

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: P458981

Luminaire Tested: **GALN-SA5A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458981
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-SA5A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21543 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

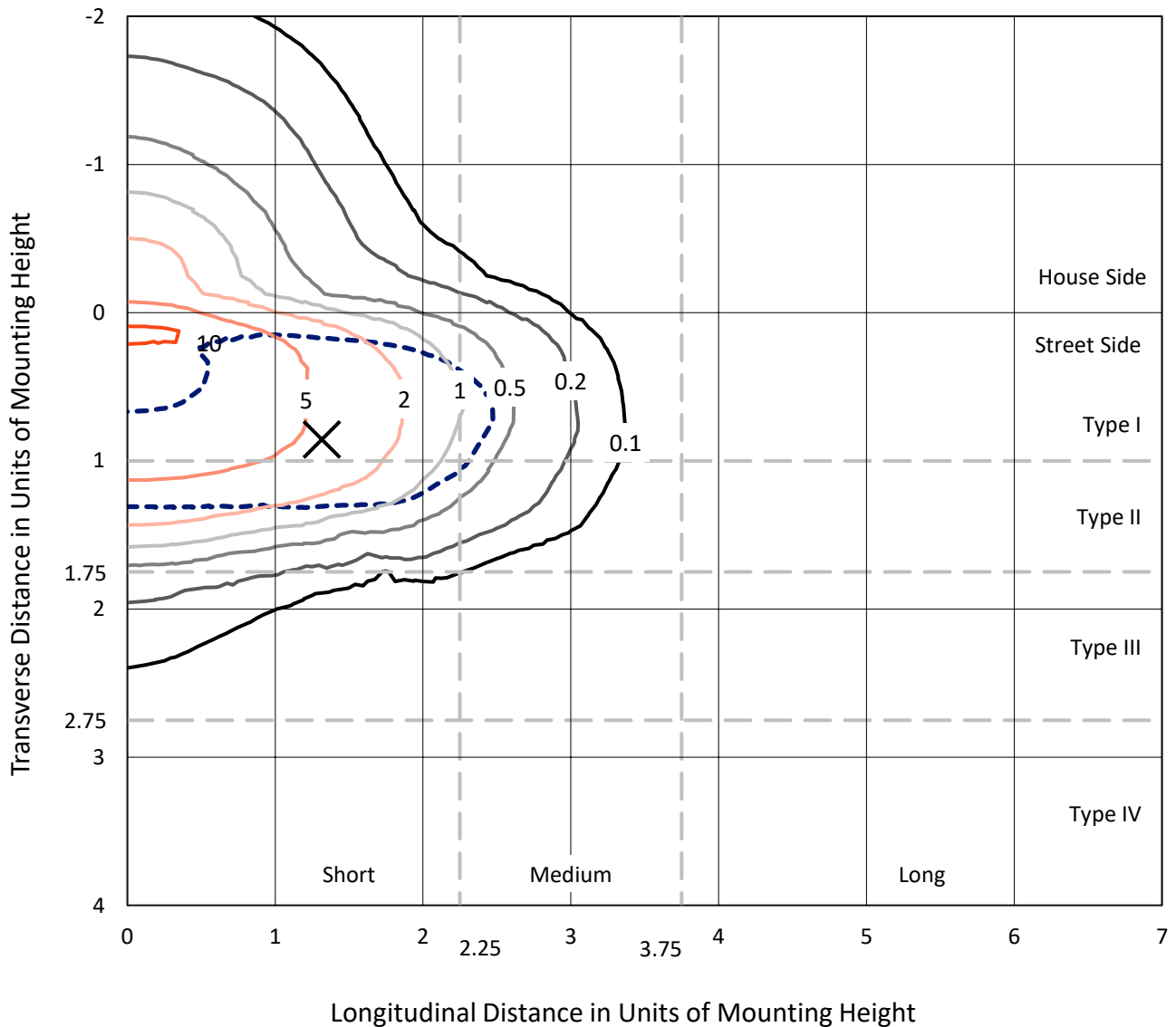
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

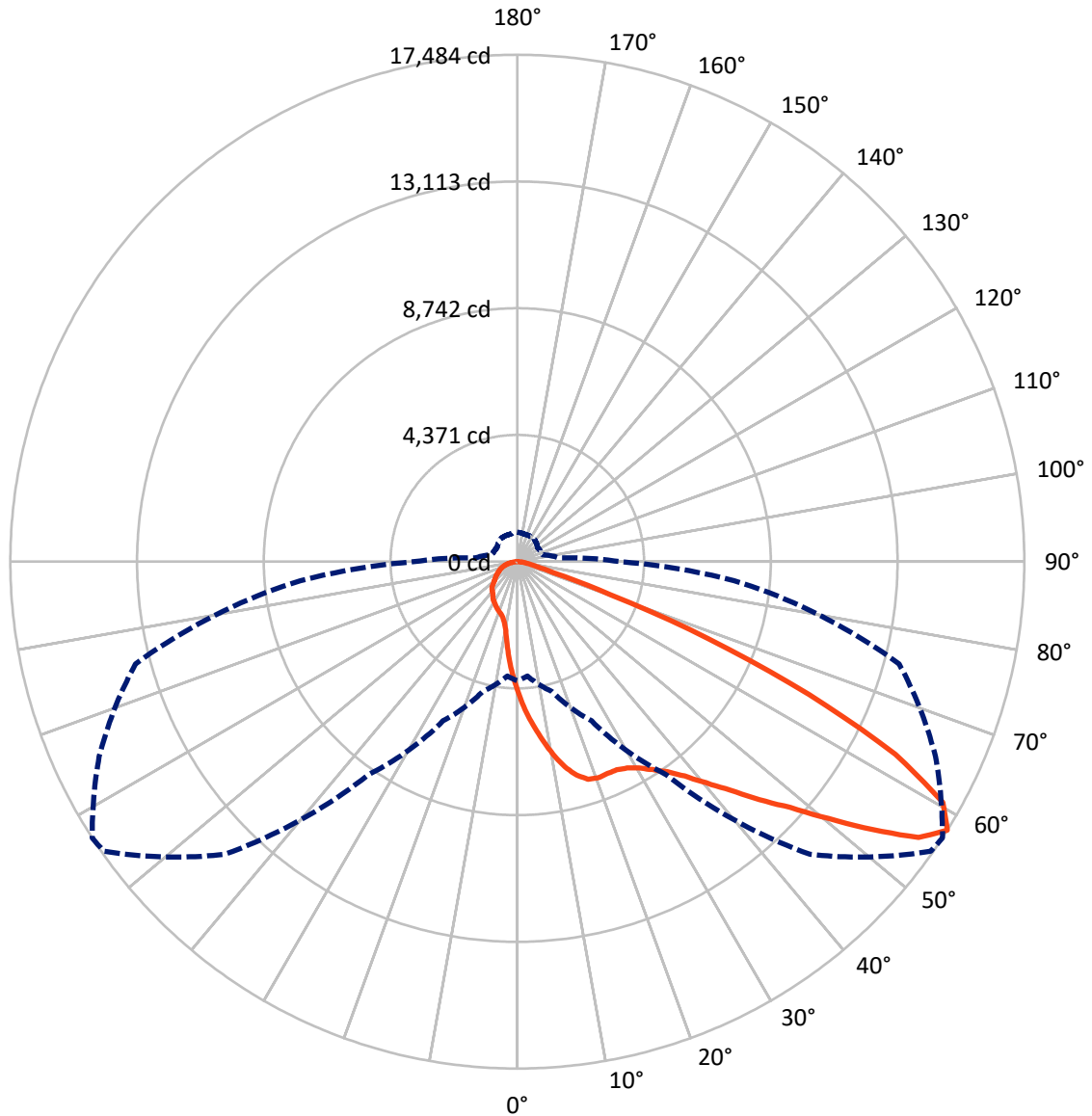
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type 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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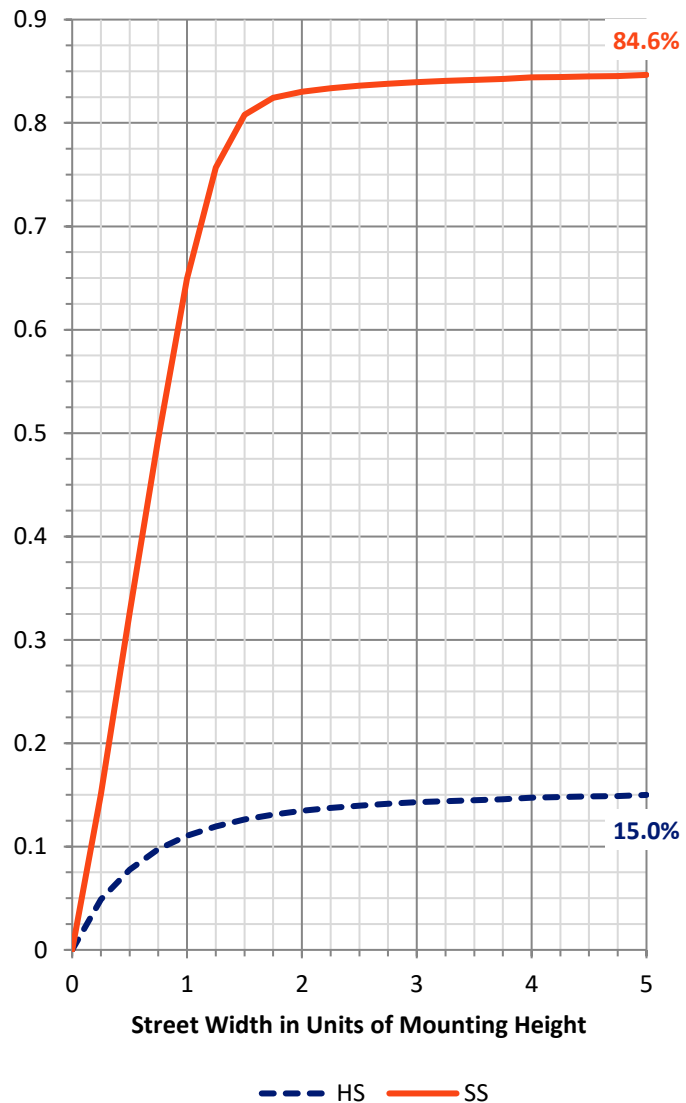
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3276.1	0.0	3276.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	18266.9	0.0	18266.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	21543.0	0.0	21543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	2.0
10°-20°	1281.9	6.0
20°-30°	2128.7	9.9
30°-40°	3206.4	14.9
40°-50°	4814.1	22.3
50°-60°	5396.0	25.0
60°-70°	3158.0	14.7
70°-80°	934.1	4.3
80°-90°	188.8	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°	21543.0	100.0
0°-180°	21543.0	100.0

Coefficient of Utilization



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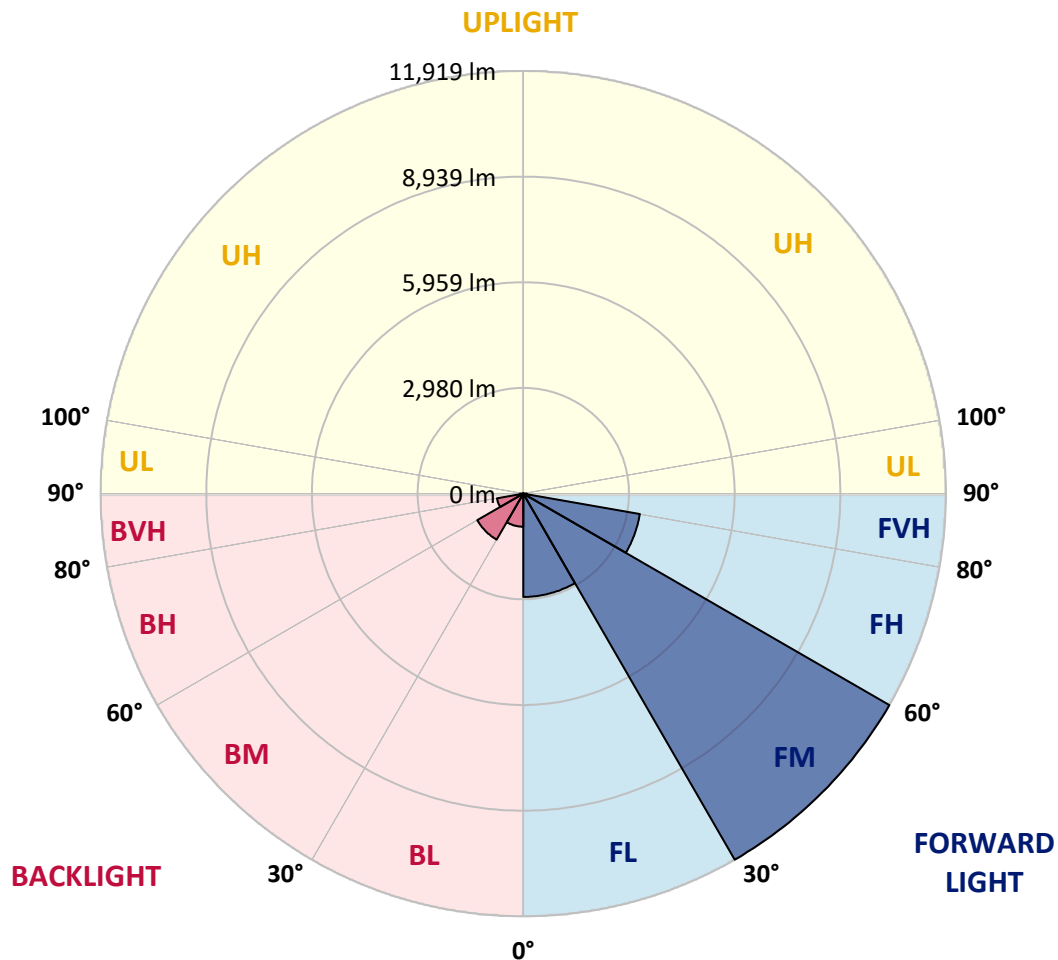
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2912.1	13.5			
FM	(30°-60°)	11918.5	55.3			
FH	(60°-80°)	3338.3	15.5			G2/5000
FVH	(80°-90°)	98.0	0.5			G1/100
BL	(0°-30°)	933.5	4.3	B2/1000		
BM	(30°-60°)	1498.0	7.0	B2/2500		
BH	(60°-80°)	753.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	90.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9
2.5°	5623.8	5562.5	5514.1	5471.7	5416.3	5266.5	5116.7	5114.4	4995.3	4811.3	4622.6
5°	6540.1	6457.5	6468.2	6336.1	6204.0	5987.0	5669.8	5653.3	5399.8	5055.4	4705.2
7.5°	7136.8	7138.0	7104.9	7029.5	6886.8	6640.3	6280.7	6199.3	5846.7	5324.3	4799.5
10°	7106.1	7138.0	7193.4	7258.2	7301.9	7180.4	6852.6	6753.5	6294.8	5649.8	4904.5
12.5°	6698.1	6747.6	6826.6	6989.4	7252.3	7452.8	7340.8	7260.6	6813.7	5974.0	5020.0
15°	6443.4	6472.9	6516.5	6626.2	6909.2	7389.1	7679.2	7636.8	7303.1	6340.8	5149.8
17.5°	6365.6	6395.0	6409.2	6476.4	6678.1	7169.8	7812.5	7888.0	7737.0	6678.1	5280.7
20°	6443.4	6457.5	6457.5	6497.6	6655.7	7041.3	7806.6	7958.7	8093.2	7082.5	5403.3
22.5°	6647.4	6653.3	6645.0	6659.2	6777.1	7076.6	7751.2	7939.8	8380.9	7425.7	5498.8
25°	6978.8	6988.2	6934.0	6900.9	6987.0	7232.3	7781.8	7955.2	8606.1	7753.5	5562.5
27.5°	7354.9	7366.7	7300.7	7224.0	7264.1	7424.5	7902.1	8057.8	8774.8	8076.6	5602.6
30°	7816.0	7820.7	7709.9	7617.9	7592.0	7711.1	8107.3	8252.3	8984.7	8457.5	5662.7
32.5°	8287.7	8323.1	8180.4	8050.7	8007.1	8043.6	8410.4	8550.7	9234.7	8866.7	5759.4
35°	8929.2	8935.1	8764.1	8606.1	8462.3	8509.4	8798.3	8899.8	9580.2	9339.6	5896.2
37.5°	9729.9	9784.2	9548.3	9253.5	9076.6	9008.2	9267.7	9378.5	10064.8	9919.8	6102.6
40°	10619.1	10639.1	10437.5	10253.5	9930.4	9732.3	9911.5	10031.8	10662.7	10612.0	6342.0
42.5°	11178.1	11221.7	11237.0	11218.1	10975.2	10642.7	10711.1	10767.7	11370.3	11261.8	6587.3
45°	11366.7	11431.6	11650.9	12115.6	12141.5	11813.7	11654.5	11708.7	12141.5	11917.4	6821.9
47.5°	11054.2	11165.1	11569.6	12522.4	13235.8	13260.6	12780.6	12661.5	12844.3	12461.1	6991.7
50°	10246.4	10270.0	10889.1	12268.9	13748.8	14643.8	14147.4	13925.7	13511.8	12863.2	7108.5
52.5°	8996.5	9023.6	9542.4	11090.8	13432.8	15610.8	15746.4	15350.2	14189.8	13175.7	7185.1
55°	6678.1	6834.9	7405.7	8902.1	11935.1	15520.0	17017.7	16792.4	15009.4	13423.3	7305.4
57.5°	4106.1	3962.3	4639.1	6056.6	8976.4	14272.4	17410.4	17483.5	15911.5	13630.9	7507.1
60°	1889.1	1917.5	2196.9	3123.8	5471.7	11165.1	16398.6	16860.8	16410.4	13623.8	7557.8
62.5°	1301.9	1275.9	1205.2	1371.5	2495.3	7061.3	13851.4	14634.4	15410.4	13200.5	7356.1
65°	1163.9	1138.0	1001.2	955.2	1146.2	3077.8	10069.6	11057.8	12975.2	12132.1	6853.8
67.5°	1087.3	1051.9	910.4	820.8	818.4	1225.2	5937.5	7127.3	9623.8	10257.1	5938.7
70°	1007.1	978.8	838.4	739.4	696.9	770.0	2609.7	3416.3	6248.8	7391.5	4626.2
72.5°	926.9	893.9	767.7	661.6	606.1	576.7	1000.0	1300.7	3530.7	4431.6	2836.1
75°	810.1	793.6	686.3	599.1	538.9	465.8	634.4	724.1	1688.7	2035.4	1423.3
77.5°	708.7	691.0	609.7	523.6	480.0	378.5	450.5	491.7	712.3	825.5	642.7
80°	518.9	536.6	514.2	462.3	428.1	297.2	303.1	337.3	423.3	468.2	392.7
82.5°	329.0	362.0	396.2	356.1	324.3	234.7	209.9	222.9	288.9	306.6	174.5
85°	138.0	140.3	230.0	217.0	185.1	139.2	126.2	133.3	154.5	161.6	81.4
87.5°	53.1	51.9	81.4	75.5	57.8	40.1	40.1	44.8	61.3	56.6	25.9
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°	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9	4525.9
2.5°	4541.3	4457.5	4291.3	4084.9	3934.0	3764.1	3614.4	3507.1	3467.0	3448.1	3412.7
5°	4537.7	4372.6	4028.3	3667.4	3377.4	3080.2	2829.0	2666.3	2652.1	2543.6	2533.0
7.5°	4538.9	4286.6	3738.2	3207.5	2765.3	2461.1	2253.5	2199.3	2134.4	2117.9	2126.2
10°	4542.4	4176.9	3426.9	2752.4	2324.3	2125.0	2047.2	2025.9	2028.3	2035.4	2036.6
12.5°	4547.2	4070.7	3103.8	2406.8	2076.6	1994.1	1985.8	2004.7	2024.8	2040.1	2043.6
15°	4553.1	3949.3	2788.9	2128.5	1952.8	1945.8	1972.9	2004.7	2033.0	2055.4	2059.0
17.5°	4546.0	3807.8	2524.8	1957.5	1884.4	1918.6	1963.4	2003.5	2029.5	2050.7	2053.1
20°	4529.5	3649.8	2270.0	1837.3	1842.0	1897.4	1945.8	1983.5	2011.8	2022.4	2030.7
22.5°	4465.8	3461.1	2048.3	1744.1	1791.3	1867.9	1925.7	1948.1	1916.3	1893.9	1899.8
25°	4357.3	3215.8	1842.0	1668.6	1745.3	1826.6	1885.6	1831.4	1805.4	1796.0	1800.7
27.5°	4221.7	2946.9	1686.3	1589.6	1686.3	1780.7	1764.1	1754.7	1742.9	1727.6	1731.1
30°	4075.5	2684.0	1554.2	1528.3	1622.6	1676.9	1684.0	1699.3	1686.3	1662.7	1672.2
32.5°	3939.9	2436.3	1454.0	1476.4	1577.8	1569.6	1622.6	1640.3	1580.2	1501.2	1504.7
35°	3824.3	2206.4	1378.5	1425.7	1501.2	1504.7	1557.8	1496.5	1431.6	1393.9	1396.2
37.5°	3737.0	2027.1	1329.0	1382.1	1403.3	1448.1	1419.8	1388.0	1379.7	1353.8	1355.0
40°	3685.1	1870.3	1297.2	1347.9	1344.3	1375.0	1284.2	1316.0	1327.8	1319.6	1320.8
42.5°	3633.3	1759.4	1264.1	1300.7	1299.5	1239.4	1219.3	1246.5	1277.1	1280.7	1278.3
45°	3592.0	1673.3	1230.0	1228.8	1252.4	1158.0	1152.1	1168.6	1212.3	1233.5	1232.3
47.5°	3546.0	1601.4	1178.1	1145.0	1152.1	1107.3	1097.9	1105.0	1158.0	1192.2	1201.6
50°	3488.2	1529.5	1113.2	1068.4	1038.9	1060.1	1062.5	1063.7	1116.7	1155.7	1163.9
52.5°	3442.2	1475.2	1038.9	1005.9	970.5	1017.7	1035.4	1037.7	1069.6	1101.4	1107.3
55°	3469.3	1444.6	965.8	942.2	910.4	974.1	1008.3	1013.0	1020.0	1043.6	1047.2
57.5°	3550.7	1451.6	906.8	876.2	852.6	922.2	980.0	983.5	978.8	1007.1	1011.8
60°	3575.5	1448.1	863.2	803.1	788.9	866.7	938.7	945.8	944.6	985.8	994.1
62.5°	3471.7	1403.3	819.6	741.7	732.3	810.1	880.9	909.2	915.1	974.1	984.7
65°	3227.6	1311.3	761.8	676.9	676.9	750.0	825.5	864.4	880.9	959.9	971.7
67.5°	2905.7	1202.8	702.8	621.5	619.1	692.2	766.5	806.6	832.5	939.9	946.9
70°	2411.6	1056.6	629.7	561.3	561.3	627.4	694.6	742.9	780.7	902.1	902.1
72.5°	1652.1	878.5	541.3	492.9	494.1	555.4	623.8	678.1	722.9	826.6	829.0
75°	1044.8	686.3	444.6	419.8	424.5	482.3	553.1	609.7	699.3	817.2	820.8
77.5°	555.4	482.3	353.8	347.9	353.8	406.8	485.8	563.7	701.7	708.7	696.9
80°	359.7	342.0	279.5	267.7	270.0	327.8	432.8	535.4	563.7	570.8	544.8
82.5°	195.8	217.0	198.1	186.3	186.3	255.9	369.1	425.7	404.5	336.1	320.8
85°	83.7	101.4	102.6	89.6	86.1	158.0	247.6	232.3	215.8	206.4	204.0
87.5°	23.6	33.0	33.0	24.8	18.9	43.6	49.5	14.2	0.0	1.2	2.4
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)