

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: P652021

Luminaire Tested: **GALN-SA7A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17716.5 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

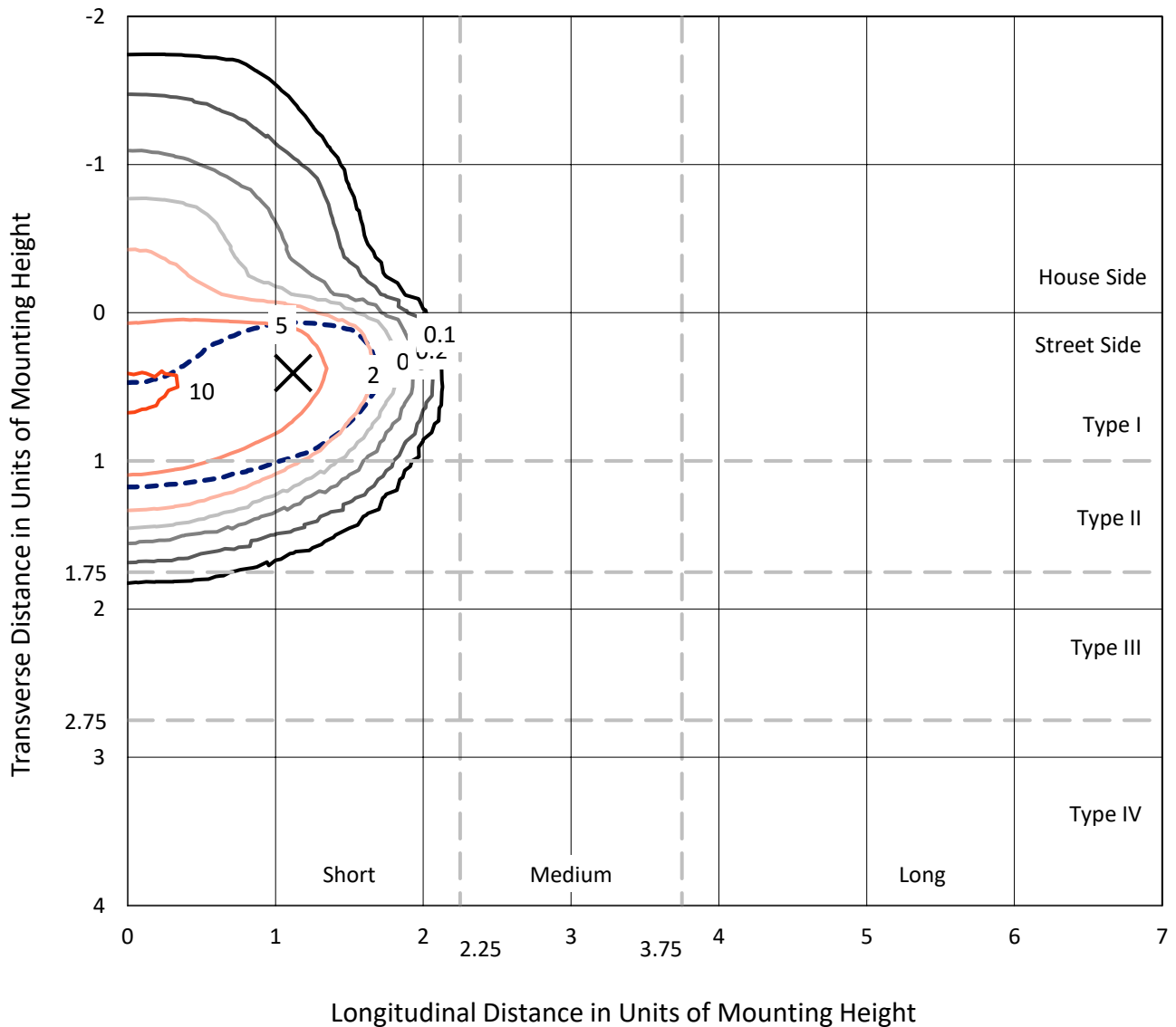
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

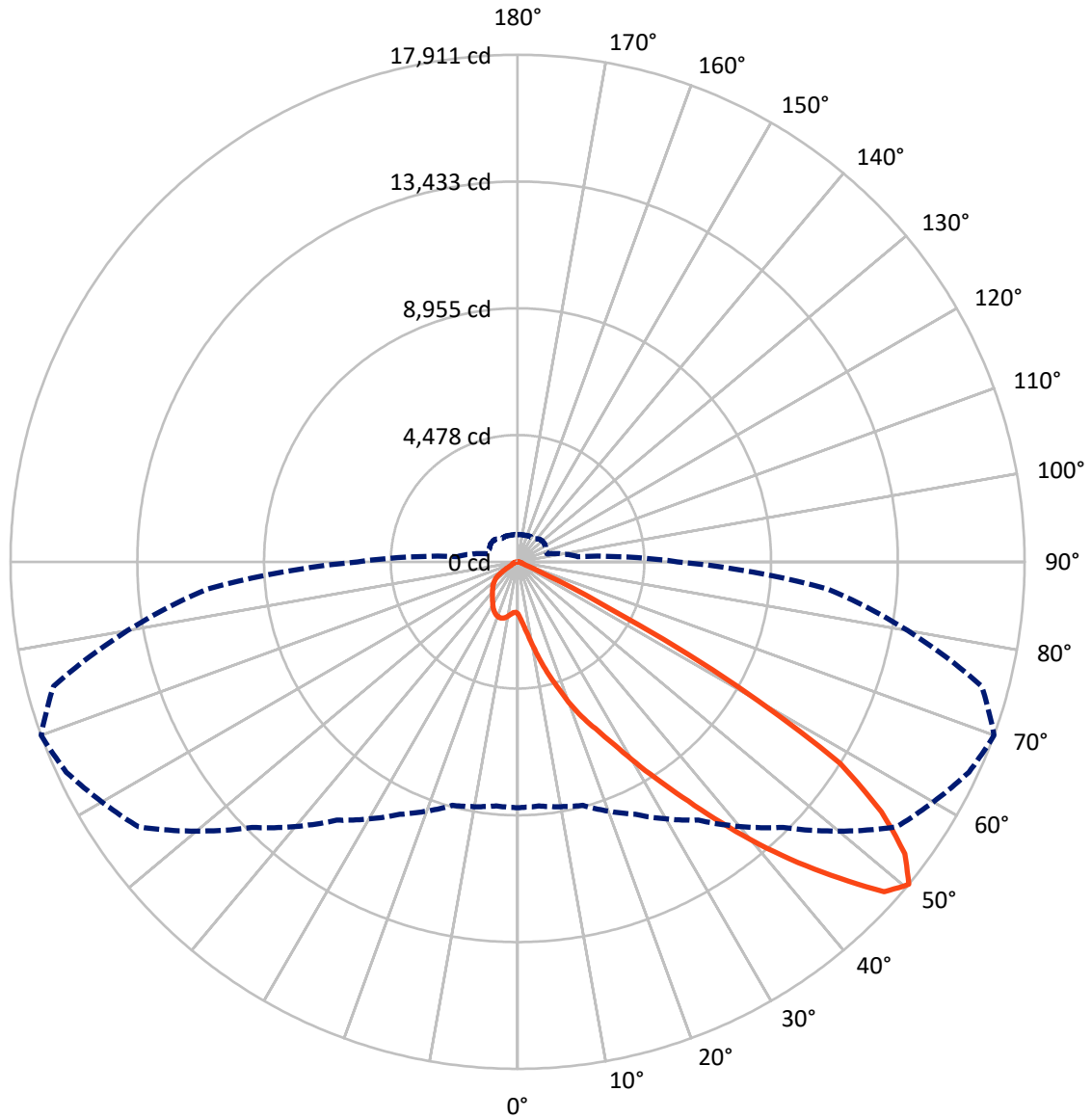
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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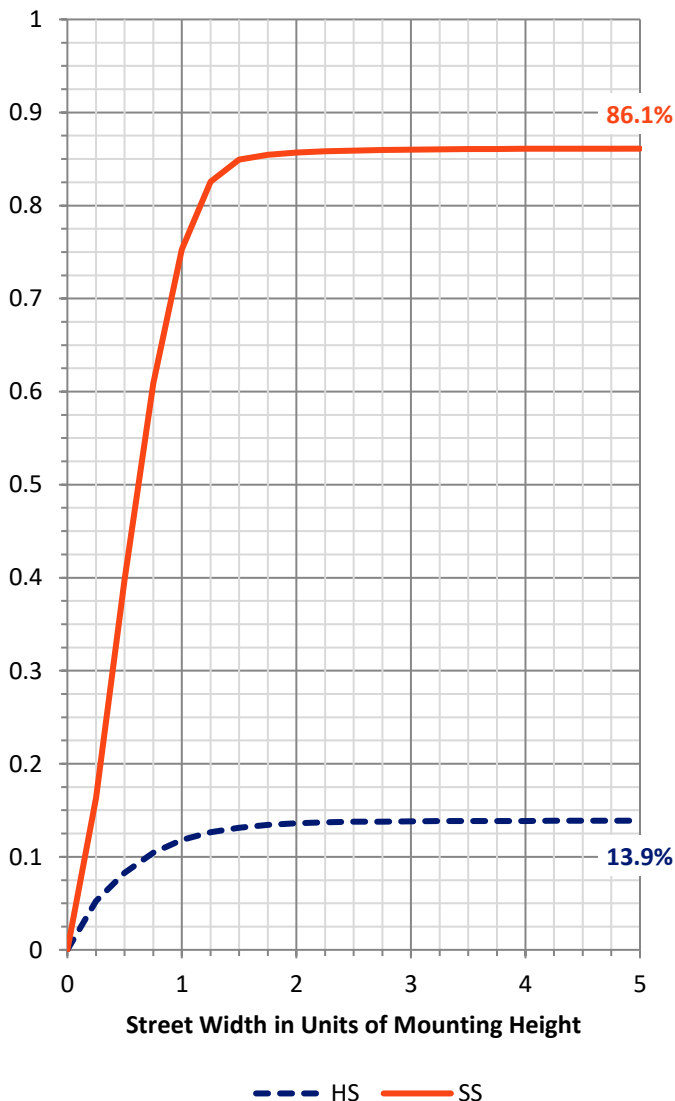
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.2	0.0	2474.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15242.3	0.0	15242.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	17716.5	0.0	17716.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	1.3
10°-20°	1032.2	5.8
20°-30°	2165.4	12.2
30°-40°	3732.5	21.1
40°-50°	5454.9	30.8
50°-60°	4248.5	24.0
60°-70°	719.8	4.1
70°-80°	98.9	0.6
80°-90°	25.6	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°	17716.5	100.0
0°-180°	17716.5	100.0

Coefficient of Utilization



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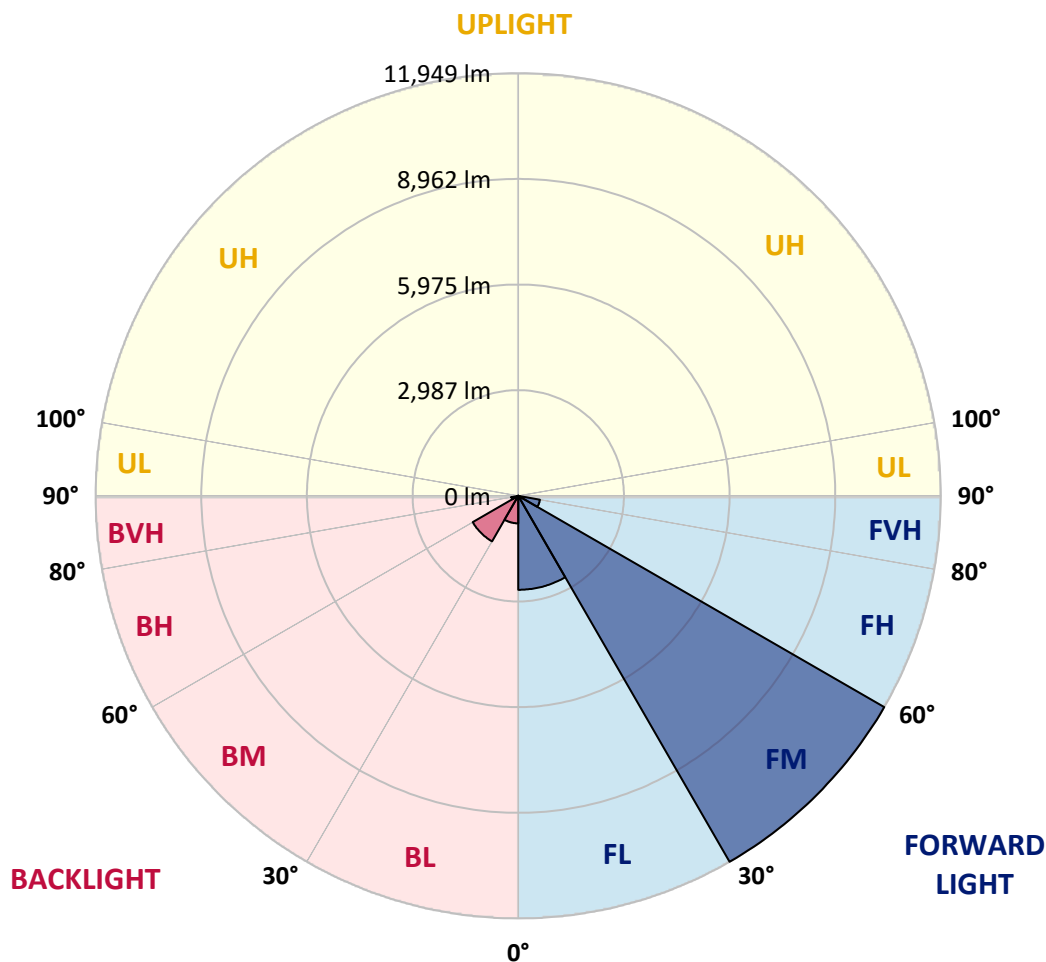
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.7	15.0			
FM (30°-60°)	11949.5	67.4			
FH (60°-80°)	623.3	3.5			G0/660
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	778.6	4.4	B2/1000		
BM (30°-60°)	1486.4	8.4	B2/2500		
BH (60°-80°)	195.4	1.1	B1/500		G1/500
BVH (80°-90°)	13.8	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	2403.1	2385.6	2347.7	2277.8	2248.7	2178.8	2138.0	2059.4	2009.8	1954.5	1893.3
5°	3384.7	3294.4	3239.0	3160.4	2930.3	2787.6	2551.7	2350.7	2257.4	2155.5	2015.7
7.5°	4398.3	4340.1	4264.4	4095.4	3938.2	3641.0	3236.2	2793.4	2604.1	2429.3	2152.5
10°	5237.2	5074.2	5065.4	4940.1	4768.3	4412.9	3926.5	3375.9	3038.1	2781.8	2347.7
12.5°	5822.7	5674.2	5741.2	5726.6	5566.4	5240.2	4678.0	3949.8	3597.4	3198.3	2548.7
15°	6355.8	6294.6	6274.2	6256.8	6192.7	5950.9	5447.0	4648.9	4139.1	3658.5	2775.9
17.5°	6877.2	6719.9	6795.6	6810.2	6804.4	6585.9	6114.0	5313.0	4713.0	4145.0	3014.8
20°	7340.3	7354.9	7253.0	7232.5	7215.1	7206.4	6746.1	5971.3	5417.9	4654.7	3326.4
22.5°	7934.6	7832.6	7922.9	7864.6	7751.0	7681.1	7328.6	6553.8	6029.5	5269.3	3644.0
25°	8636.6	8718.1	8505.5	8482.2	8356.9	8115.1	7797.7	7206.4	6617.9	5840.2	3987.7
27.5°	9501.6	9358.9	9303.6	9175.4	8948.2	8846.2	8473.4	7879.2	7328.6	6440.3	4319.7
30°	10244.4	10206.5	9929.9	9778.4	9580.3	9577.4	9056.0	8790.9	8254.9	7381.1	4777.0
32.5°	10850.2	10684.2	10582.3	10477.4	10317.2	10361.0	9921.1	9781.3	9242.4	8254.9	5315.9
35°	11255.2	11135.8	11074.5	10914.3	10867.7	11062.9	10879.4	10821.1	10378.4	9484.1	5948.0
37.5°	11383.4	11421.2	11409.5	11208.6	11307.6	11834.8	12070.8	11919.3	11686.3	10780.4	6632.5
40°	11496.9	11523.1	11464.8	11700.8	11983.4	12583.4	13436.9	13186.4	13099.0	12094.1	7585.0
42.5°	11561.0	11540.6	11540.6	11948.4	12376.6	13582.5	14756.4	14590.3	14523.4	13492.2	8686.0
45°	11284.3	11086.2	11298.8	11852.3	12714.5	14074.8	15810.8	16040.9	15944.9	15155.4	9973.5
47.5°	10250.3	10372.6	10492.0	11231.9	12303.7	13923.3	16457.4	17241.0	17418.7	16553.6	10818.2
50°	8686.0	8659.9	8907.5	9839.5	11141.6	13270.8	16332.2	17587.7	17910.9	16973.1	10995.9
52.5°	6317.9	6510.2	6778.1	7704.4	9248.2	11581.4	14715.6	16693.4	17124.5	16457.4	10879.4
55°	3678.9	3466.3	4069.2	4852.7	6309.2	8735.6	12440.7	14797.1	15595.3	15519.6	10291.0
57.5°	1473.9	1427.3	1634.1	2202.1	3291.5	5414.9	9047.2	12158.2	13436.9	14214.6	9044.4
60°	646.6	632.1	742.8	897.2	1345.8	2496.3	4948.9	7561.7	8895.8	9932.7	6224.7
62.5°	466.1	460.2	515.5	571.0	710.7	1086.5	2079.8	3046.9	3798.3	4587.7	2787.6
65°	375.8	390.3	428.2	457.3	524.3	603.0	734.0	847.6	1039.9	1077.7	614.6
67.5°	305.9	317.5	352.5	384.5	396.1	326.2	337.9	297.1	297.1	265.1	212.6
70°	224.3	227.2	267.9	305.9	244.6	131.1	230.1	230.1	206.8	198.1	180.6
72.5°	166.0	169.0	201.0	189.3	96.1	81.6	169.0	186.4	169.0	160.2	145.7
75°	122.4	125.2	104.9	43.7	40.8	52.4	99.1	128.2	122.4	119.4	110.7
77.5°	23.3	17.5	14.5	20.4	29.1	43.7	64.1	78.6	81.6	87.4	81.6
80°	2.9	2.9	8.7	17.5	32.0	46.6	67.0	75.8	78.6	81.6	75.8
82.5°	0.0	2.9	8.7	17.5	32.0	43.7	58.3	67.0	72.8	75.8	72.8
85°	0.0	2.9	5.8	14.5	26.2	32.0	29.1	20.4	17.5	20.4	14.5
87.5°	0.0	0.0	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1858.4	1846.8	1806.0	1762.2	1724.4	1741.9	1724.4	1709.8	1715.6	1709.8	1704.0
5°	1960.4	1907.9	1820.5	1782.7	1750.6	1747.7	1738.9	1736.1	1738.9	1738.9	1712.8
7.5°	2056.5	1972.0	1878.8	1838.0	1800.2	1803.0	1782.7	1782.7	1779.7	1765.2	1759.4
10°	2202.1	2088.5	1969.0	1896.3	1849.6	1840.9	1820.5	1800.2	1800.2	1800.2	1771.0
12.5°	2362.3	2219.6	2056.5	1972.0	1916.6	1872.9	1840.9	1835.1	1803.0	1797.2	1782.7
15°	2502.1	2321.5	2114.7	1998.2	1928.3	1870.0	1820.5	1788.5	1773.9	1765.2	1753.5
17.5°	2639.1	2408.9	2146.7	1998.2	1922.4	1855.5	1803.0	1773.9	1738.9	1744.8	1721.4
20°	2822.6	2502.1	2155.5	1960.4	1867.1	1803.0	1733.1	1718.6	1698.1	1680.7	1686.5
22.5°	3000.2	2569.1	2129.2	1913.7	1779.7	1704.0	1669.0	1651.6	1642.8	1628.3	1607.9
25°	3160.4	2641.9	2088.5	1829.3	1686.5	1631.2	1599.2	1596.2	1575.9	1575.9	1537.9
27.5°	3323.5	2668.2	2018.6	1730.2	1605.0	1572.9	1558.4	1552.6	1543.8	1523.4	1497.2
30°	3510.0	2676.9	1916.6	1628.3	1532.1	1497.2	1517.6	1532.1	1494.3	1456.4	1468.0
32.5°	3664.3	2656.5	1794.3	1532.1	1479.7	1462.2	1503.0	1517.6	1473.9	1433.1	1412.7
35°	3850.8	2607.0	1674.9	1456.4	1427.3	1462.2	1497.2	1497.2	1409.8	1360.3	1348.6
37.5°	4133.3	2551.7	1564.2	1392.4	1371.9	1444.8	1491.3	1459.3	1322.4	1261.2	1246.7
40°	4436.3	2516.7	1456.4	1328.3	1342.8	1415.7	1441.8	1342.8	1203.0	1165.1	1153.5
42.5°	4876.0	2446.8	1360.3	1272.9	1316.6	1374.9	1374.9	1197.2	1144.8	1124.3	1121.5
45°	5423.7	2397.3	1275.8	1226.3	1278.7	1293.3	1246.7	1121.5	1083.5	1077.7	1080.7
47.5°	5691.6	2301.1	1188.4	1170.9	1208.9	1211.7	1089.4	1060.2	1028.2	1019.5	1013.7
50°	5650.8	2129.2	1074.8	1098.2	1150.6	1121.5	993.3	999.1	970.0	967.1	952.5
52.5°	5365.4	1858.4	961.3	1016.6	1074.8	990.4	914.6	908.8	908.8	870.9	856.4
55°	4756.6	1497.2	824.3	894.2	964.1	833.1	812.7	806.9	792.3	757.3	748.6
57.5°	3766.3	1098.2	620.4	696.2	818.5	707.8	704.9	678.7	640.8	614.6	614.6
60°	2240.0	632.1	390.3	425.3	541.8	573.8	637.9	626.3	562.2	521.4	509.7
62.5°	1022.4	326.2	247.6	253.4	291.3	372.8	501.0	579.6	489.4	419.4	413.6
65°	343.7	241.8	203.9	195.2	201.0	224.3	300.0	410.7	390.3	323.4	311.7
67.5°	209.7	215.5	192.3	177.7	177.7	174.8	171.8	186.4	230.1	224.3	227.2
70°	180.6	198.1	177.7	160.2	154.4	145.7	122.4	101.9	87.4	101.9	107.8
72.5°	145.7	157.3	151.5	136.9	122.4	110.7	87.4	67.0	49.5	43.7	43.7
75°	107.8	116.5	122.4	104.9	93.2	78.6	64.1	43.7	26.2	17.5	17.5
77.5°	78.6	87.4	90.3	81.6	69.9	55.3	40.8	29.1	14.5	5.8	5.8
80°	67.0	78.6	87.4	81.6	72.8	52.4	37.8	20.4	11.7	2.9	2.9
82.5°	64.1	78.6	87.4	78.6	69.9	49.5	37.8	23.3	8.7	2.9	2.9
85°	14.5	20.4	26.2	32.0	37.8	37.8	29.1	17.5	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	0.0
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)