

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: P646800

Luminaire Tested: **GALN-SA2C-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11133.5 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

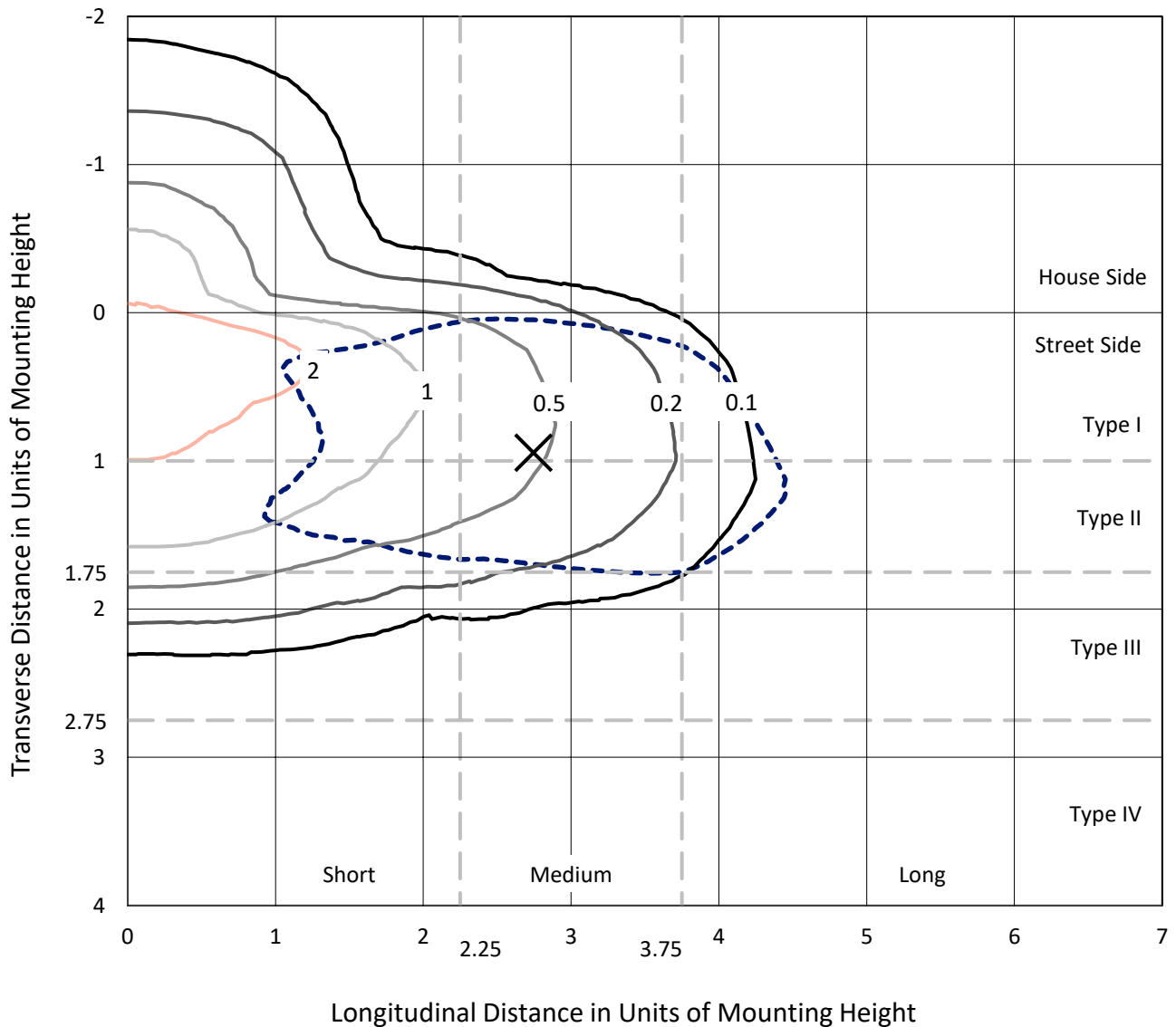
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

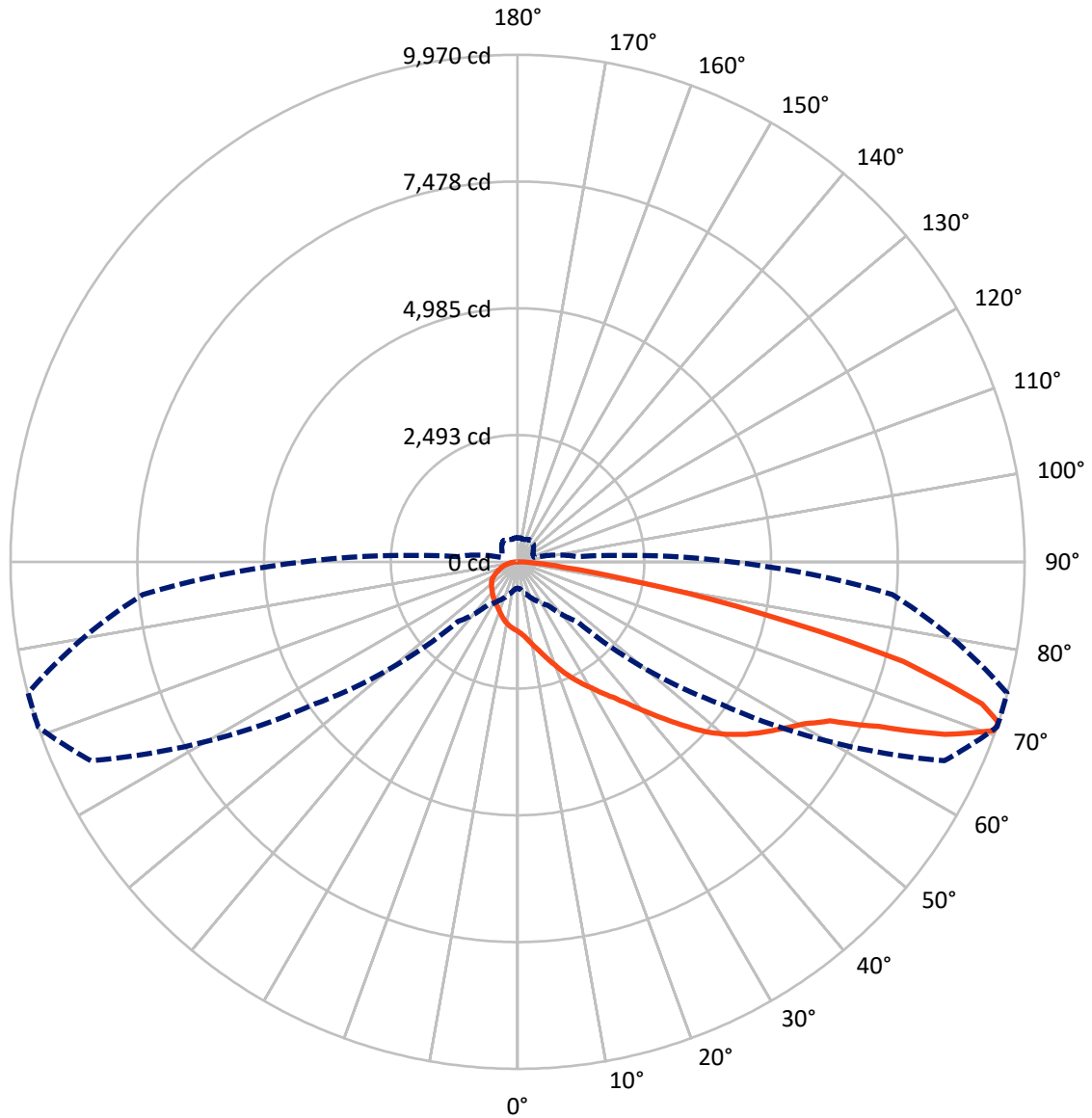
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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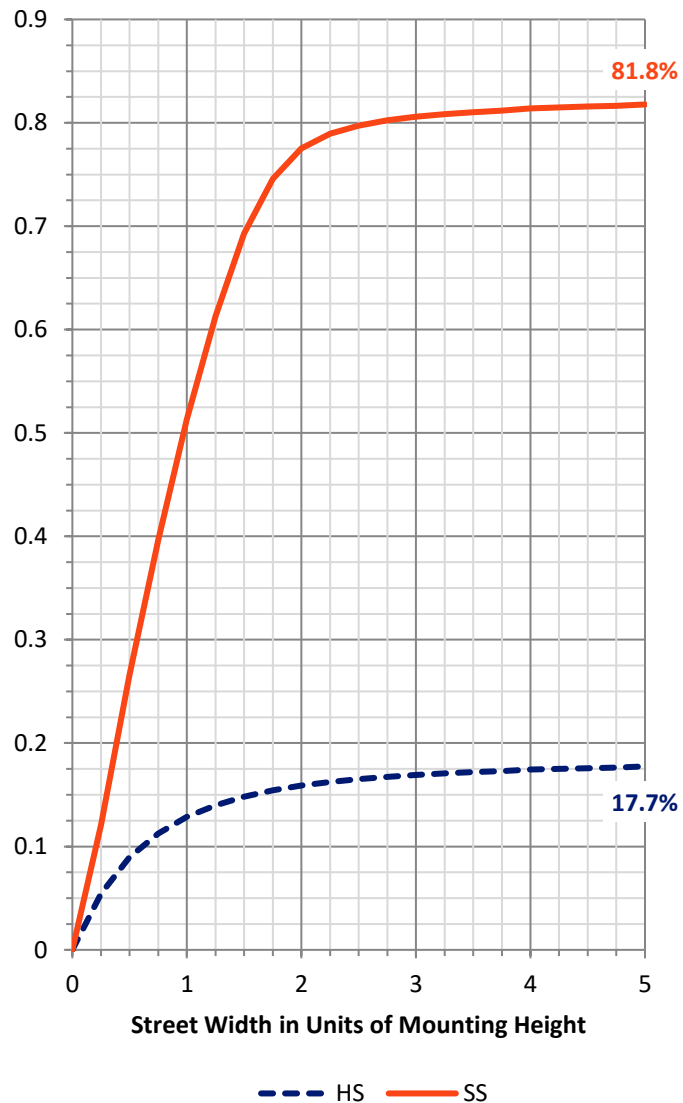
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2002.3	0.0	2002.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9131.2	0.0	9131.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	11133.5	0.0	11133.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.2
10°-20°	445.7	4.0
20°-30°	779.0	7.0
30°-40°	1158.6	10.4
40°-50°	1707.1	15.3
50°-60°	2389.9	21.5
60°-70°	2673.1	24.0
70°-80°	1632.8	14.7
80°-90°	210.0	1.9
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°	11133.5	100.0
0°-180°	11133.5	100.0

Coefficient of Utilization

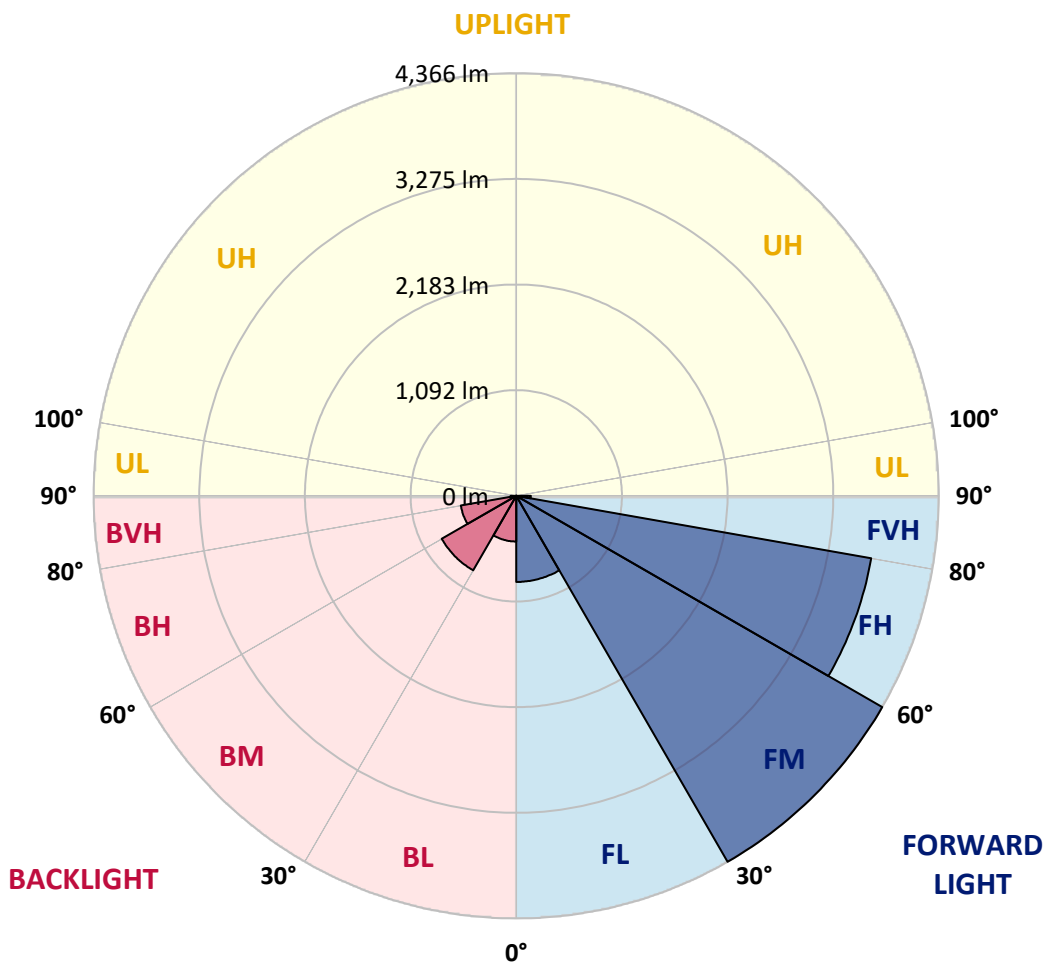


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.6	8.0			
FM (30°-60°)	4366.3	39.2			
FH (60°-80°)	3724.1	33.4			G2/5000
FVH (80°-90°)	151.1	1.4			G2/225
BL (0°-30°)	472.3	4.2	B1/500		
BM (30°-60°)	889.3	8.0	B1/1000		
BH (60°-80°)	581.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	58.9	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4
2.5°	1517.0	1509.6	1510.3	1499.8	1486.4	1471.6	1450.8	1432.5	1417.8	1409.2	1384.2
5°	1680.9	1673.6	1664.4	1641.8	1632.0	1595.9	1550.0	1508.4	1476.6	1458.8	1408.6
7.5°	1813.7	1811.9	1809.4	1796.6	1771.5	1721.3	1682.2	1609.9	1562.9	1529.2	1443.5
10°	1895.7	1898.8	1900.7	1903.1	1892.7	1866.4	1812.5	1721.3	1661.4	1618.5	1488.8
12.5°	1937.3	1940.4	1950.8	1973.5	1987.5	1984.4	1940.4	1851.1	1768.5	1712.2	1537.1
15°	1963.1	1967.9	1986.3	2016.3	2063.4	2093.4	2072.0	1989.4	1898.8	1832.1	1594.7
17.5°	1991.2	1996.7	2016.9	2059.7	2121.5	2186.4	2209.6	2138.7	2040.1	1960.6	1658.9
20°	2007.1	2014.4	2043.2	2099.5	2171.7	2265.9	2343.0	2305.7	2198.0	2109.9	1732.9
22.5°	2032.8	2038.9	2063.4	2123.3	2209.6	2327.7	2476.5	2468.5	2373.7	2259.8	1814.4
25°	2102.6	2112.4	2124.6	2160.7	2243.9	2390.7	2587.2	2642.2	2543.7	2416.5	1889.0
27.5°	2234.1	2242.0	2241.5	2246.3	2293.5	2445.2	2683.3	2814.2	2712.6	2575.0	1961.2
30°	2384.0	2387.1	2389.6	2378.5	2388.9	2500.9	2771.4	2984.3	2882.8	2737.8	2024.2
32.5°	2566.4	2572.5	2551.7	2523.5	2515.0	2583.5	2844.2	3154.5	3084.1	2903.0	2086.6
35°	2781.8	2797.7	2755.5	2705.9	2671.0	2702.2	2942.1	3328.2	3290.3	3114.1	2169.2
37.5°	3027.8	3047.4	3008.2	2910.9	2861.3	2869.9	3070.0	3543.0	3551.0	3354.5	2292.2
40°	3229.1	3254.8	3256.0	3118.4	3043.1	3052.8	3232.1	3774.3	3865.5	3651.9	2437.2
42.5°	3361.9	3386.9	3413.3	3332.5	3253.6	3309.3	3421.2	4025.2	4219.2	4013.0	2639.8
45°	3507.5	3530.2	3544.9	3508.2	3464.1	3608.5	3649.5	4292.0	4596.1	4416.2	2861.3
47.5°	3676.4	3701.5	3715.6	3680.7	3664.2	3871.0	3895.5	4541.1	4998.8	4807.9	3106.1
50°	3901.6	3920.6	3913.2	3891.2	3887.5	4072.3	4131.7	4774.2	5331.1	5229.4	3360.0
52.5°	4181.8	4204.5	4212.5	4181.2	4167.2	4216.1	4322.0	4986.5	5633.3	5591.7	3631.2
55°	4351.4	4387.5	4508.6	4557.6	4591.2	4402.2	4527.0	5220.9	5904.4	5973.6	3922.4
57.5°	4134.2	4180.6	4451.7	4696.5	5012.8	4867.2	4817.6	5465.7	6175.5	6343.8	4271.2
60°	3604.2	3614.6	3964.0	4415.0	5051.4	5465.0	5424.1	5854.8	6469.2	6717.0	4730.7
62.5°	2500.3	2522.4	2935.4	3655.0	4575.3	5680.4	6455.8	6526.7	6890.2	7275.7	5404.5
65°	1289.3	1260.6	1636.9	2297.2	3449.3	5168.9	7291.6	7762.2	7803.2	8149.5	6352.9
67.5°	793.6	806.5	982.7	1341.4	2039.6	3756.6	7204.1	9271.8	9055.8	9222.3	7233.5
70°	596.0	611.9	733.0	917.9	1243.4	2147.8	5793.7	9637.7	9939.4	9896.6	7501.5
71°	518.3	534.8	660.9	835.3	1044.5	1657.7	4881.3	9254.7	9970.0	9962.7	7400.5
72.5°	441.8	452.2	550.8	707.4	880.6	1162.1	3667.3	8300.0	9544.7	9788.8	7040.1
75°	346.9	354.9	398.9	539.7	693.3	713.5	1967.9	6222.6	7839.3	8304.3	5861.0
77.5°	282.7	288.2	310.9	400.8	534.8	505.4	1032.3	4050.3	4911.3	5379.4	3452.5
80°	224.6	230.7	244.1	271.7	400.8	360.4	492.6	2052.4	2372.4	2367.5	1378.1
82.5°	174.4	176.3	192.1	199.5	274.1	255.8	266.8	868.9	962.5	994.3	497.5
85°	110.2	115.6	170.1	153.0	164.0	149.9	131.5	345.1	425.2	419.1	198.9
87.5°	33.7	35.5	57.6	64.8	72.8	65.5	48.3	101.6	124.2	134.6	49.6
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°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4
2.5°	1374.4	1367.7	1343.8	1324.2	1305.8	1285.6	1268.5	1263.6	1259.3	1257.5	1256.9
5°	1387.2	1367.0	1319.9	1281.4	1250.8	1222.6	1204.9	1196.9	1189.0	1189.0	1191.4
7.5°	1405.6	1368.8	1296.0	1238.5	1199.9	1173.6	1160.8	1159.6	1161.4	1163.2	1163.9
10°	1425.8	1367.7	1261.2	1189.5	1155.3	1143.1	1143.6	1154.1	1163.9	1171.2	1172.5
12.5°	1445.3	1360.3	1220.1	1143.6	1121.6	1124.1	1141.2	1164.5	1183.4	1193.8	1194.5
15°	1467.4	1348.6	1170.6	1100.2	1092.9	1111.9	1143.6	1179.2	1207.9	1225.1	1226.9
17.5°	1485.7	1329.1	1118.6	1058.0	1067.2	1102.1	1146.2	1192.0	1226.9	1248.3	1252.0
20°	1506.6	1304.0	1064.7	1017.6	1043.9	1091.0	1141.2	1190.8	1226.9	1247.7	1252.6
22.5°	1523.1	1268.5	1013.4	984.5	1023.1	1077.6	1124.7	1164.5	1193.8	1204.9	1212.2
25°	1529.8	1223.8	965.0	957.7	1006.6	1055.6	1087.4	1110.1	1119.2	1118.0	1121.0
27.5°	1526.1	1172.5	923.4	936.2	985.8	1021.3	1037.2	1035.4	1018.8	1003.6	1010.9
30°	1510.8	1111.2	888.5	914.2	958.9	978.4	976.0	952.1	921.0	892.2	894.0
32.5°	1483.3	1045.1	856.1	889.1	921.0	929.5	913.0	881.7	837.1	799.8	794.3
35°	1460.1	982.1	827.3	860.4	883.0	878.7	862.8	822.4	782.1	749.0	743.5
37.5°	1456.4	928.2	799.8	827.9	840.8	834.7	815.1	780.8	766.1	741.0	738.0
40°	1476.0	890.3	771.6	793.6	799.8	794.9	773.4	753.9	767.3	761.2	761.2
42.5°	1529.2	870.1	746.5	759.4	764.3	768.0	752.7	736.2	752.7	724.5	715.3
45°	1613.6	870.8	723.9	725.8	740.4	753.2	742.8	718.4	709.8	653.5	642.5
47.5°	1737.9	891.6	705.6	693.9	720.2	741.7	726.9	691.5	653.5	616.2	609.5
50°	1882.9	928.9	689.0	660.9	693.3	726.9	716.0	674.3	635.2	612.5	608.2
52.5°	2043.8	976.0	668.8	624.1	660.2	720.2	718.4	671.9	618.0	602.8	599.1
55°	2242.7	1022.5	643.7	581.3	630.9	714.7	711.7	651.7	614.3	603.4	602.1
57.5°	2474.0	1089.9	607.6	537.8	597.2	692.1	685.4	639.5	602.1	594.1	593.6
60°	2846.7	1194.5	556.2	498.1	563.0	652.3	660.9	618.6	582.6	580.7	580.1
62.5°	3336.8	1341.4	503.0	457.1	523.2	600.9	625.4	590.5	561.7	570.9	572.1
65°	4013.6	1464.9	448.0	422.2	479.1	551.3	591.7	564.2	538.5	556.2	556.2
67.5°	4454.8	1467.4	397.8	386.1	434.5	509.7	556.2	533.0	508.5	538.5	539.7
70°	4363.0	1285.6	356.1	348.2	391.0	465.0	517.1	498.7	470.6	497.5	487.7
71°	4214.9	1184.7	339.6	333.5	373.9	443.6	498.7	483.4	455.2	473.0	467.5
72.5°	3978.7	1028.6	312.7	313.9	348.2	416.7	473.0	457.1	428.9	438.7	436.9
75°	3363.1	898.3	267.4	273.0	299.3	370.8	421.6	409.4	380.6	380.6	378.8
77.5°	2102.6	627.8	222.1	225.2	253.9	317.6	362.3	351.9	324.3	315.2	312.7
80°	784.5	324.3	173.7	177.4	195.2	250.2	299.8	290.0	261.9	251.5	241.7
82.5°	296.8	162.8	127.9	124.8	143.8	190.9	235.0	223.3	201.3	176.3	168.9
85°	112.0	80.8	78.3	75.9	84.4	113.2	145.6	143.2	120.0	102.2	100.4
87.5°	29.4	26.3	30.6	22.6	23.9	21.5	22.0	9.2	4.3	1.8	1.3
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)