

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: P648032

Luminaire Tested: **GALN-SA7A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18604.9 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

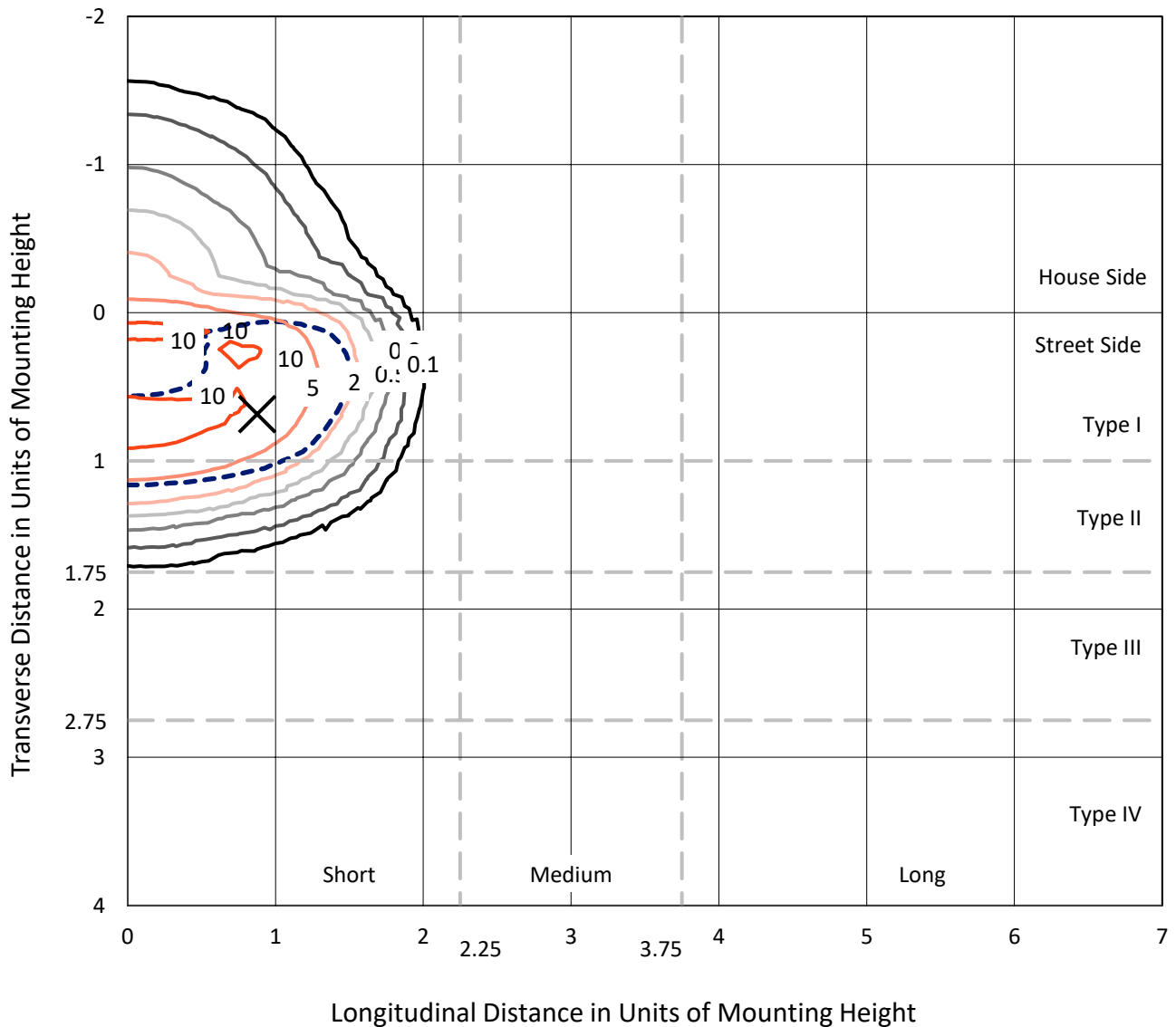
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

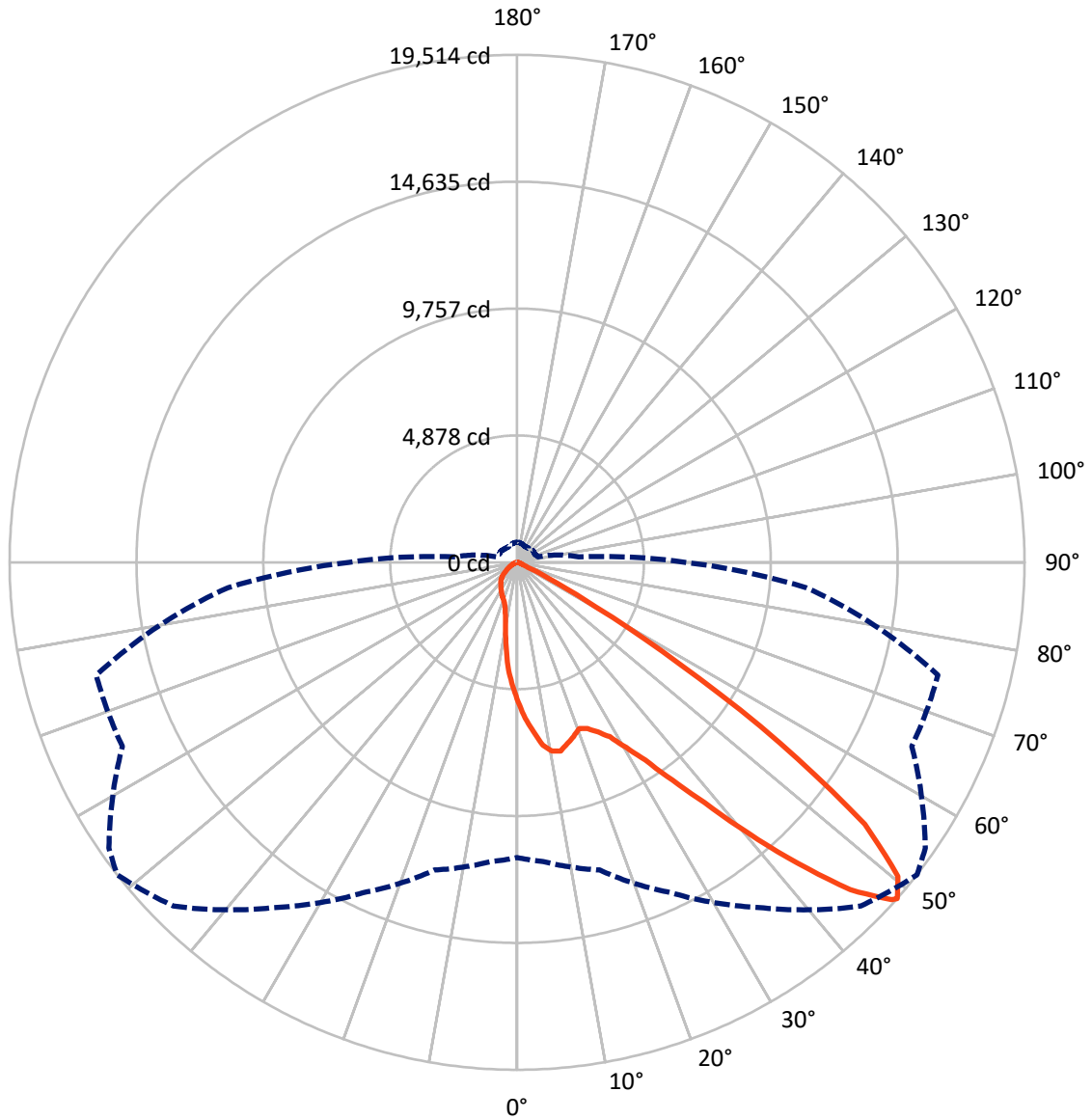
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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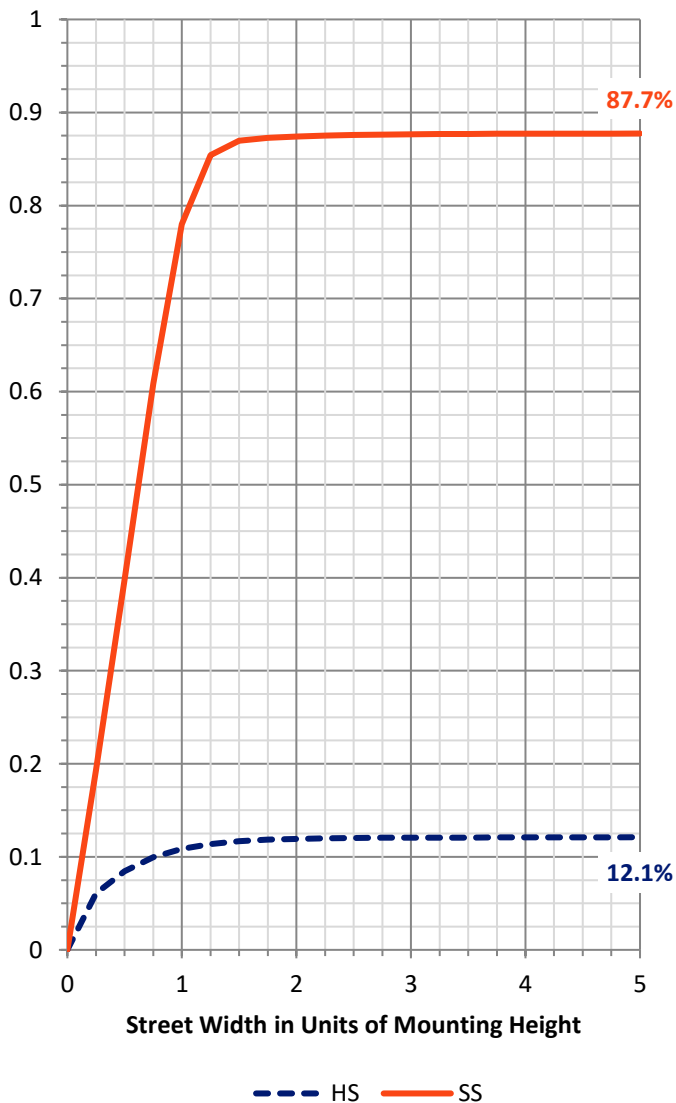
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.3	0.0	2265.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	16339.6	0.0	16339.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	18604.9	0.0	18604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.8	2.6
10°-20°	1285.2	6.9
20°-30°	2194.3	11.8
30°-40°	4040.8	21.7
40°-50°	6275.3	33.7
50°-60°	3776.7	20.3
60°-70°	436.8	2.3
70°-80°	84.6	0.5
80°-90°	19.5	0.1
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°	18604.9	100.0
0°-180°	18604.9	100.0

Coefficient of Utilization

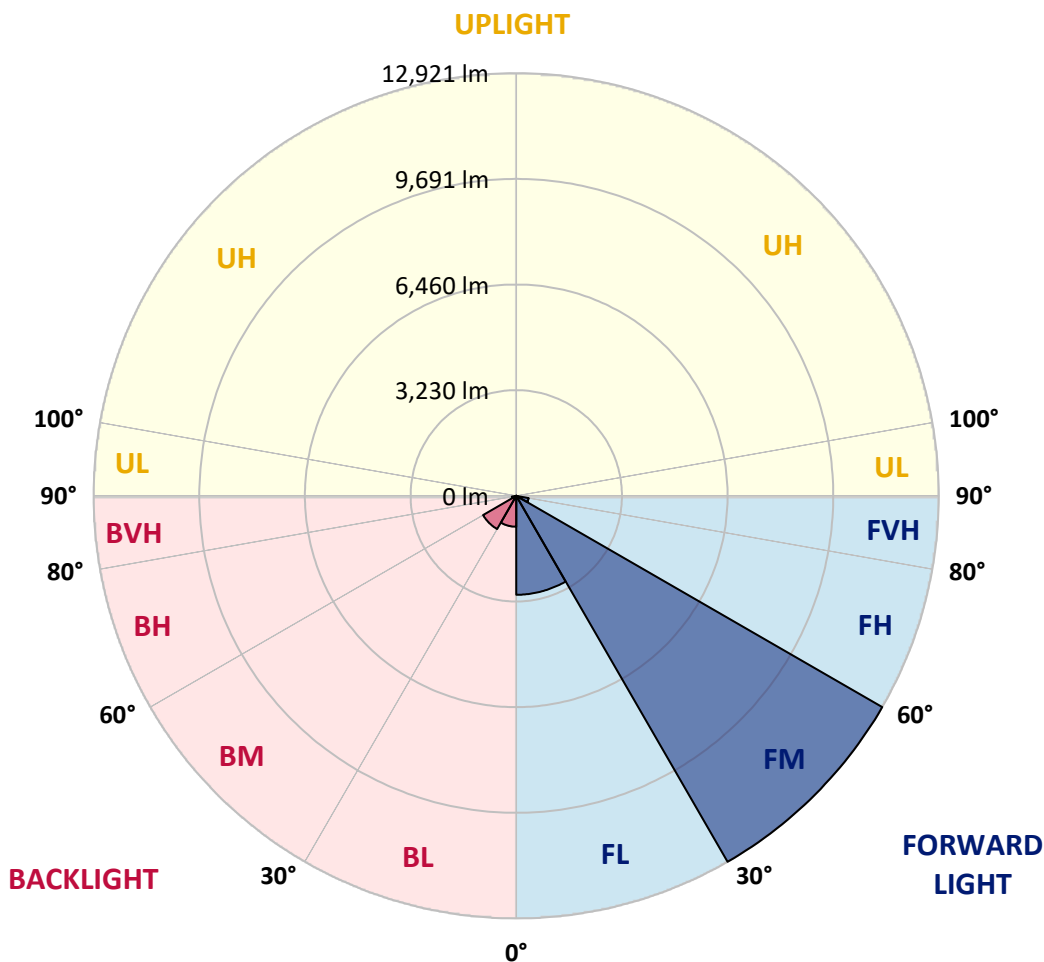


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3024.9	16.3			
FM (30°-60°)	12920.7	69.4			
FH (60°-80°)	384.6	2.1			G0/660
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	946.3	5.1	B2/1000		
BM (30°-60°)	1172.0	6.3	B2/2500		
BH (60°-80°)	136.7	0.7	B1/500		G1/500
BVH (80°-90°)	10.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8
2.5°	6511.9	6362.7	6376.3	6278.6	6221.7	6129.5	6004.7	5980.3	5844.7	5660.2	5473.1
5°	7097.7	7062.4	7108.5	6967.5	6972.9	6821.0	6528.2	6533.6	6221.7	5920.7	5630.4
7.5°	7135.7	7054.3	7100.4	7225.2	7298.4	7271.3	7105.8	6962.1	6666.5	6224.4	5801.3
10°	6389.8	6544.4	6593.3	6799.3	7092.3	7401.5	7382.5	7390.6	7143.8	6566.2	5947.7
12.5°	5942.3	5839.3	6004.7	6129.5	6571.6	7170.9	7444.8	7504.5	7523.5	6897.0	6094.2
15°	5738.9	5738.9	5766.0	5801.3	6121.3	6674.6	7233.3	7406.9	7816.5	7330.9	6324.8
17.5°	5866.4	5861.0	5899.0	5825.7	5945.0	6370.9	7038.1	7236.0	8144.6	7756.8	6506.4
20°	6254.2	6273.2	6248.8	6037.2	6045.4	6365.4	6821.0	7133.0	8367.0	8125.6	6747.8
22.5°	6793.9	6804.8	6666.5	6435.9	6368.1	6525.4	6945.8	7184.5	8546.0	8567.7	6821.0
25°	7417.8	7374.4	7347.2	7021.8	6815.6	6951.2	7227.9	7366.2	8657.2	8947.4	7029.9
27.5°	8282.9	8196.1	8030.7	7740.5	7588.6	7396.1	7594.0	7821.9	8974.5	9479.0	7257.7
30°	9560.4	9484.4	9161.6	8787.4	8388.7	8198.9	8261.2	8386.0	9546.8	10094.7	7558.8
32.5°	11483.2	11323.3	10856.8	10143.5	9601.0	9077.6	9061.3	9194.2	10059.4	10946.3	7916.8
35°	13601.4	13552.6	12866.5	12131.5	11081.9	10273.7	10287.2	10357.7	11041.2	12063.7	8386.0
37.5°	15009.1	15277.6	14840.9	14051.6	13170.2	12014.8	11721.9	11746.3	12389.1	13387.2	9232.2
40°	16096.6	15868.8	15920.3	15736.0	15133.8	14347.3	13699.1	13571.6	13948.6	14851.8	10072.9
42.5°	15622.0	15632.8	15950.2	16386.9	16536.0	16479.0	15817.3	15575.9	15283.0	16050.6	10873.1
45°	14282.2	14561.5	14973.8	16129.2	17143.6	18095.5	17965.3	17563.9	16205.1	16999.8	11334.1
47.5°	12145.0	12134.2	12809.5	14312.1	16565.9	18795.2	19386.5	19104.4	16858.8	16894.0	11239.2
48°	11355.8	11551.1	12248.1	14016.4	16199.7	18692.2	19513.9	19158.7	16747.5	16753.0	11157.8
50°	8394.2	8358.8	9226.7	11396.5	14469.4	17563.9	18976.9	19253.6	16744.8	16039.7	10588.3
52.5°	4434.4	4586.3	5218.1	7165.5	10230.2	14374.4	16739.4	17170.6	16153.6	14873.5	9769.2
55°	1884.9	1703.3	2188.7	3235.6	5755.2	9603.7	12280.7	13240.8	13658.4	13162.1	8546.0
57.5°	672.6	735.0	846.2	1217.7	2419.2	5256.1	7322.9	8068.7	9462.7	9658.0	5823.0
60°	431.2	439.3	474.7	558.7	908.6	2026.0	3474.2	4068.2	4700.2	4852.0	2717.6
62.5°	333.6	336.3	352.6	366.1	431.2	786.5	1304.6	1546.0	1605.6	1380.5	713.3
65°	279.4	282.0	287.5	287.5	306.5	368.9	455.6	501.7	488.2	482.8	404.1
67.5°	214.2	219.7	230.5	230.5	241.4	225.1	252.2	268.5	303.7	368.9	344.4
70°	168.2	170.9	179.0	184.4	184.4	162.7	181.7	198.0	222.4	273.9	271.2
72.5°	130.2	135.6	141.0	141.0	132.9	111.2	130.2	143.8	160.0	189.9	184.4
75°	100.4	100.4	103.0	84.1	65.1	56.9	78.7	94.9	119.3	124.7	103.0
77.5°	27.1	29.8	27.1	24.4	27.1	40.7	51.5	59.7	76.0	76.0	67.8
80°	0.0	2.7	8.1	16.3	27.1	38.0	46.1	51.5	59.7	65.1	62.4
82.5°	0.0	2.7	8.1	16.3	24.4	29.8	40.7	43.4	48.8	56.9	56.9
85°	0.0	2.7	5.4	10.9	16.3	18.9	18.9	16.3	16.3	13.5	10.9
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	8.1	8.1	8.1	8.1	8.1
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°	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8	5372.8
2.5°	5399.9	5315.8	5188.3	4987.6	4795.1	4670.4	4551.0	4418.1	4344.9	4339.5	4298.7
5°	5465.0	5275.1	4971.3	4626.9	4258.1	3940.8	3620.7	3411.9	3224.8	3121.7	3102.7
7.5°	5500.3	5253.5	4762.5	4184.8	3555.6	3037.6	2679.6	2416.5	2313.5	2237.5	2234.8
10°	5573.5	5215.5	4450.7	3599.1	2820.6	2297.2	2050.4	1931.0	1874.1	1852.4	1819.8
12.5°	5627.7	5144.9	4130.6	2996.9	2229.4	1903.9	1795.4	1768.3	1771.1	1781.9	1768.3
15°	5703.7	5082.6	3699.4	2460.0	1871.4	1714.1	1714.1	1719.5	1757.4	1762.9	1760.2
17.5°	5698.2	4960.5	3254.6	2026.0	1654.4	1632.7	1640.9	1692.4	1716.8	1724.9	1705.9
20°	5763.3	4846.6	2796.2	1730.4	1532.3	1564.9	1619.2	1632.7	1662.5	1667.9	1646.3
22.5°	5744.3	4561.8	2370.5	1497.1	1440.2	1502.5	1556.8	1573.0	1564.9	1548.6	1546.0
25°	5709.1	4317.8	1979.9	1342.5	1372.4	1440.2	1491.7	1461.9	1445.6	1448.3	1451.0
27.5°	5646.7	4008.6	1657.1	1234.0	1280.1	1380.5	1377.8	1367.0	1383.2	1369.6	1383.2
30°	5635.9	3699.4	1391.3	1136.4	1212.3	1285.5	1291.0	1310.0	1329.0	1304.6	1329.0
32.5°	5652.2	3360.3	1201.5	1076.7	1171.7	1174.3	1234.0	1253.0	1239.5	1185.2	1190.6
35°	5776.9	3100.0	1063.2	1044.2	1106.5	1109.3	1166.2	1141.8	1082.2	1049.6	1068.6
37.5°	6040.0	2883.0	998.1	1014.4	1019.8	1055.0	1057.8	1008.9	1014.4	1011.6	1022.5
40°	6376.3	2717.6	952.0	987.2	981.8	1006.2	908.6	935.7	960.1	968.3	973.7
42.5°	6606.8	2598.2	922.1	943.8	932.9	889.6	835.3	862.5	881.4	911.3	916.7
45°	6709.8	2503.3	886.9	867.9	867.9	789.3	767.6	773.0	816.4	848.9	843.4
47.5°	6541.7	2411.1	824.5	767.6	786.5	721.5	697.0	697.0	743.1	783.8	775.6
48°	6476.6	2373.1	827.2	745.8	759.4	710.6	686.1	680.7	732.3	770.2	770.2
50°	6153.9	2232.1	756.7	686.1	659.1	653.6	637.4	642.8	675.3	710.6	710.6
52.5°	5524.7	1928.4	640.1	588.5	539.7	572.3	580.4	569.6	585.8	618.3	615.7
55°	4610.7	1480.8	512.6	488.2	450.2	485.5	501.7	488.2	471.9	496.3	496.3
57.5°	2953.6	797.4	409.5	415.0	377.0	412.2	425.8	393.3	363.4	382.4	379.7
60°	1331.6	477.3	336.3	328.2	303.7	344.4	366.1	328.2	287.5	301.1	314.6
62.5°	499.0	339.0	254.9	249.5	244.1	282.0	292.9	263.1	222.4	230.5	233.3
65°	366.1	298.3	203.4	184.4	195.3	222.4	217.0	187.1	160.0	160.0	165.4
67.5°	311.9	260.3	165.4	143.8	143.8	146.4	135.6	119.3	111.2	116.6	122.1
70°	244.1	206.1	130.2	111.2	100.4	89.5	78.7	76.0	67.8	76.0	73.2
72.5°	157.3	138.4	100.4	84.1	76.0	62.4	51.5	48.8	40.7	38.0	38.0
75°	84.1	84.1	78.7	67.8	59.7	48.8	40.7	32.6	21.7	16.3	16.3
77.5°	59.7	65.1	70.5	65.1	54.3	40.7	32.6	21.7	10.9	5.4	5.4
80°	56.9	65.1	70.5	62.4	54.3	40.7	29.8	16.3	8.1	2.7	2.7
82.5°	51.5	59.7	65.1	56.9	48.8	35.2	27.1	16.3	8.1	2.7	2.7
85°	10.9	13.5	16.3	16.3	18.9	24.4	18.9	13.5	5.4	2.7	2.7
87.5°	8.1	8.1	8.1	8.1	8.1	8.1	5.4	5.4	2.7	2.7	2.7
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)