

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: P647595

Luminaire Tested: **GALN-SA8D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647595
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-SA8D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 49390.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

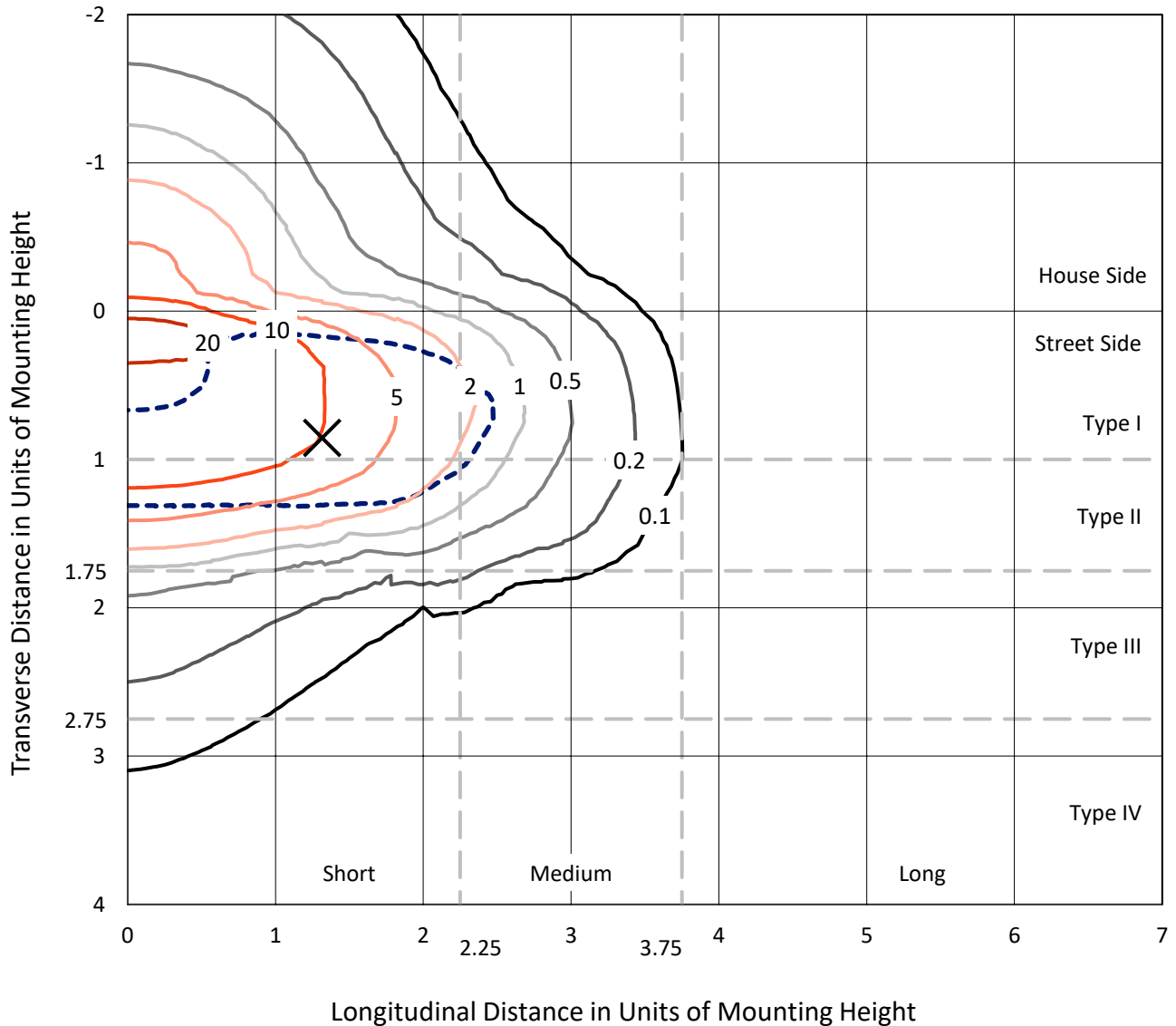
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

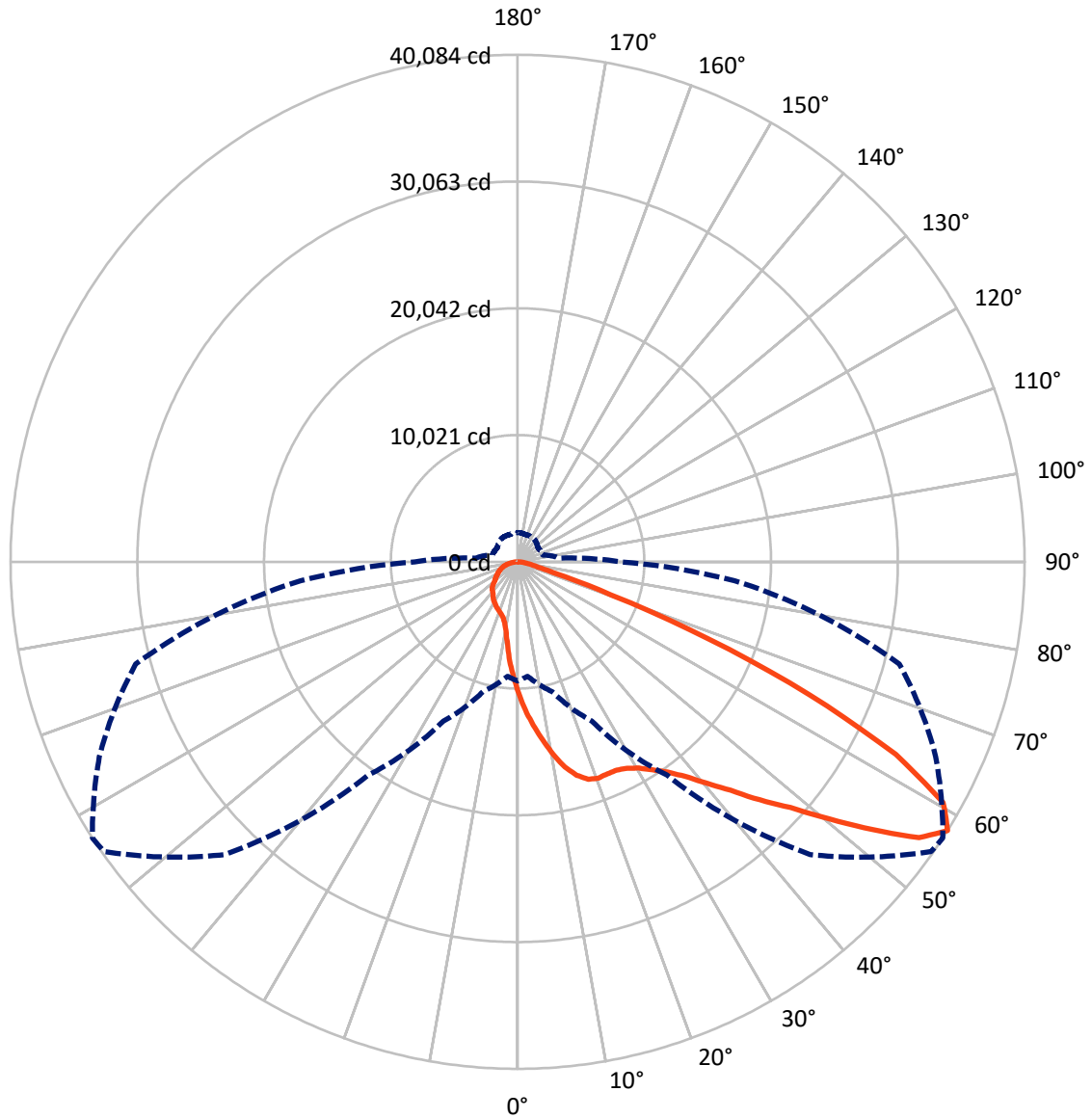
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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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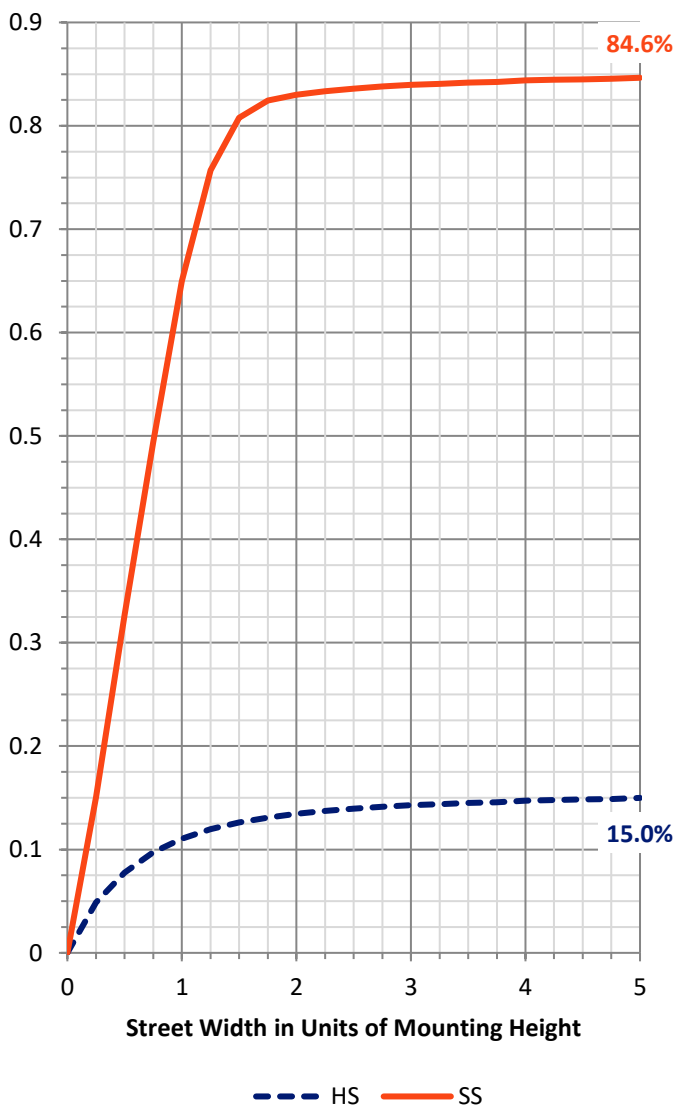
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7511.0	0.0	7511.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	41879.9	0.0	41879.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	49390.8	0.0	49390.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.3	2.0
10°-20°	2939.0	6.0
20°-30°	4880.3	9.9
30°-40°	7351.2	14.9
40°-50°	11037.1	22.3
50°-60°	12371.2	25.0
60°-70°	7240.2	14.7
70°-80°	2141.6	4.3
80°-90°	432.9	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°	49390.8	100.0
0°-180°	49390.8	100.0

Coefficient of Utilization

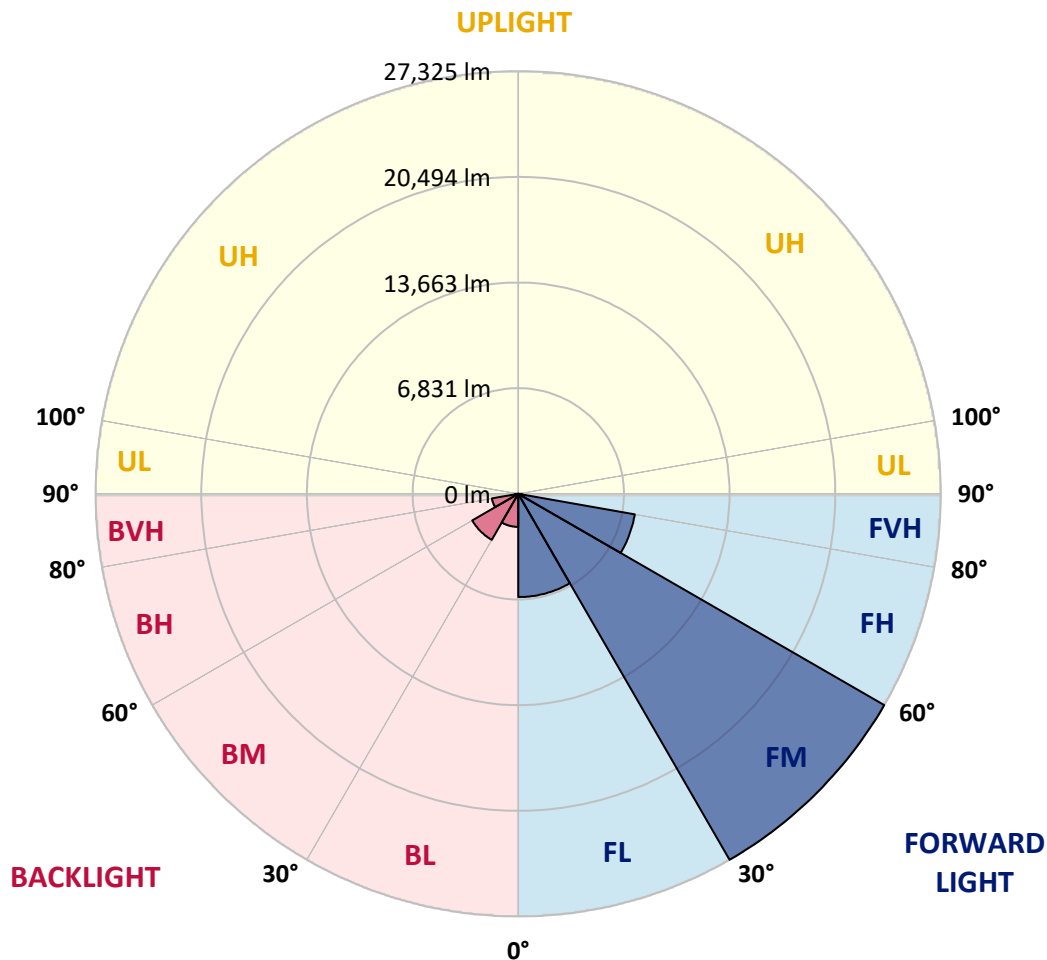


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6676.5	13.5			
FM (30°-60°)	27325.2	55.3			
FH (60°-80°)	7653.6	15.5			G4/12000
FVH (80°-90°)	224.6	0.5			G2/225
BL (0°-30°)	2140.1	4.3	B3/2500		
BM (30°-60°)	3434.3	7.0	B3/5000		
BH (60°-80°)	1728.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	208.3	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5
2.5°	12893.5	12753.0	12642.1	12544.8	12417.7	12074.3	11731.0	11725.6	11452.5	11030.7	10598.1
5°	14994.2	14805.0	14829.3	14526.5	14223.7	13726.2	12999.0	12961.1	12379.9	11590.4	10787.4
7.5°	16362.3	16364.9	16289.2	16116.3	15789.1	15224.0	14399.4	14212.9	13404.5	12206.8	11003.7
10°	16292.0	16364.9	16492.0	16640.7	16740.8	16462.3	15710.7	15483.6	14431.9	12953.0	11244.3
12.5°	15356.5	15470.0	15651.2	16024.3	16627.2	17086.8	16830.0	16646.1	15621.5	13696.5	11509.2
15°	14772.5	14840.1	14940.1	15191.6	15840.5	16940.8	17605.9	17508.6	16743.4	14537.3	11806.7
17.5°	14594.1	14661.7	14694.1	14848.2	15310.5	16437.9	17911.4	18084.5	17738.4	15310.5	12106.7
20°	14772.5	14805.0	14805.0	14896.9	15259.2	16143.3	17897.9	18246.6	18554.9	16237.9	12387.9
22.5°	15240.2	15253.8	15234.8	15267.2	15537.6	16224.4	17770.8	18203.4	19214.6	17024.6	12606.9
25°	16000.0	16021.6	15897.2	15821.5	16018.8	16581.2	17841.1	18238.6	19731.0	17776.2	12753.0
27.5°	16862.4	16889.5	16738.0	16562.3	16654.3	17022.0	18116.9	18473.8	20117.5	18517.0	12844.9
30°	17919.5	17930.3	17676.2	17465.3	17405.9	17678.9	18587.3	18919.9	20598.8	19390.3	12982.8
32.5°	19001.0	19082.1	18755.0	18457.6	18357.5	18441.3	19282.2	19603.9	21171.9	20328.4	13204.4
35°	20471.8	20485.2	20093.2	19731.0	19401.1	19509.2	20171.6	20404.1	21964.1	21412.6	13518.0
37.5°	22307.5	22431.9	21891.1	21215.2	20809.7	20652.9	21247.6	21501.8	23075.3	22742.8	13991.2
40°	24346.0	24391.9	23929.7	23507.9	22767.1	22312.9	22723.8	22999.6	24446.0	24329.8	14540.0
42.5°	25627.5	25727.6	25762.7	25719.4	25162.5	24400.1	24556.9	24686.7	26068.2	25819.5	15102.3
45°	26060.1	26208.8	26711.7	27776.8	27836.4	27084.8	26719.8	26844.1	27836.4	27322.7	15640.3
47.5°	25343.7	25597.8	26525.1	28709.6	30345.3	30402.1	29301.7	29028.6	29447.7	28569.0	16029.7
50°	23491.6	23545.7	24965.1	28128.3	31521.4	33573.4	32435.2	31926.9	30978.0	29491.0	16297.4
52.5°	20625.9	20688.0	21877.6	25427.5	30796.8	35790.4	36101.3	35192.9	32532.6	30207.4	16473.1
55°	15310.5	15670.1	16978.7	20409.5	27363.3	35582.2	39015.8	38499.4	34411.5	30775.2	16748.8
57.5°	9413.9	9084.1	10636.0	13885.7	20579.9	32721.8	39916.1	40083.7	36479.8	31251.0	17211.2
60°	4331.2	4396.1	5036.8	7161.9	12544.8	25597.8	37596.4	38656.2	37623.5	31234.8	17327.4
62.5°	2984.8	2925.3	2763.1	3144.3	5720.8	16189.2	31756.6	33551.8	35330.8	30264.2	16865.1
65°	2668.5	2609.0	2295.4	2189.9	2627.9	7056.4	23086.1	25351.7	29747.8	27814.7	15713.4
67.5°	2492.8	2411.6	2087.2	1881.7	1876.3	2809.0	13612.7	16340.6	22064.2	23516.0	13615.4
70°	2308.9	2244.0	1922.3	1695.2	1597.9	1765.4	5983.1	7832.3	14326.4	16946.2	10606.3
72.5°	2125.1	2049.3	1760.0	1516.7	1389.7	1322.1	2292.6	2982.1	8094.6	10160.1	6502.2
75°	1857.4	1819.5	1573.5	1373.5	1235.6	1067.9	1454.6	1660.0	3871.5	4666.4	3263.2
77.5°	1624.9	1584.3	1397.7	1200.4	1100.3	867.9	1032.8	1127.4	1632.9	1892.5	1473.4
80°	1189.6	1230.2	1178.8	1059.8	981.4	681.3	694.8	773.2	970.6	1073.3	900.3
82.5°	754.3	830.0	908.4	816.5	743.5	538.0	481.2	511.0	662.4	703.0	400.1
85°	316.3	321.7	527.2	497.4	424.5	319.0	289.3	305.5	354.2	370.4	186.5
87.5°	121.7	118.9	186.5	173.0	132.5	91.9	91.9	102.7	140.6	129.7	59.5
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°	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5	10376.5
2.5°	10411.6	10219.6	9838.5	9365.3	9019.2	8629.9	8286.6	8040.5	7948.6	7905.3	7824.3
5°	10403.5	10025.0	9235.6	8408.2	7743.2	7061.8	6486.0	6112.9	6080.4	5831.7	5807.4
7.5°	10406.2	9827.6	8570.4	7353.8	6340.0	5642.5	5166.6	5042.2	4893.5	4855.7	4874.6
10°	10414.3	9576.2	7856.7	6310.2	5328.8	4871.9	4693.5	4644.8	4650.2	4666.4	4669.1
12.5°	10425.1	9332.9	7115.9	5518.0	4761.0	4571.8	4552.9	4596.1	4642.1	4677.3	4685.4
15°	10438.6	9054.4	6394.1	4880.0	4477.2	4461.0	4523.2	4596.1	4661.0	4712.4	4720.5
17.5°	10422.4	8730.0	5788.4	4488.0	4320.4	4398.7	4501.5	4593.5	4652.9	4701.6	4707.0
20°	10384.5	8367.7	5204.4	4212.2	4223.0	4350.1	4461.0	4547.5	4612.3	4636.7	4655.6
22.5°	10238.6	7935.1	4696.2	3998.6	4106.8	4282.5	4415.0	4466.4	4393.3	4342.0	4355.5
25°	9989.8	7372.7	4223.0	3825.6	4001.4	4187.9	4323.1	4198.7	4139.3	4117.6	4128.4
27.5°	9678.9	6756.4	3866.1	3644.5	3866.1	4082.5	4044.6	4023.0	3996.0	3960.8	3968.9
30°	9343.7	6153.4	3563.4	3503.8	3720.2	3844.5	3860.7	3895.9	3866.1	3812.1	3833.7
32.5°	9032.8	5585.7	3333.5	3384.9	3617.5	3598.5	3720.2	3760.7	3622.9	3441.7	3449.8
35°	8767.8	5058.4	3160.5	3268.6	3441.7	3449.8	3571.5	3430.9	3282.2	3195.7	3201.1
37.5°	8567.7	4647.5	3047.0	3168.6	3217.3	3320.0	3255.2	3182.1	3163.2	3103.7	3106.5
40°	8448.8	4287.9	2974.0	3090.2	3082.1	3152.4	2944.2	3017.2	3044.2	3025.4	3028.0
42.5°	8329.8	4033.8	2898.3	2982.1	2979.4	2841.5	2795.5	2857.7	2928.0	2936.1	2930.7
45°	8235.2	3836.4	2819.9	2817.2	2871.3	2654.9	2641.5	2679.3	2779.3	2828.0	2825.3
47.5°	8129.7	3671.5	2700.9	2625.2	2641.5	2538.7	2517.0	2533.3	2654.9	2733.4	2755.0
50°	7997.2	3506.6	2552.2	2449.5	2381.9	2430.5	2436.0	2438.7	2560.3	2649.5	2668.5
52.5°	7891.9	3382.2	2381.9	2306.2	2225.1	2333.2	2373.7	2379.1	2452.2	2525.2	2538.7
55°	7954.0	3311.9	2214.2	2160.2	2087.2	2233.2	2311.6	2322.4	2338.6	2392.7	2400.8
57.5°	8140.5	3328.1	2079.1	2008.8	1954.7	2114.3	2246.7	2254.8	2244.0	2308.9	2319.7
60°	8197.3	3320.0	1979.0	1841.1	1808.7	1987.2	2152.1	2168.3	2165.6	2260.2	2279.2
62.5°	7959.4	3217.3	1879.0	1700.6	1678.9	1857.4	2019.6	2084.5	2098.0	2233.2	2257.5
65°	7399.7	3006.4	1746.6	1551.9	1551.9	1719.5	1892.5	1981.8	2019.6	2200.7	2227.8
67.5°	6661.7	2757.6	1611.3	1424.8	1419.4	1587.0	1757.4	1849.3	1908.7	2154.8	2171.0
70°	5528.9	2422.4	1443.7	1286.9	1286.9	1438.3	1592.4	1703.3	1789.8	2068.3	2068.3
72.5°	3787.8	2014.2	1241.0	1130.1	1132.8	1273.4	1430.2	1554.6	1657.3	1895.3	1900.7
75°	2395.4	1573.5	1019.2	962.5	973.3	1105.8	1268.0	1397.7	1603.3	1873.6	1881.7
77.5°	1273.4	1105.8	811.1	797.6	811.1	932.7	1113.9	1292.3	1608.7	1624.9	1597.9
80°	824.6	784.0	640.7	613.7	619.1	751.6	992.2	1227.4	1292.3	1308.5	1249.0
82.5°	448.8	497.4	454.2	427.2	427.2	586.7	846.3	976.0	927.3	770.6	735.4
85°	192.0	232.5	235.2	205.5	197.4	362.3	567.8	532.6	494.8	473.2	467.7
87.5°	54.1	75.7	75.7	56.8	43.2	100.1	113.5	32.4	0.0	2.7	5.4
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)