

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: P651540

Luminaire Tested: **GALN-SA7D-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45214.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

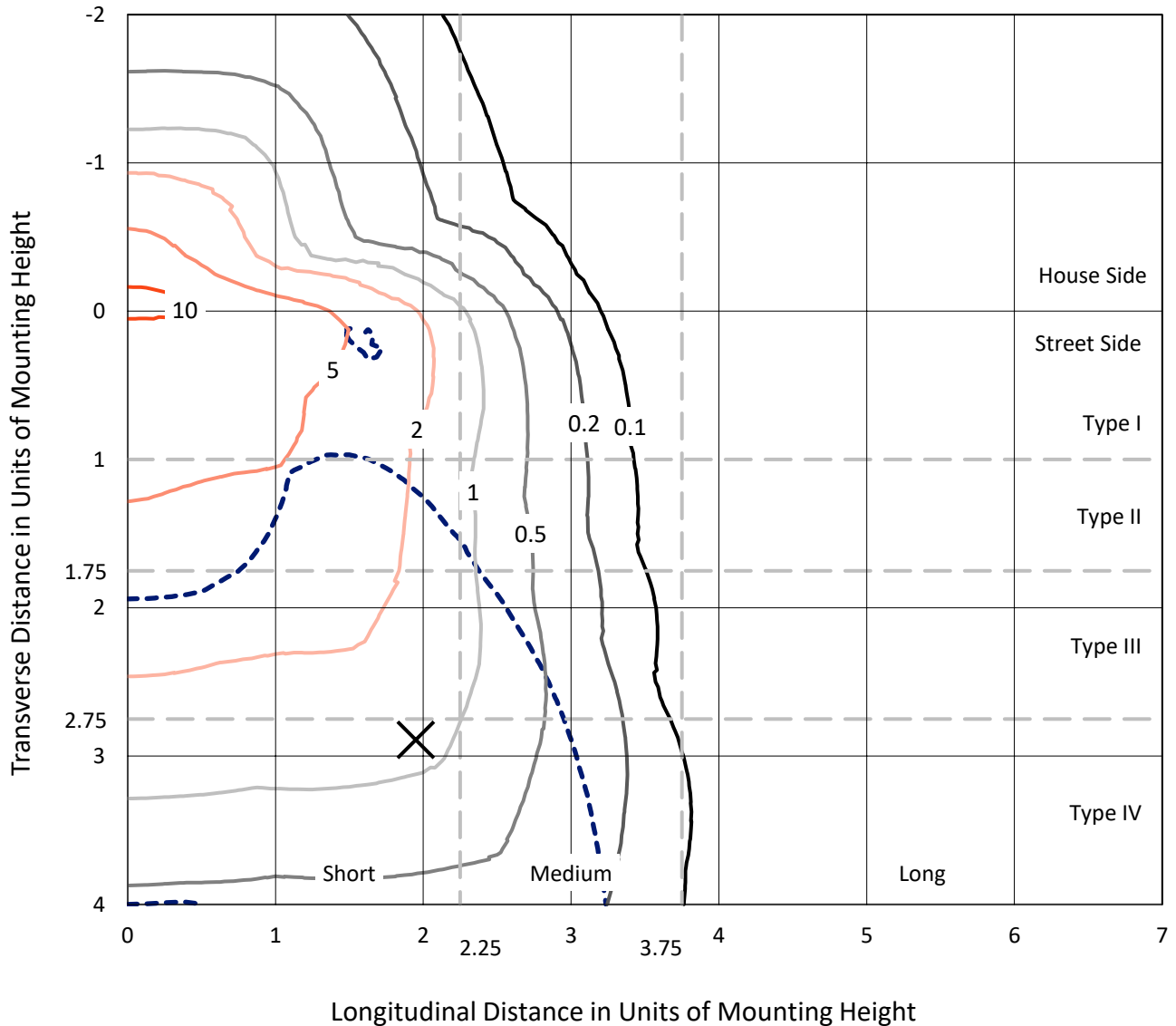
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

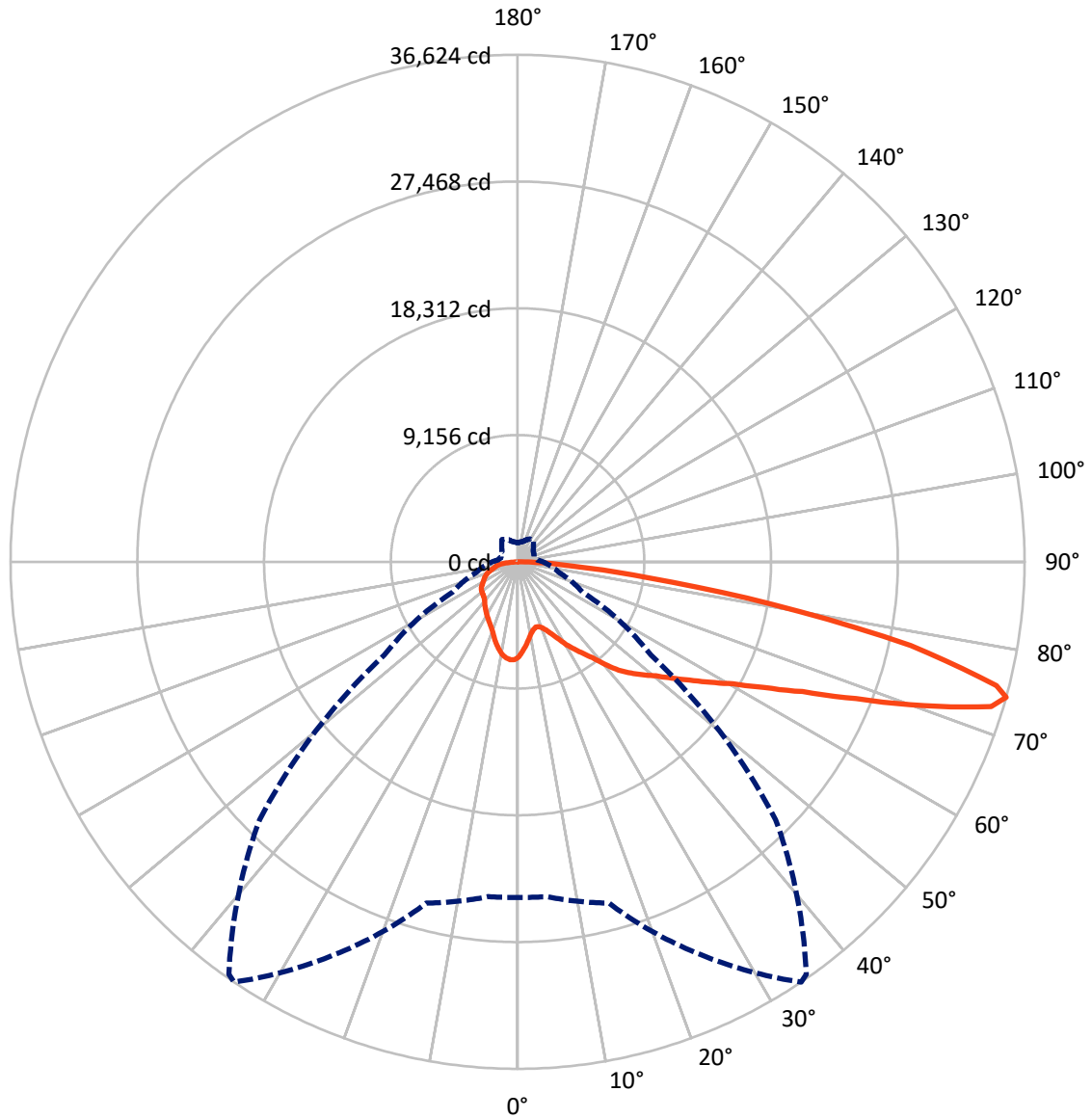
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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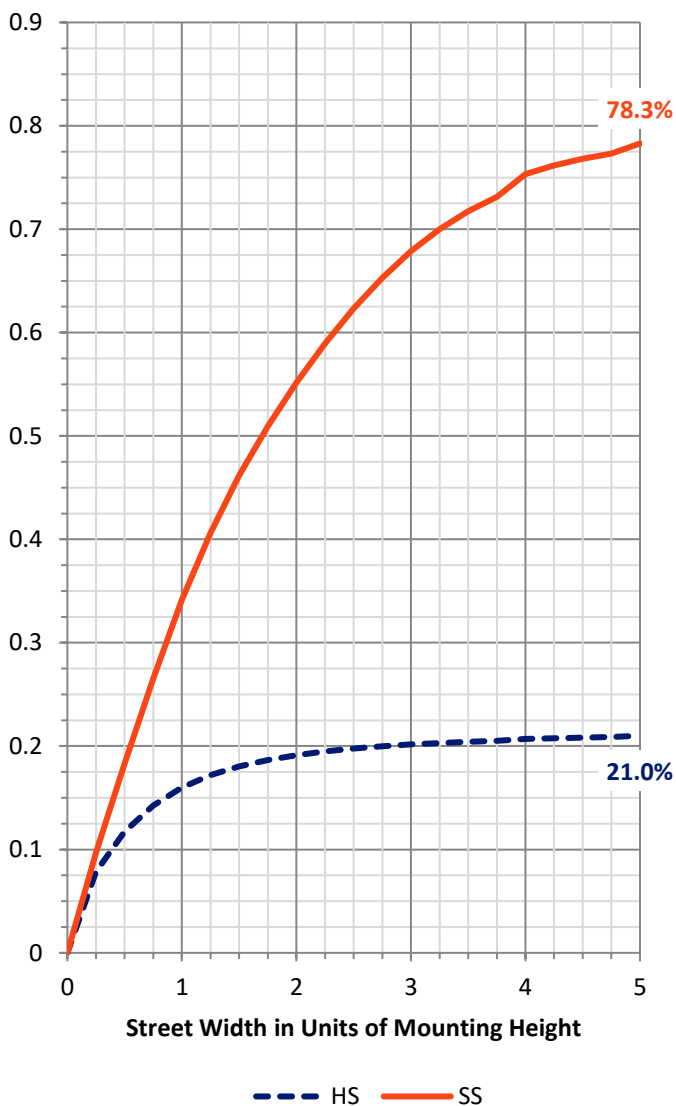
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9622.0	0.0	9622.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	35592.7	0.0	35592.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	45214.7	0.0	45214.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.8	1.4
10°-20°	1718.7	3.8
20°-30°	2833.6	6.3
30°-40°	4244.5	9.4
40°-50°	6170.3	13.6
50°-60°	8618.4	19.1
60°-70°	10789.8	23.9
70°-80°	8922.3	19.7
80°-90°	1289.2	2.9
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°	45214.7	100.0
0°-180°	45214.7	100.0

Coefficient of Utilization

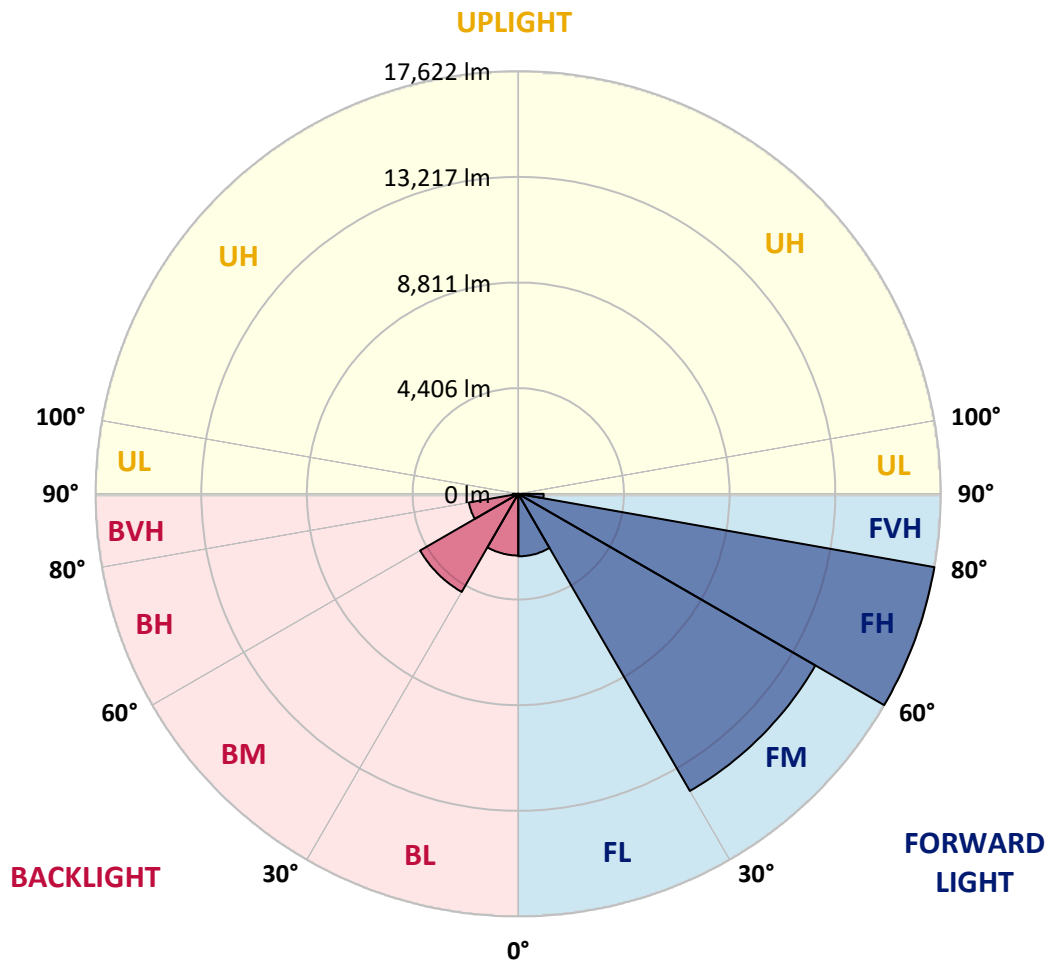


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.4	5.8			
FM (30°-60°)	14307.8	31.6			
FH (60°-80°)	17622.3	39.0			G5
FVH (80°-90°)	1056.2	2.3			G5
BL (0°-30°)	2573.7	5.7	B4/5000		
BM (30°-60°)	4725.4	10.5	B3/5000		
BH (60°-80°)	2089.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	233.0	0.5			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3
2.5°	6379.9	6412.5	6429.9	6492.6	6507.7	6527.7	6580.2	6650.4	6740.5	6820.8	6890.9
5°	5848.8	5898.9	5929.0	5984.1	6091.8	6101.8	6242.1	6402.4	6585.3	6755.6	6895.9
7.5°	5345.4	5400.5	5425.5	5525.7	5668.5	5691.0	5896.4	6149.4	6455.0	6713.0	6928.4
10°	4967.1	4994.7	5049.8	5125.0	5295.3	5310.3	5578.4	5916.4	6312.2	6693.0	6983.6
12.5°	4761.7	4776.8	4789.3	4869.5	5037.3	5059.8	5340.3	5723.6	6199.5	6708.0	7073.7
15°	4791.8	4796.8	4741.7	4756.7	4892.0	4924.6	5202.6	5595.8	6129.4	6745.6	7209.0
17.5°	5044.8	5027.2	4892.0	4821.9	4917.1	4932.0	5175.0	5545.7	6096.8	6815.7	7349.2
20°	5443.0	5418.0	5185.0	5029.8	5084.9	5097.4	5265.2	5583.3	6129.4	6930.9	7567.1
22.5°	5939.1	5929.0	5575.8	5388.0	5385.4	5385.4	5473.1	5718.6	6227.1	7088.8	7795.1
25°	6632.9	6580.2	6119.4	5876.4	5808.8	5803.7	5793.7	5941.5	6352.3	7256.6	8065.6
27.5°	7344.3	7254.0	6843.3	6470.1	6324.7	6307.2	6242.1	6257.1	6512.6	7447.0	8373.8
30°	7982.9	7925.3	7539.6	7126.3	6953.5	6913.4	6733.0	6650.4	6780.6	7790.1	8864.7
32.5°	8471.4	8436.3	8135.7	7760.1	7504.6	7497.0	7234.0	7166.4	7199.0	8205.9	9425.8
35°	8867.2	8879.7	8726.9	8401.3	8108.2	8065.6	7890.3	7805.2	7710.0	8807.1	10132.1
37.5°	9408.3	9435.8	9425.8	9145.2	8787.0	8797.0	8757.0	8616.7	8363.7	9478.4	10916.2
40°	10004.4	10024.5	10021.9	9914.2	9726.3	9736.3	9721.4	9561.1	9182.8	10332.5	11787.9
42.5°	10828.5	10733.3	10485.3	10593.1	10703.2	10750.8	10853.5	10700.7	10182.2	11244.3	12606.9
45°	11750.3	11570.0	11008.9	11059.0	11467.2	11557.4	12123.5	11913.1	11266.9	12291.3	13571.3
47.5°	12331.4	12153.5	11680.1	11670.1	12211.2	12298.9	13300.8	13223.1	12253.8	13421.0	14748.6
50°	12849.9	12824.8	12291.3	12419.0	12947.6	13077.9	14583.3	14510.6	13238.2	14753.6	16031.1
52.5°	13618.9	13416.1	12990.2	13253.2	13952.0	14122.4	15855.7	15642.9	14142.4	15930.9	17276.0
55°	13964.6	13917.0	13892.0	14119.9	15079.2	15202.0	17093.2	16604.7	14914.0	16927.8	18222.9
57.5°	14888.9	14801.2	15049.2	15204.5	16406.8	16594.7	18385.7	17609.1	15590.2	17719.4	18683.7
60°	16086.2	16038.6	16266.5	16547.1	17889.7	18175.3	19858.5	18465.8	16133.8	18117.7	18430.8
62.5°	17874.7	17869.7	17827.1	18428.2	19991.2	20254.3	21549.3	19299.9	16218.9	17819.5	17123.2
65°	20439.7	20349.4	19978.7	20635.0	22606.3	22914.5	23310.2	19765.9	15705.4	16289.1	14417.9
67.5°	23122.4	23117.3	22816.8	23668.4	26361.1	26679.2	25512.0	19663.2	14280.2	13195.6	10239.8
70°	25346.6	25238.9	25622.2	27891.6	31158.0	31526.1	27438.2	18453.3	11374.5	8714.4	6084.3
72.5°	25880.2	25885.2	26681.7	31147.9	35764.4	35822.0	28132.0	14956.5	7612.2	4806.8	3043.4
74°	24237.0	24279.6	25514.5	31310.7	36623.5	36363.0	26358.6	11755.3	5147.5	3138.6	2194.3
75°	22122.9	21854.9	23640.8	30226.1	35731.8	35451.3	24282.1	9433.3	3927.6	2507.4	1921.3
77.5°	11827.9	12101.0	14856.3	22556.2	29028.8	28705.7	16464.4	4523.7	2121.6	1745.9	1382.7
80°	4210.6	4644.0	6527.7	11802.9	18611.1	18711.3	7857.7	2074.0	1492.9	1287.5	976.9
82.5°	1718.3	1765.9	2803.0	5237.7	9450.8	9541.0	3208.8	1232.4	1067.1	886.8	583.7
85°	671.3	691.3	1239.9	2354.5	4032.8	4295.8	1109.6	651.3	656.2	508.5	298.1
87.5°	225.5	255.5	508.5	784.0	1370.2	1342.6	323.1	192.8	235.5	220.4	92.7
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°	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3	6903.3
2.5°	6926.0	6973.5	7006.1	7041.2	7073.7	7083.7	7076.3	7098.8	7101.2	7103.8	7106.3
5°	6966.0	7031.1	7093.8	7128.8	7143.9	7131.3	7088.8	7066.2	7046.2	7031.1	7036.1
7.5°	7021.1	7113.8	7171.4	7186.4	7146.4	7088.8	6983.6	6900.9	6848.3	6813.2	6810.7
10°	7106.3	7196.4	7244.0	7201.5	7091.2	6950.9	6785.7	6630.4	6512.6	6477.6	6475.0
12.5°	7214.0	7316.7	7314.2	7189.0	6996.0	6745.6	6477.6	6297.2	6136.9	6056.7	6089.3
15°	7354.3	7431.9	7359.3	7133.9	6828.2	6485.0	6154.4	5909.0	5728.6	5643.4	5648.5
17.5°	7517.1	7584.7	7391.8	7036.1	6592.8	6151.9	5768.7	5535.7	5393.0	5330.3	5325.3
20°	7720.0	7740.0	7391.8	6865.8	6289.7	5763.7	5398.0	5235.1	5155.0	5122.4	5132.5
22.5°	7937.9	7897.8	7351.8	6625.3	5891.5	5357.9	5112.4	5039.8	4999.7	4994.7	4999.7
25°	8183.4	8070.7	7269.1	6299.7	5475.6	5007.2	4864.4	4877.0	4884.4	4884.4	4902.0
27.5°	8483.9	8258.5	7131.3	5888.9	4989.7	4681.6	4641.5	4729.2	4769.2	4776.8	4789.3
30°	8879.7	8463.9	6903.3	5375.4	4576.4	4388.5	4458.6	4576.4	4621.5	4649.0	4644.0
32.5°	9350.7	8689.4	6595.3	4861.9	4243.3	4183.1	4268.2	4388.5	4438.6	4453.6	4433.6
35°	9904.2	8944.9	6189.5	4381.0	3952.7	3987.8	4087.9	4125.5	4170.6	4170.6	4180.6
37.5°	10500.4	9150.2	5693.6	3940.2	3727.2	3855.0	3927.6	3892.6	3872.5	3847.5	3860.0
40°	11106.5	9303.1	5049.8	3504.3	3501.8	3717.2	3737.2	3637.1	3556.9	3531.9	3519.3
42.5°	11635.1	9398.3	4468.7	3166.1	3288.9	3582.0	3597.0	3436.7	3308.9	3233.8	3208.8
45°	12258.8	9508.4	3900.1	2885.6	3091.0	3474.3	3511.8	3296.4	3108.5	2950.7	2910.6
47.5°	13113.0	9759.0	3451.7	2667.7	2948.2	3406.6	3459.2	3181.2	2933.2	2727.8	2695.2
50°	14077.3	10102.1	3103.5	2519.9	2838.0	3346.5	3411.6	3063.4	2770.3	2542.4	2517.4
52.5°	14961.5	10287.4	2803.0	2387.1	2730.3	3236.3	3349.0	2978.3	2610.0	2357.1	2334.5
55°	15445.0	9986.9	2507.4	2256.9	2582.5	3093.5	3261.3	2860.6	2454.8	2259.3	2226.8
57.5°	15510.1	9365.6	2239.3	2116.6	2427.2	2918.2	3098.5	2717.8	2354.5	2191.7	2164.2
60°	15006.6	8438.8	2031.4	2001.4	2269.4	2720.3	2915.7	2592.6	2251.9	2116.6	2089.0
62.5°	13754.1	7431.9	1886.2	1896.2	2109.1	2512.4	2780.4	2472.3	2154.1	2034.0	2008.9
65°	11600.0	6134.4	1745.9	1788.5	1966.3	2349.6	2657.6	2372.1	2056.5	1971.3	1948.8
67.5°	8058.1	4428.6	1630.7	1675.8	1831.0	2184.2	2514.8	2264.4	1946.2	1901.2	1866.1
70°	4461.2	2725.3	1495.4	1548.0	1690.7	1998.9	2354.5	2101.6	1785.9	1765.9	1715.8
72.5°	2344.5	1735.9	1342.6	1400.2	1500.4	1760.9	2109.1	1923.7	1628.2	1543.0	1477.9
74°	1831.0	1422.7	1239.9	1300.0	1367.6	1620.6	1963.8	1796.0	1515.4	1415.2	1365.1
75°	1595.6	1267.5	1152.3	1229.9	1290.0	1525.5	1851.1	1705.8	1452.8	1357.6	1312.5
77.5°	1127.2	949.3	941.8	1034.5	1067.1	1337.6	1668.2	1553.0	1295.0	1194.8	1152.3
80°	791.5	711.4	746.5	804.1	849.2	1182.3	1548.0	1342.6	1062.1	944.4	929.3
82.5°	516.0	465.9	533.5	586.2	601.1	871.7	1249.9	1019.5	774.0	628.7	583.7
85°	238.0	233.0	305.6	298.1	295.6	425.8	741.4	596.2	445.9	333.1	313.1
87.5°	60.1	57.6	75.2	62.7	75.2	65.1	67.6	17.5	2.5	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)