

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: P647540

Luminaire Tested: **GALN-SA7D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42603 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

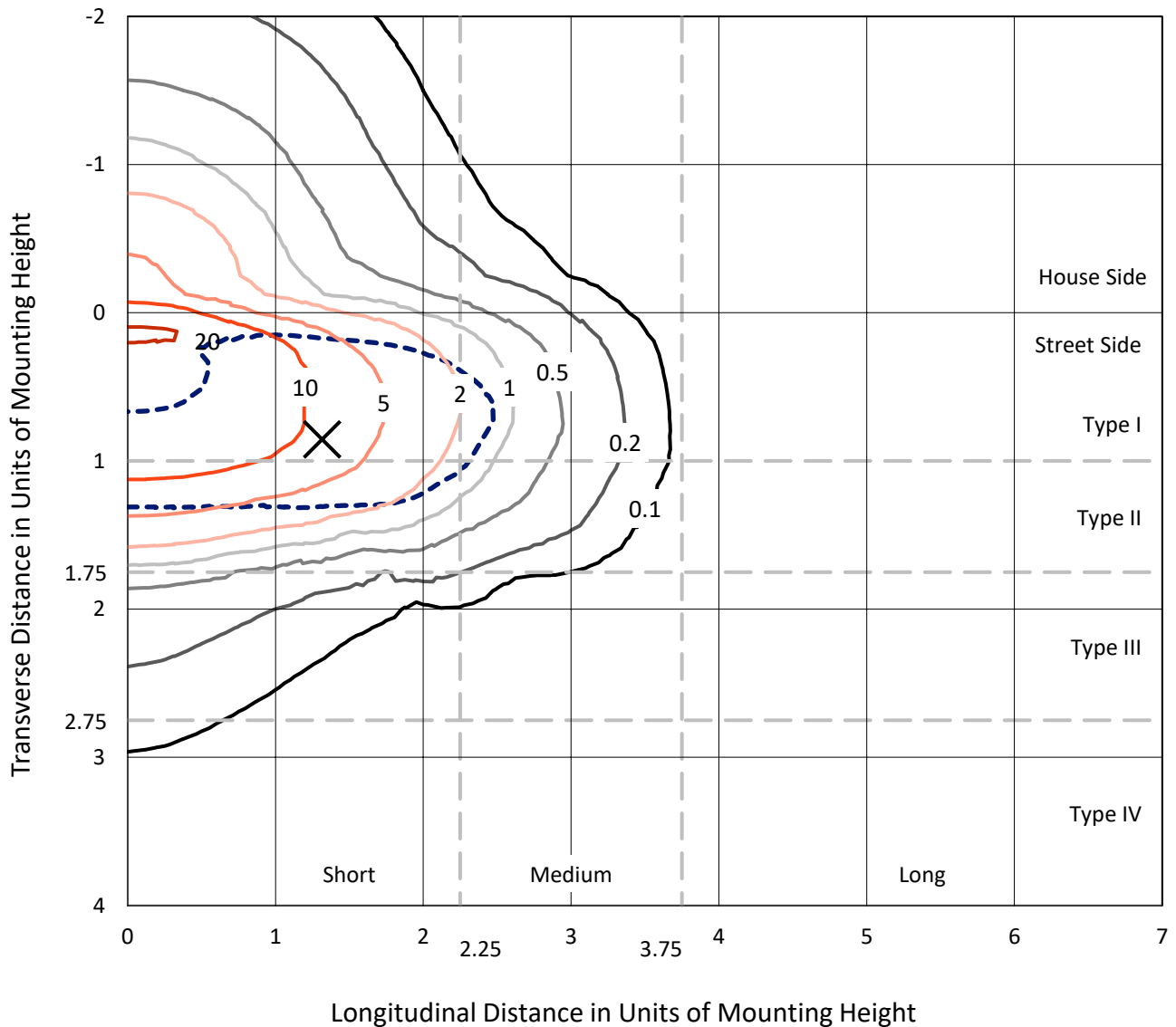
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

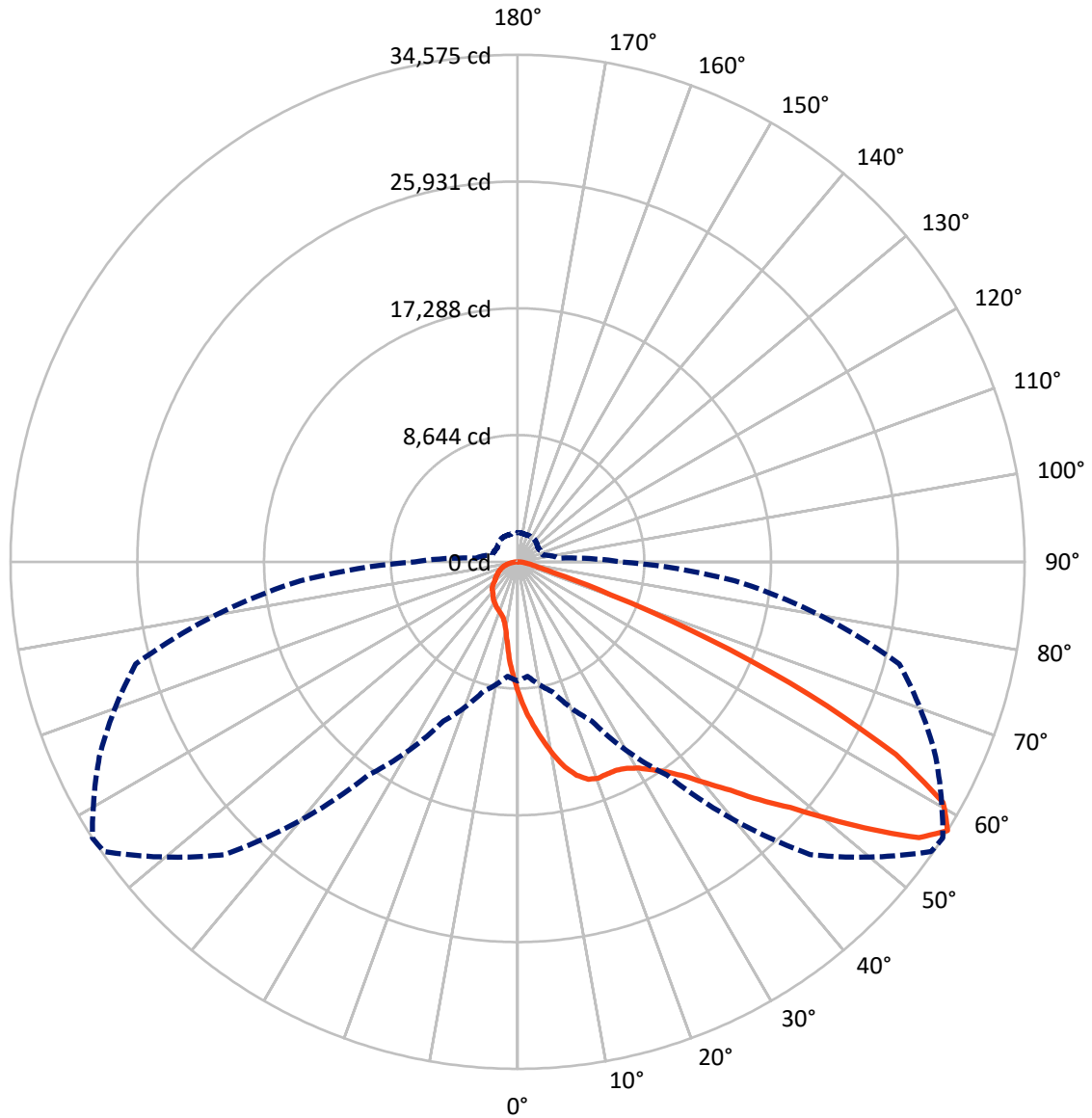
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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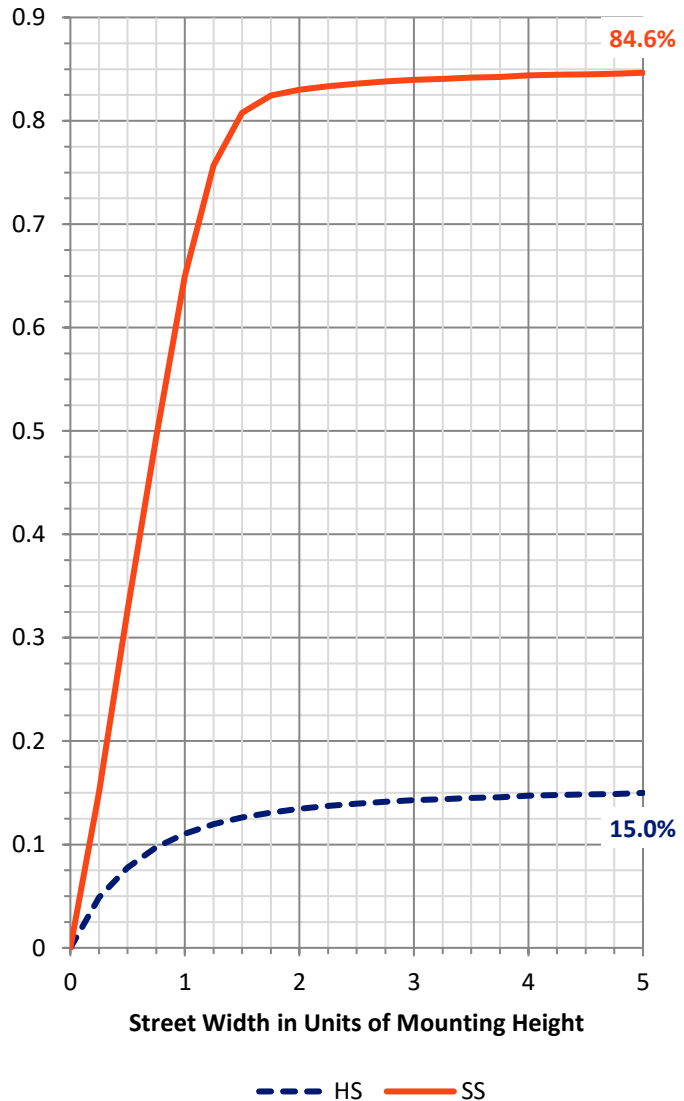
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6478.7	0.0	6478.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	36124.3	0.0	36124.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	42603.0	0.0	42603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.2	2.0
10°-20°	2535.1	6.0
20°-30°	4209.6	9.9
30°-40°	6340.9	14.9
40°-50°	9520.3	22.3
50°-60°	10671.0	25.0
60°-70°	6245.2	14.7
70°-80°	1847.3	4.3
80°-90°	373.4	0.9
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°	42603.0	100.0
0°-180°	42603.0	100.0

Coefficient of Utilization

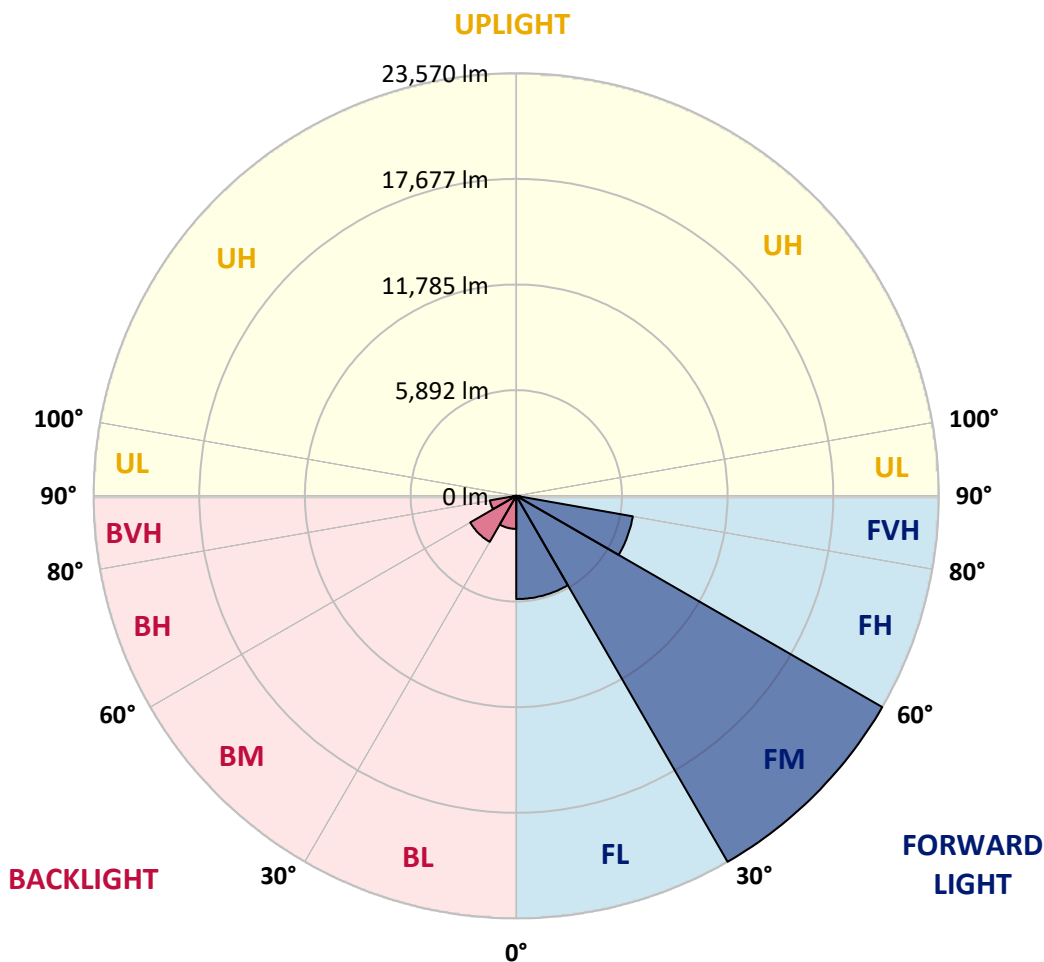


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5758.9	13.5			
FM (30°-60°)	23569.9	55.3			
FH (60°-80°)	6601.8	15.5			G3/7500
FVH (80°-90°)	193.7	0.5			G2/225
BL (0°-30°)	1846.0	4.3	B3/2500		
BM (30°-60°)	2962.3	7.0	B3/5000		
BH (60°-80°)	1490.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	179.7	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4
2.5°	11121.6	11000.3	10904.7	10820.7	10711.1	10414.9	10118.8	10114.1	9878.6	9514.8	9141.6
5°	12933.5	12770.3	12791.3	12530.1	12268.9	11839.8	11212.5	11179.8	10678.5	9997.5	9304.9
7.5°	14113.6	14115.9	14050.6	13901.4	13619.2	13131.8	12420.5	12259.6	11562.3	10529.2	9491.4
10°	14053.0	14115.9	14225.5	14353.8	14440.1	14199.9	13551.5	13355.6	12448.4	11172.9	9699.0
12.5°	13246.0	13344.0	13500.3	13822.1	14342.1	14738.6	14517.0	14358.4	13474.6	11814.1	9927.5
15°	12742.3	12800.6	12886.9	13103.8	13663.5	14612.7	15186.3	15102.3	14442.4	12539.4	10184.1
17.5°	12588.4	12646.7	12674.7	12807.6	13206.4	14178.9	15449.8	15599.1	15300.6	13206.4	10442.9
20°	12742.3	12770.3	12770.3	12849.6	13162.1	13924.6	15438.2	15739.0	16004.8	14006.3	10685.4
22.5°	13145.8	13157.5	13141.1	13169.1	13402.3	13994.6	15328.6	15701.7	16573.9	14684.9	10874.4
25°	13801.1	13819.7	13712.4	13647.1	13817.4	14302.4	15389.2	15732.0	17019.3	15333.3	11000.3
27.5°	14545.0	14568.3	14437.7	14286.1	14365.5	14682.6	15627.0	15934.9	17352.8	15972.2	11079.6
30°	15456.8	15466.1	15247.0	15065.1	15013.7	15249.2	16032.9	16319.7	17767.9	16725.4	11198.5
32.5°	16389.7	16459.6	16177.4	15920.9	15834.6	15906.9	16632.2	16909.7	18262.3	17534.7	11389.8
35°	17658.3	17670.0	17331.8	17019.3	16734.8	16828.1	17399.4	17600.0	18945.5	18469.9	11660.3
37.5°	19241.8	19349.0	18882.6	18299.6	17949.8	17814.5	18327.6	18546.8	19904.0	19617.2	12068.4
40°	21000.1	21039.8	20641.0	20277.2	19638.2	19246.4	19600.9	19838.7	21086.4	20986.1	12541.8
42.5°	22105.5	22191.8	22222.1	22184.8	21704.4	21046.7	21182.0	21293.9	22485.6	22271.1	13026.8
45°	22478.6	22606.9	23040.6	23959.5	24010.8	23362.4	23047.7	23155.0	24010.8	23567.7	13490.9
47.5°	21860.7	22079.8	22879.7	24764.0	26174.9	26223.9	25274.8	25039.2	25400.7	24642.8	13826.8
50°	20263.2	20309.8	21534.1	24262.7	27189.4	28959.4	27977.6	27539.2	26720.7	25438.0	14057.6
52.5°	17791.2	17844.9	18870.9	21932.9	26564.4	30871.7	31139.8	30356.3	28061.5	26056.0	14209.2
55°	13206.4	13516.5	14645.3	17604.7	23602.7	30692.1	33653.8	33208.4	29682.4	26545.7	14447.1
57.5°	8120.2	7835.7	9174.3	11977.4	17751.5	28224.8	34430.4	34575.0	31466.3	26956.2	14845.8
60°	3735.9	3791.9	4344.6	6177.6	10820.7	22079.8	32429.5	33343.7	32452.8	26942.2	14946.1
62.5°	2574.6	2523.3	2383.4	2712.2	4934.6	13964.3	27392.2	28940.8	30475.2	26105.0	14547.4
65°	2301.7	2250.4	1979.9	1889.0	2266.8	6086.7	19913.4	21867.6	25659.5	23992.1	13553.9
67.5°	2150.1	2080.2	1800.4	1623.1	1618.5	2423.0	11741.9	14094.9	19031.8	20284.2	11744.2
70°	1991.6	1935.6	1658.1	1462.2	1378.2	1522.9	5160.8	6756.0	12357.5	14617.3	9148.7
72.5°	1833.0	1767.7	1518.2	1308.3	1198.7	1140.4	1977.5	2572.2	6982.2	8763.9	5608.6
75°	1602.1	1569.4	1357.3	1184.7	1065.7	921.1	1254.7	1431.9	3339.5	4025.1	2814.8
77.5°	1401.6	1366.6	1205.7	1035.4	949.2	748.6	890.8	972.5	1408.5	1632.4	1271.0
80°	1026.1	1061.1	1016.8	914.2	846.5	587.6	599.3	667.0	837.2	925.8	776.6
82.5°	650.7	716.0	783.5	704.3	641.3	464.1	415.1	440.8	571.4	606.4	345.1
85°	272.9	277.5	454.8	429.1	366.1	275.1	249.5	263.6	305.5	319.5	160.9
87.5°	104.9	102.6	160.9	149.2	114.2	79.3	79.3	88.6	121.3	112.0	51.3
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°	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4	8950.4
2.5°	8980.7	8815.2	8486.3	8078.2	7779.7	7443.9	7147.8	6935.5	6856.3	6818.9	6749.0
5°	8973.7	8647.2	7966.3	7252.7	6679.0	6091.3	5594.6	5272.8	5244.8	5030.2	5009.2
7.5°	8976.1	8477.0	7392.6	6343.2	5468.6	4867.0	4456.5	4349.3	4221.0	4188.3	4204.7
10°	8983.0	8260.1	6776.9	5443.0	4596.4	4202.4	4048.4	4006.5	4011.2	4025.1	4027.4
12.5°	8992.4	8050.3	6137.9	4759.7	4106.8	3943.5	3927.1	3964.5	4004.1	4034.5	4041.5
15°	9004.0	7810.0	5515.3	4209.3	3861.9	3847.9	3901.5	3964.5	4020.5	4064.8	4071.8
17.5°	8990.1	7530.2	4993.0	3871.2	3726.6	3794.3	3882.9	3962.1	4013.4	4055.5	4060.1
20°	8957.4	7217.7	4489.2	3633.4	3642.7	3752.3	3847.9	3922.5	3978.5	3999.5	4015.8
22.5°	8831.5	6844.6	4050.8	3449.1	3542.4	3694.0	3808.3	3852.5	3789.6	3745.2	3756.9
25°	8616.9	6359.5	3642.7	3299.9	3451.5	3612.4	3729.0	3621.7	3570.4	3551.7	3561.0
27.5°	8348.7	5827.8	3334.8	3143.6	3334.8	3521.4	3488.7	3470.1	3446.8	3416.5	3423.4
30°	8059.6	5307.7	3073.7	3022.3	3208.9	3316.2	3330.2	3360.5	3334.8	3288.2	3306.8
32.5°	7791.4	4818.0	2875.4	2919.7	3120.3	3104.0	3208.9	3243.9	3125.0	2968.7	2975.7
35°	7562.8	4363.3	2726.2	2819.4	2968.7	2975.7	3080.6	2959.3	2831.1	2756.5	2761.2
37.5°	7390.3	4008.8	2628.2	2733.1	2775.1	2863.7	2807.8	2744.8	2728.5	2677.2	2679.5
40°	7287.7	3698.7	2565.3	2665.6	2658.5	2719.2	2539.6	2602.5	2625.9	2609.6	2611.9
42.5°	7185.0	3479.4	2500.0	2572.2	2569.9	2450.9	2411.3	2465.0	2525.6	2532.6	2527.9
45°	7103.5	3309.2	2432.3	2430.0	2476.6	2290.0	2278.5	2311.0	2397.3	2439.4	2437.0
47.5°	7012.5	3166.9	2329.7	2264.4	2278.5	2189.8	2171.1	2185.1	2290.0	2357.7	2376.3
50°	6898.2	3024.7	2201.5	2112.8	2054.5	2096.5	2101.2	2103.5	2208.5	2285.4	2301.7
52.5°	6807.2	2917.4	2054.5	1989.2	1919.3	2012.5	2047.5	2052.2	2115.2	2178.1	2189.8
55°	6860.9	2856.8	1910.0	1863.3	1800.4	1926.3	1993.9	2003.2	2017.2	2063.8	2070.9
57.5°	7021.8	2870.8	1793.4	1732.7	1686.0	1823.7	1937.9	1944.9	1935.6	1991.6	2000.9
60°	7070.8	2863.7	1707.1	1588.2	1560.1	1714.1	1856.3	1870.3	1868.0	1949.6	1966.0
62.5°	6865.6	2775.1	1620.8	1466.9	1448.2	1602.1	1742.0	1798.0	1809.7	1926.3	1947.2
65°	6382.9	2593.2	1506.5	1338.6	1338.6	1483.2	1632.4	1709.4	1742.0	1898.3	1921.6
67.5°	5746.2	2378.7	1389.9	1229.0	1224.3	1368.9	1515.8	1595.1	1646.4	1858.6	1872.6
70°	4769.0	2089.5	1245.3	1110.1	1110.1	1240.7	1373.5	1469.2	1543.8	1784.0	1784.0
72.5°	3267.2	1737.4	1070.4	974.8	977.1	1098.4	1233.6	1341.0	1429.5	1634.7	1639.4
75°	2066.2	1357.3	879.2	830.2	839.5	953.8	1093.7	1205.7	1382.9	1616.1	1623.1
77.5°	1098.4	953.8	699.6	687.9	699.6	804.5	960.8	1114.8	1387.6	1401.6	1378.2
80°	711.3	676.3	552.7	529.4	534.0	648.3	855.9	1058.8	1114.8	1128.7	1077.4
82.5°	387.1	429.1	391.8	368.5	368.5	506.1	729.9	841.9	799.9	664.6	634.3
85°	165.6	200.5	202.9	177.3	170.2	312.5	489.8	459.4	426.7	408.1	403.5
87.5°	46.7	65.3	65.3	48.9	37.3	86.3	98.0	28.0	0.0	2.3	4.7
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)