

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: P648530

Luminaire Tested: **GALN-SA7B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648530
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-SA7B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31336.4 lumens
Efficiency: N/A
Efficacy: 109.6 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

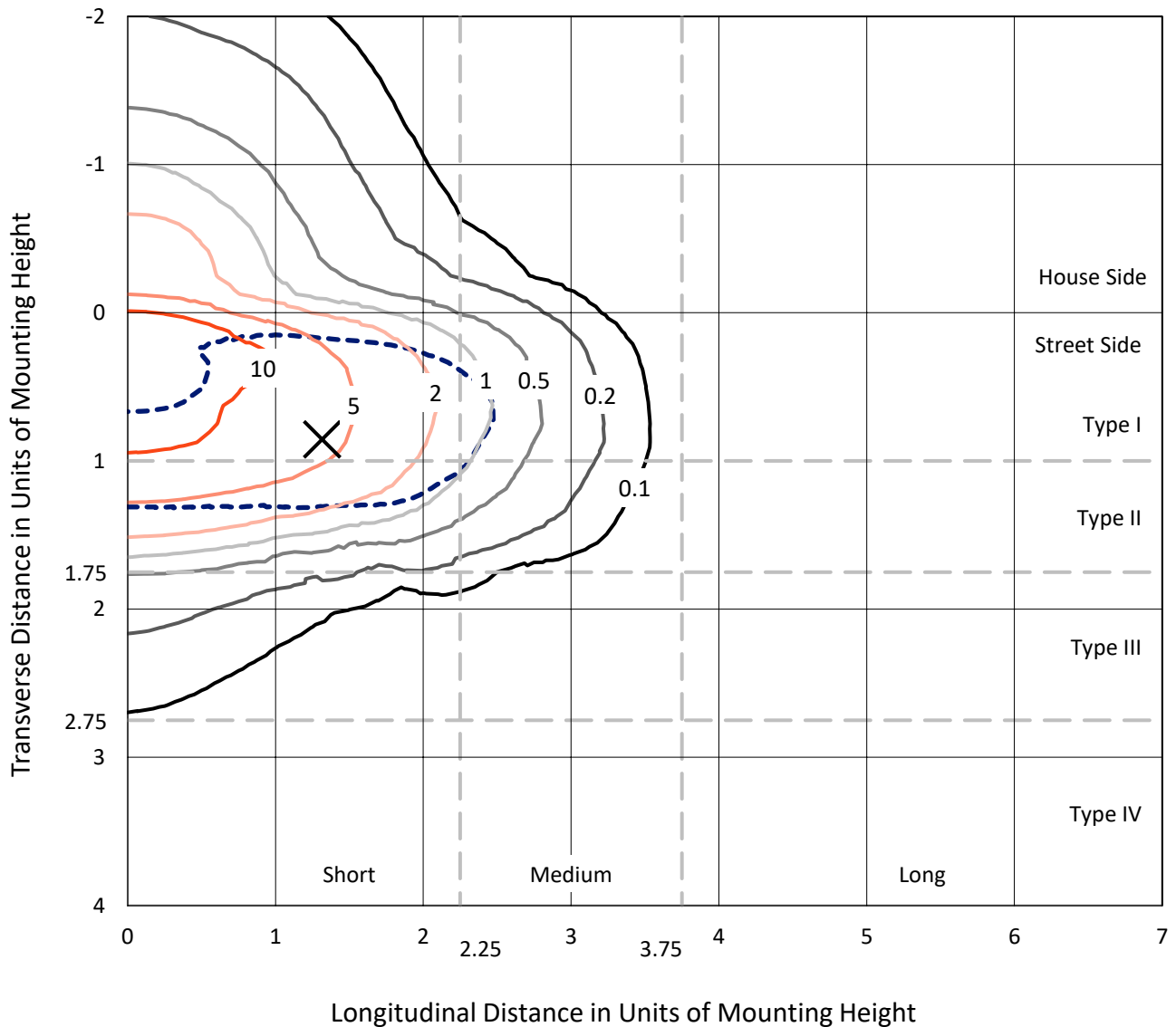
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

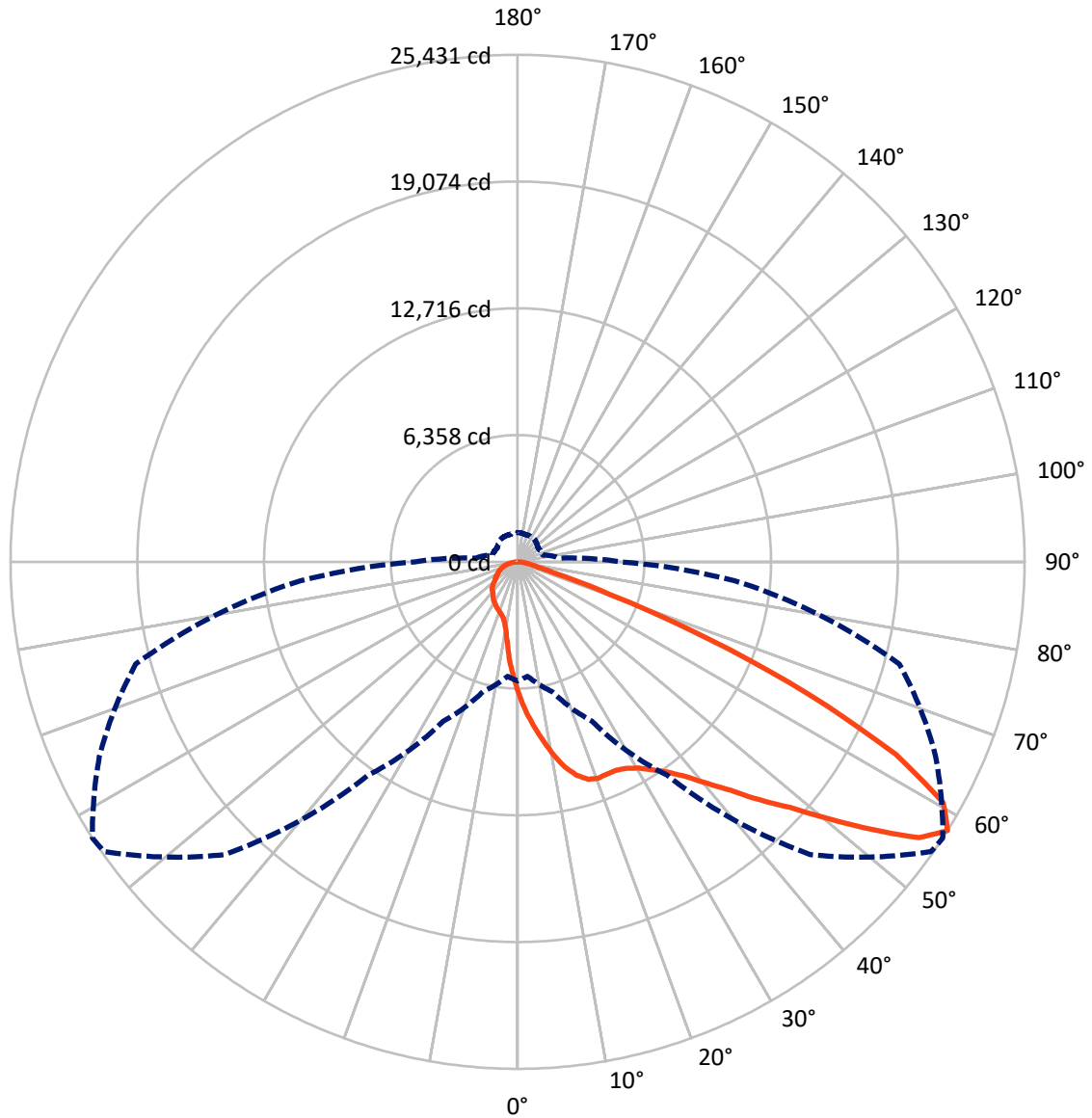
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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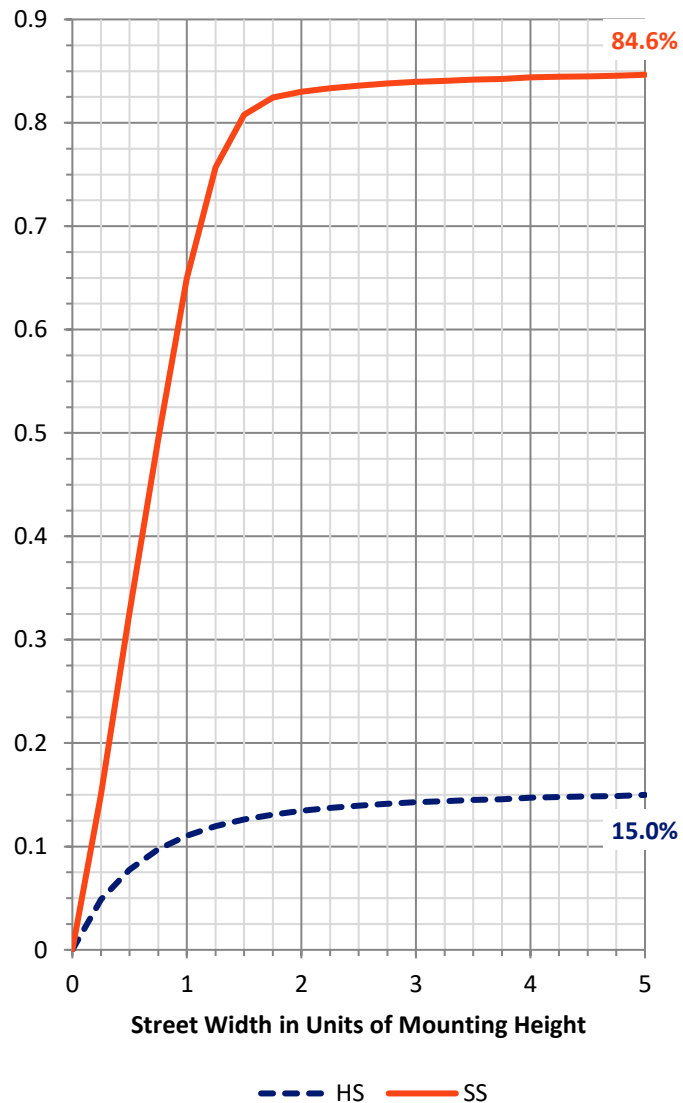
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4765.4	0.0	4765.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26571.1	0.0	26571.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	31336.4	0.0	31336.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.7	2.0
10°-20°	1864.7	6.0
20°-30°	3096.4	9.9
30°-40°	4664.0	14.9
40°-50°	7002.6	22.3
50°-60°	7849.0	25.0
60°-70°	4593.6	14.7
70°-80°	1358.8	4.3
80°-90°	274.6	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°	31336.4	100.0
0°-180°	31336.4	100.0

Coefficient of Utilization



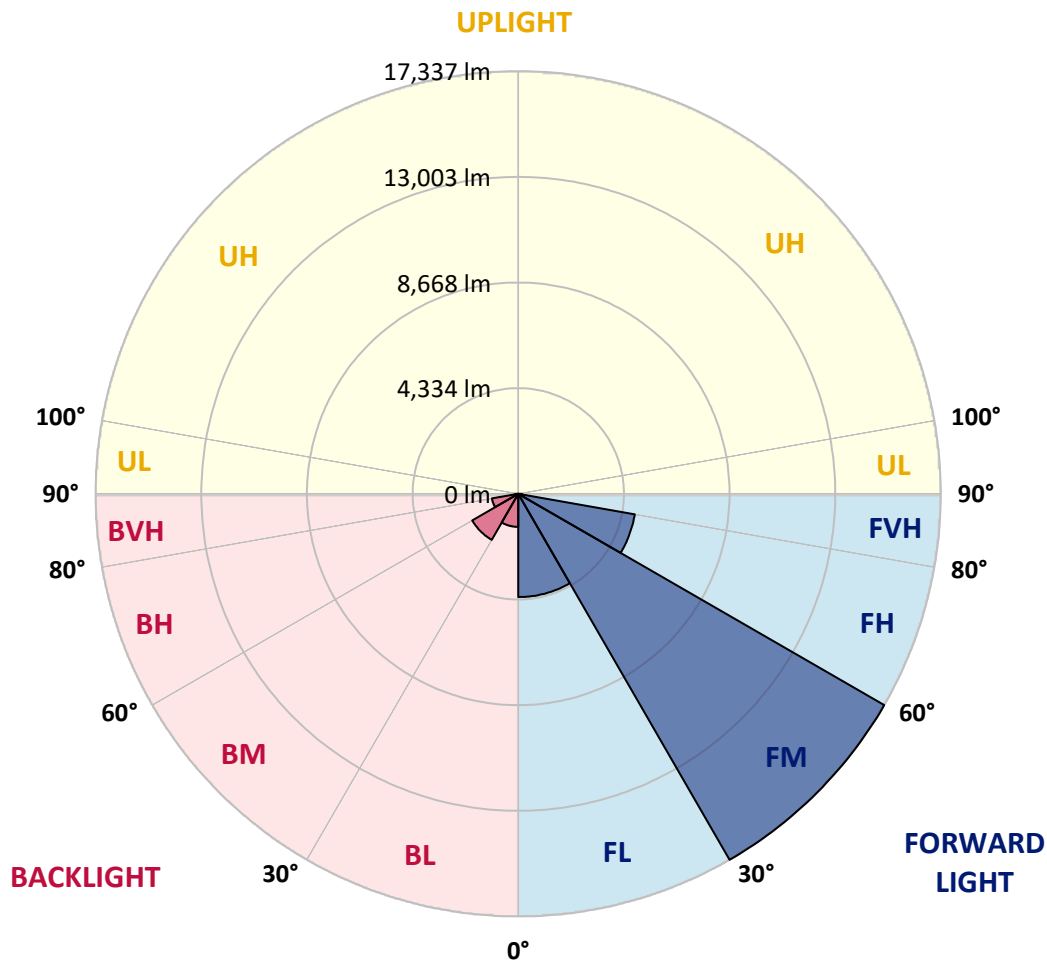
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4236.0	13.5			
FM (30°-60°)	17336.7	55.3			
FH (60°-80°)	4855.9	15.5			G2/5000
FVH (80°-90°)	142.5	0.5			G2/225
BL (0°-30°)	1357.8	4.3	B3/2500		
BM (30°-60°)	2178.9	7.0	B2/2500		
BH (60°-80°)	1096.5	3.5	B3/2500		G3/2500
BVH (80°-90°)	132.1	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°	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5
2.5°	8180.4	8091.2	8020.9	7959.1	7878.5	7660.6	7442.8	7439.4	7266.2	6998.5	6724.1
5°	9513.2	9393.1	9408.6	9216.5	9024.3	8708.7	8247.3	8223.3	7854.5	7353.6	6844.1
7.5°	10381.2	10382.9	10334.8	10225.0	10017.5	9659.0	9135.8	9017.5	8504.6	7744.7	6981.4
10°	10336.5	10382.9	10463.5	10557.8	10621.3	10444.6	9967.7	9823.7	9156.4	8218.1	7134.1
12.5°	9743.0	9815.1	9930.0	10166.8	10549.3	10840.9	10677.9	10561.3	9911.1	8689.8	7302.2
15°	9372.6	9415.4	9478.9	9638.4	10050.1	10748.2	11170.2	11108.5	10623.0	9223.3	7490.8
17.5°	9259.4	9302.2	9322.8	9420.6	9713.9	10429.2	11364.1	11473.8	11254.3	9713.9	7681.2
20°	9372.6	9393.1	9393.1	9451.4	9681.3	10242.2	11355.5	11576.7	11772.3	10302.2	7859.6
22.5°	9669.3	9677.9	9665.9	9686.5	9858.0	10293.7	11274.9	11549.3	12190.8	10801.4	7998.6
25°	10151.3	10165.1	10086.1	10038.1	10163.3	10520.1	11319.4	11571.6	12518.4	11278.3	8091.2
27.5°	10698.5	10715.7	10619.6	10508.1	10566.4	10799.7	11494.4	11720.8	12763.8	11748.3	8149.5
30°	11369.2	11376.1	11214.8	11081.0	11043.3	11216.6	11792.8	12003.9	13069.1	12302.3	8237.0
32.5°	12055.3	12106.7	11899.3	11710.5	11647.0	11700.2	12233.7	12437.9	13432.8	12897.6	8377.6
35°	12988.5	12997.0	12748.3	12518.4	12309.2	12377.8	12798.1	12945.6	13935.3	13585.4	8576.7
37.5°	14153.2	14232.0	13889.0	13460.2	13202.9	13103.4	13480.8	13642.0	14640.3	14429.4	8876.8
40°	15446.6	15475.7	15182.4	14914.7	14444.8	14156.6	14417.3	14592.3	15510.0	15436.2	9225.1
42.5°	16259.6	16323.0	16345.4	16317.9	15964.6	15480.8	15580.3	15662.7	16539.2	16381.4	9581.8
45°	16534.1	16628.4	16947.4	17623.3	17661.0	17184.2	16952.6	17031.5	17661.0	17335.1	9923.2
47.5°	16079.5	16240.8	16829.1	18215.1	19252.9	19288.9	18590.7	18417.5	18683.3	18125.9	10170.2
50°	14904.5	14938.8	15839.3	17846.3	19999.0	21301.0	20578.8	20256.3	19654.2	18710.8	10340.0
52.5°	13086.2	13125.7	13880.4	16132.6	19539.3	22707.5	22904.8	22328.4	20640.5	19165.3	10451.5
55°	9713.9	9942.1	10772.3	12949.0	17360.8	22575.5	24753.9	24426.2	21832.7	19525.6	10626.5
57.5°	5972.8	5763.5	6748.1	8809.9	13057.1	20760.6	25325.1	25431.4	23144.9	19827.4	10919.8
60°	2747.9	2789.1	3195.7	4543.9	7959.1	16240.8	23853.3	24525.8	23870.5	19817.2	10993.6
62.5°	1893.7	1856.0	1753.1	1994.9	3629.6	10271.4	20148.2	21287.2	22415.9	19201.4	10700.2
65°	1693.0	1655.3	1456.3	1389.4	1667.3	4477.0	14647.2	16084.6	18873.7	17647.3	9969.5
67.5°	1581.5	1530.1	1324.2	1193.8	1190.5	1782.3	8636.6	10367.5	13998.8	14919.9	8638.4
70°	1464.9	1423.7	1219.6	1075.5	1013.8	1120.1	3796.0	4969.3	9089.5	10751.7	6729.3
72.5°	1348.2	1300.2	1116.7	962.3	881.7	838.8	1454.6	1892.0	5135.7	6446.2	4125.4
75°	1178.4	1154.4	998.3	871.4	783.9	677.5	922.8	1053.2	2456.3	2960.7	2070.4
77.5°	1030.9	1005.2	886.8	761.6	698.1	550.6	655.3	715.3	1036.1	1200.7	934.8
80°	754.7	780.5	747.9	672.4	622.6	432.3	440.8	490.5	615.8	681.0	571.2
82.5°	478.6	526.6	576.4	518.0	471.7	341.4	305.3	324.2	420.2	446.0	253.8
85°	200.7	204.1	334.5	315.6	269.3	202.4	183.5	193.9	224.7	235.0	118.4
87.5°	77.2	75.5	118.4	109.8	84.0	58.3	58.3	65.1	89.2	82.4	37.7
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°	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5	6583.5
2.5°	6605.7	6483.9	6242.1	5941.9	5722.3	5475.4	5257.5	5101.4	5043.1	5015.6	4964.1
5°	6600.6	6360.5	5859.6	5334.7	4912.7	4480.4	4115.1	3878.4	3857.8	3700.0	3684.6
7.5°	6602.3	6235.2	5437.6	4665.7	4022.4	3579.9	3278.0	3199.1	3104.8	3080.7	3092.8
10°	6607.4	6075.7	4984.7	4003.6	3380.9	3091.0	2977.8	2946.9	2950.3	2960.7	2962.4
12.5°	6614.3	5921.3	4514.8	3500.9	3020.7	2900.6	2888.6	2916.0	2945.3	2967.5	2972.7
15°	6622.8	5744.6	4056.7	3096.1	2840.6	2830.3	2869.8	2916.0	2957.2	2989.8	2995.0
17.5°	6612.6	5538.8	3672.5	2847.5	2741.1	2790.8	2856.0	2914.3	2952.1	2982.9	2986.4
20°	6588.6	5309.0	3302.0	2672.5	2679.3	2760.0	2830.3	2885.2	2926.4	2941.8	2953.8
22.5°	6495.9	5034.5	2979.5	2537.0	2605.6	2717.1	2801.1	2833.8	2787.4	2754.8	2763.4
25°	6338.2	4677.7	2679.3	2427.2	2538.7	2657.0	2742.8	2663.9	2626.2	2612.5	2619.3
27.5°	6140.9	4286.6	2452.9	2312.3	2452.9	2590.2	2566.1	2552.4	2535.3	2513.0	2518.1
30°	5928.2	3904.1	2260.8	2223.1	2360.3	2439.2	2449.5	2471.8	2452.9	2418.6	2432.3
32.5°	5730.9	3543.9	2115.0	2147.6	2295.1	2283.1	2360.3	2386.0	2298.6	2183.6	2188.7
35°	5562.8	3209.4	2005.2	2073.9	2183.6	2188.7	2265.9	2176.7	2082.4	2027.5	2030.9
37.5°	5435.9	2948.6	1933.1	2010.4	2041.2	2106.4	2065.2	2019.0	2006.9	1969.2	1970.9
40°	5360.4	2720.5	1886.9	1960.6	1955.5	2000.1	1868.0	1914.3	1931.4	1919.4	1921.2
42.5°	5284.9	2559.2	1838.8	1892.0	1890.3	1802.8	1773.7	1813.1	1857.7	1862.8	1859.4
45°	5224.9	2434.0	1789.1	1787.4	1821.6	1684.5	1675.9	1699.9	1763.4	1794.2	1792.5
47.5°	5158.0	2329.4	1713.6	1665.6	1675.9	1610.7	1597.0	1607.3	1684.5	1734.2	1747.9
50°	5073.9	2224.8	1619.2	1554.1	1511.2	1542.1	1545.5	1547.2	1624.4	1681.0	1693.0
52.5°	5007.1	2145.9	1511.2	1463.2	1411.7	1480.3	1506.0	1509.5	1555.8	1602.1	1610.7
55°	5046.5	2101.3	1404.9	1370.6	1324.2	1416.8	1466.6	1473.4	1483.8	1518.1	1523.2
57.5°	5164.8	2111.6	1319.1	1274.5	1240.2	1341.4	1425.5	1430.6	1423.7	1464.9	1471.7
60°	5200.8	2106.4	1255.6	1168.2	1147.6	1260.8	1365.4	1375.7	1374.0	1434.0	1446.0
62.5°	5050.0	2041.2	1192.1	1079.0	1065.2	1178.4	1281.4	1322.5	1331.1	1416.8	1432.3
65°	4694.9	1907.5	1108.1	984.6	984.6	1091.0	1200.7	1257.3	1281.4	1396.2	1413.4
67.5°	4226.6	1749.6	1022.4	904.0	900.5	1006.9	1115.0	1173.2	1211.0	1367.1	1377.4
70°	3507.8	1537.0	916.0	816.5	816.5	912.6	1010.3	1080.6	1135.6	1312.2	1312.2
72.5°	2403.2	1277.9	787.3	717.0	718.7	807.9	907.4	986.3	1051.5	1202.5	1205.9
75°	1519.8	998.3	646.7	610.7	617.6	701.6	804.5	886.8	1017.2	1188.8	1193.8
77.5°	807.9	701.6	514.6	506.1	514.6	591.8	706.7	820.0	1020.6	1030.9	1013.8
80°	523.2	497.4	406.5	389.4	392.8	476.8	629.5	778.8	820.0	830.2	792.5
82.5°	284.8	315.6	288.1	271.0	271.0	372.2	536.9	619.2	588.3	488.9	466.6
85°	121.8	147.5	149.2	130.4	125.2	229.9	360.2	337.9	313.9	300.2	296.8
87.5°	34.3	48.0	48.0	36.0	27.5	63.5	72.0	20.6	0.0	1.7	3.4
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)