2	9015.8	8457.6	7525.3	6597.7	6399.5	6042.8	6286.9	6397.9	6640.5
50°	9677.0	9672.2	9675.4	9356.6	8540.0	7525.3	7306.4	6932.3	7482.5	7867.7	8302.2
52.5°	10533.2	10560.1	10368.3	10284.3	9773.7	8620.9	8379.9	7993.0	8895.3	9502.5	10350.8
55°	11392.5	11370.3	11219.7	11306.9	11064.4	9917.9	9665.9	9358.2	10468.2	11132.5	12407.4
57.5°	11898.4	11906.3	12060.1	12486.7	12657.9	11535.2	11306.9	11069.1	12236.1	12707.0	14237.1
60°	12353.4	12389.9	12832.3	13637.7	14102.4	13522.0	13319.1	13087.6	13858.2	14045.3	15825.9
62.5°	12496.2	12608.7	13380.9	14586.0	15510.4	15764.0	15512.0	15001.4	15402.6	15329.6	16902.5
65°	11784.2	11938.0	13322.2	14941.1	16767.8	17891.9	17731.8	16783.6	16718.6	16279.4	17078.5
67.5°	9910.0	10063.8	11841.3	14195.9	17287.8	19734.4	19574.3	18083.8	17517.8	16368.2	15746.6
70°	7250.9	7347.6	9047.5	11952.3	16242.9	20352.8	20408.3	18718.1	17232.3	15161.5	12929.0
72.5°	4178.1	4392.1	5582.9	8408.5	13269.9	18789.4	19174.7	17398.9	15427.9	12648.4	9039.5
75°	1796.5	1801.3	2581.4	4637.9	8987.2	15102.8	15475.5	14422.6	12115.6	8746.1	4826.6
77.5°	854.6	870.5	1135.3	2070.8	4947.1	10434.9	11440.1	10189.1	7748.8	4201.9	1823.5
80°	555.0	566.1	694.5	1027.4	2425.9	6050.7	6751.5	5877.8	3418.6	1501.6	786.4
82.5°	336.1	339.3	464.6	627.9	1335.1	2739.9	3229.9	2551.3	1458.7	899.0	463.0
85°	204.5	206.1	282.2	388.5	810.2	946.6	971.9	964.0	856.2	588.3	247.3
87.5°	98.3	101.5	145.9	183.9	318.7	293.3	277.4	321.9	404.4	317.1	106.2
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°	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6	2974.6
2.5°	2971.4	2966.6	2955.5	2950.8	2947.6	2949.2	2947.6	2947.6	2949.2	2949.2	2949.2
5°	2985.7	2977.7	2960.3	2960.3	2969.8	2992.0	3012.6	3028.5	3045.9	3044.3	3044.3
7.5°	3047.5	3033.2	3012.6	3019.0	3042.7	3077.6	3114.1	3149.0	3183.9	3187.1	3185.5
10°	3137.9	3123.6	3101.4	3109.3	3147.4	3199.8	3245.8	3296.5	3334.6	3345.6	3342.5
12.5°	3241.0	3212.5	3193.4	3215.6	3275.9	3345.6	3390.0	3428.1	3455.0	3470.9	3464.6
15°	3345.6	3318.7	3296.5	3342.5	3415.4	3480.4	3502.6	3508.9	3513.7	3529.6	3526.4
17.5°	3447.1	3410.6	3402.7	3463.0	3532.7	3561.3	3548.6	3521.6	3501.0	3513.7	3512.1
20°	3537.5	3508.9	3505.8	3566.0	3593.0	3566.0	3512.1	3464.6	3428.1	3431.3	3429.7
22.5°	3623.1	3600.9	3604.1	3629.4	3586.6	3494.7	3405.9	3340.9	3301.3	3309.2	3313.9
25°	3718.2	3696.0	3703.9	3662.7	3521.6	3361.5	3233.1	3177.6	3161.7	3177.6	3188.7
27.5°	3841.9	3827.6	3822.8	3664.3	3405.9	3164.9	3019.0	2998.3	3012.6	3047.5	3064.9
30°	3975.1	3975.1	3949.8	3637.4	3247.4	2928.6	2801.8	2804.9	2854.1	2903.2	2920.7
32.5°	4103.6	4130.5	4051.2	3564.4	3042.7	2698.7	2602.0	2605.2	2648.0	2708.2	2724.1
35°	4209.8	4287.5	4138.4	3431.3	2801.8	2505.3	2432.3	2389.5	2391.1	2437.0	2449.7
37.5°	4355.6	4499.9	4189.2	3233.1	2544.9	2340.3	2257.9	2183.4	2134.2	2115.2	2115.2
40°	4609.4	4821.8	4201.9	2939.7	2302.3	2183.4	2066.0	1977.3	1882.1	1796.5	1780.6
42.5°	5039.0	5307.0	4176.5	2602.0	2083.5	2010.6	1896.4	1787.0	1655.3	1534.8	1525.3
45°	5800.1	5938.0	4108.3	2251.5	1888.5	1844.1	1733.0	1614.1	1474.6	1366.8	1358.9
47.5°	7019.5	6824.5	4017.9	1940.8	1710.8	1698.1	1612.5	1474.6	1335.1	1260.6	1252.6
50°	8800.1	8219.8	4005.3	1715.6	1568.1	1574.5	1504.7	1377.9	1255.8	1194.0	1184.5
52.5°	10943.8	9905.3	4089.3	1557.0	1442.9	1466.7	1431.8	1314.5	1206.7	1154.4	1144.8
55°	13024.1	11421.1	4140.0	1433.4	1325.6	1370.0	1374.7	1276.4	1178.1	1125.8	1119.5
57.5°	14712.8	12562.8	3914.9	1320.8	1224.1	1292.3	1327.2	1254.2	1163.9	1124.2	1117.9
60°	15887.8	13101.9	3274.3	1220.9	1149.6	1230.5	1309.7	1255.8	1198.7	1203.5	1206.7
62.5°	16261.9	12862.4	2456.1	1146.4	1098.9	1209.8	1338.3	1320.8	1262.2	1298.6	1305.0
65°	15642.0	11873.0	1780.6	1087.7	1054.4	1224.1	1423.9	1368.4	1240.0	1266.9	1266.9
67.5°	13566.4	10228.7	1385.8	1033.8	1003.6	1251.1	1509.5	1363.6	1187.6	1219.4	1190.8
70°	10761.5	7912.1	1154.4	973.5	949.7	1211.4	1517.4	1314.5	1125.8	1132.2	1078.2
72.5°	7141.5	5202.3	992.5	916.4	867.3	1089.3	1452.4	1251.1	1065.5	1029.0	975.1
75°	3499.4	2594.1	865.7	845.1	759.5	948.2	1363.6	1190.8	1000.5	943.4	913.3
77.5°	1355.7	1103.6	738.9	754.7	661.2	835.6	1246.3	1105.2	914.9	837.2	813.4
80°	658.0	626.3	605.7	629.5	543.9	711.9	1138.5	1030.6	835.6	750.0	715.1
82.5°	409.1	386.9	464.6	490.0	418.6	650.1	1079.8	967.2	735.7	621.6	593.0
85°	207.7	222.0	310.7	334.5	299.6	516.9	889.5	726.2	531.2	440.8	444.0
87.5°	79.3	106.2	163.3	176.0	160.1	272.7	490.0	423.4	340.9	231.5	214.0
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)