

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: P651744

Luminaire Tested: **GALN-SA2A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6487.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

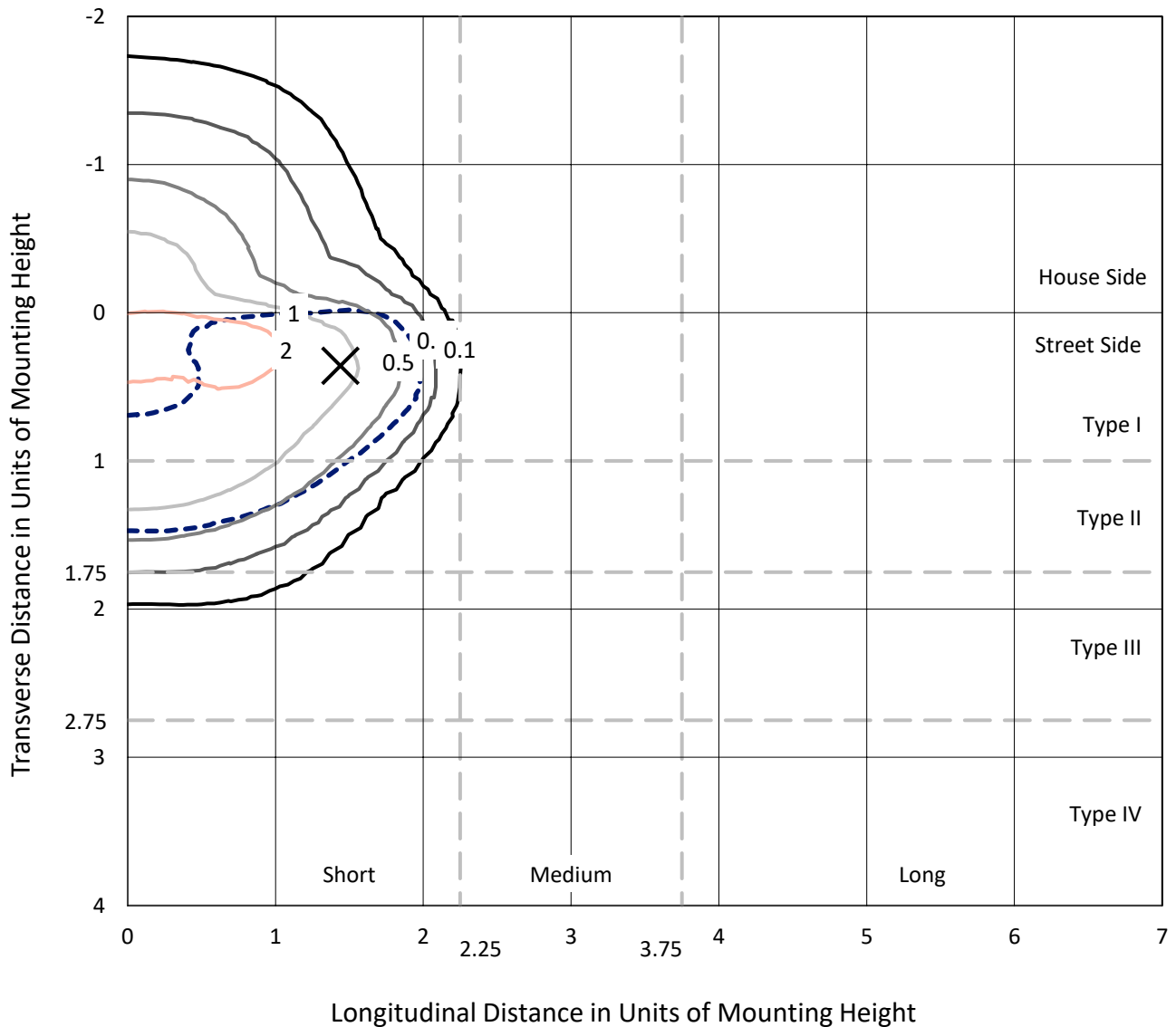
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

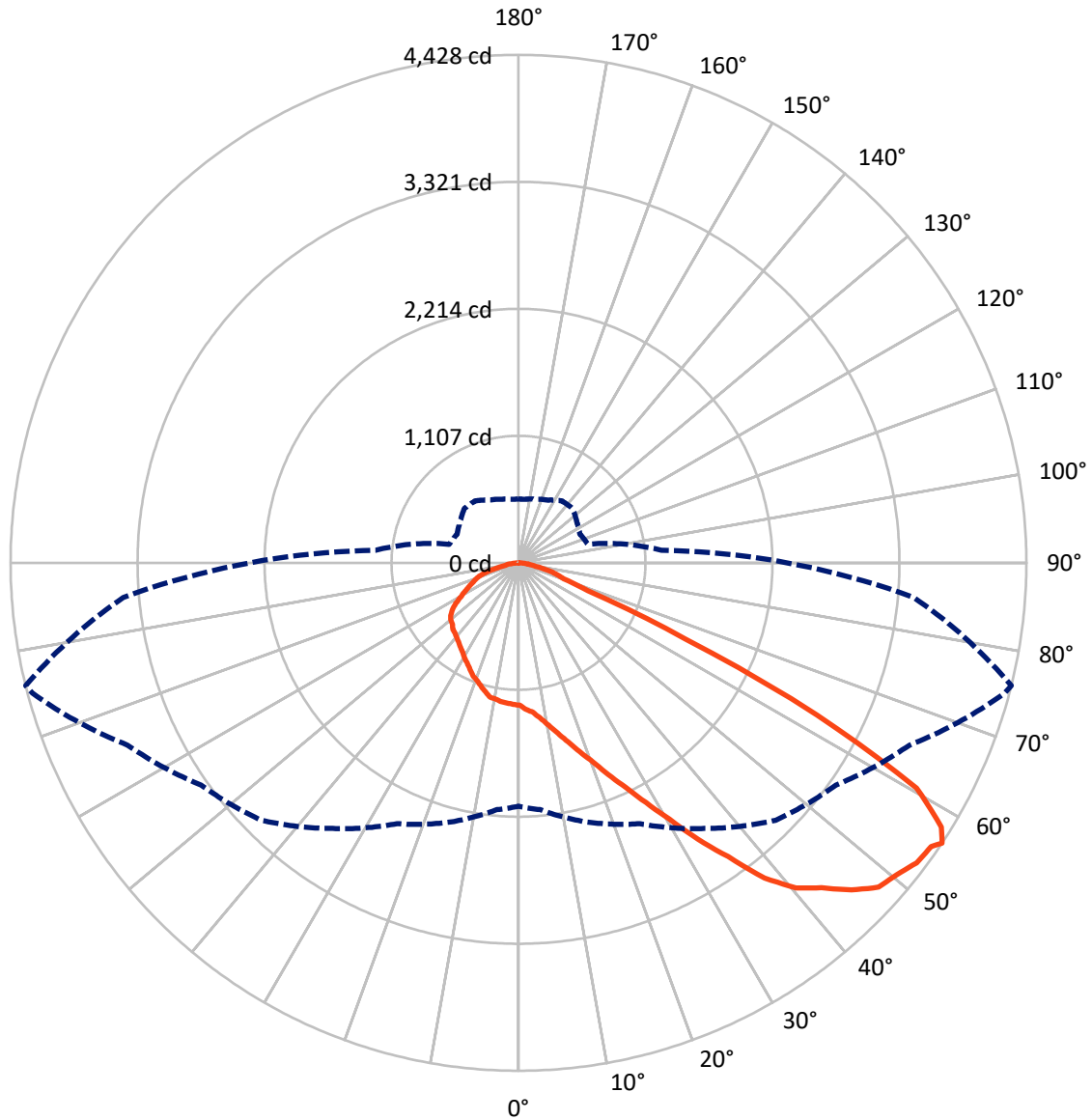
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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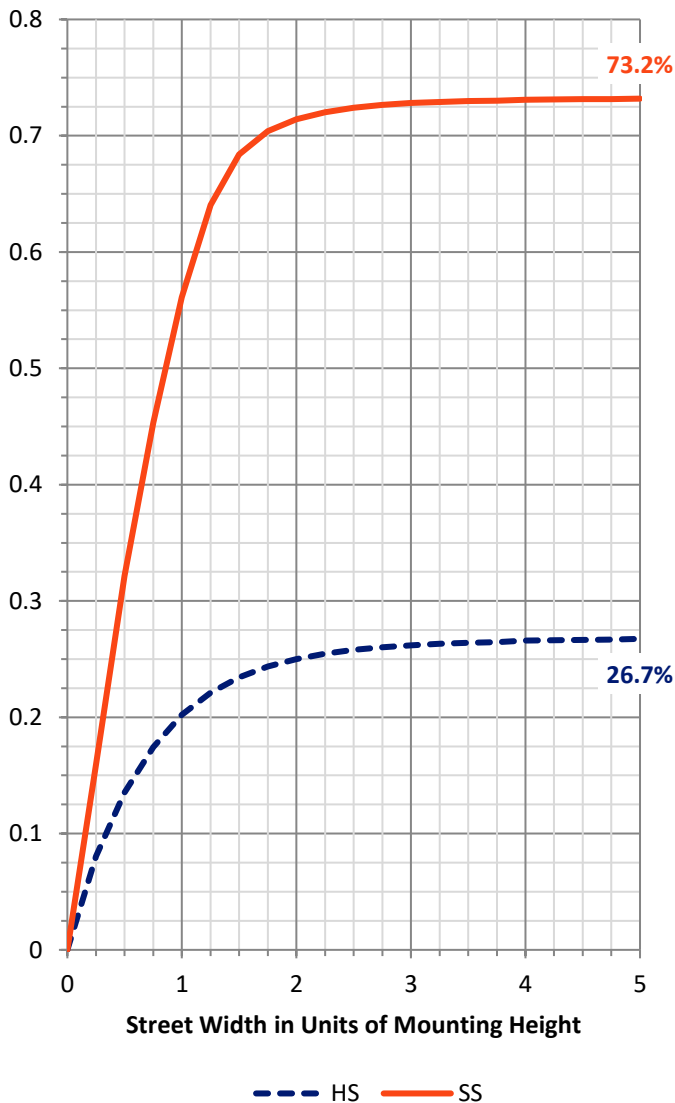
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1744.3	0.0	1744.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	4743.2	0.0	4743.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	6487.5	0.0	6487.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	1.9
10°-20°	386.7	6.0
20°-30°	676.3	10.4
30°-40°	1058.9	16.3
40°-50°	1540.3	23.7
50°-60°	1692.9	26.1
60°-70°	755.7	11.6
70°-80°	218.3	3.4
80°-90°	35.4	0.5
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°	6487.5	100.0
0°-180°	6487.5	100.0

Coefficient of Utilization



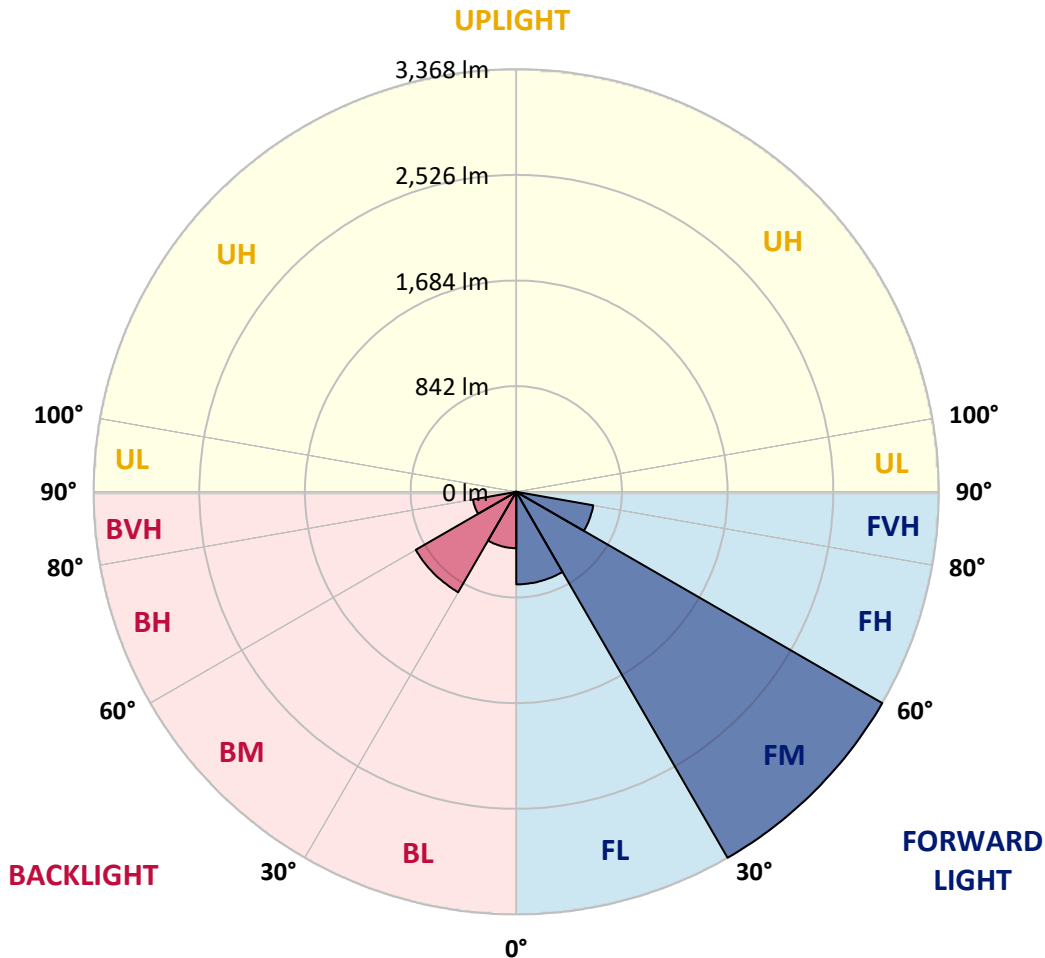
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.2	11.4			
FM (30°-60°)	3367.8	51.9			
FH (60°-80°)	623.0	9.6			G0/660
FVH (80°-90°)	15.2	0.2			G1/100
BL (0°-30°)	448.8	6.9	B1/500		
BM (30°-60°)	924.3	14.2	B1/1000		
BH (60°-80°)	351.0	5.4	B1/500		G1/500
BVH (80°-90°)	20.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3
2.5°	1367.5	1345.6	1343.9	1338.0	1341.4	1326.3	1310.3	1289.3	1267.4	1280.8	1248.9
5°	1463.3	1433.9	1445.7	1425.5	1428.0	1407.8	1375.0	1350.6	1323.7	1307.8	1285.0
7.5°	1497.0	1499.5	1507.9	1504.5	1487.7	1487.7	1465.9	1423.0	1375.9	1366.6	1328.8
10°	1542.4	1543.2	1534.0	1536.5	1560.1	1549.1	1529.8	1511.3	1450.7	1439.8	1372.5
12.5°	1558.4	1543.2	1558.4	1571.8	1599.6	1614.7	1610.5	1597.1	1532.3	1524.7	1426.3
15°	1560.9	1551.6	1564.3	1594.5	1618.9	1682.8	1714.8	1705.5	1619.8	1620.6	1486.9
17.5°	1549.1	1561.7	1566.8	1592.9	1649.2	1708.9	1801.4	1814.0	1743.4	1732.5	1563.4
20°	1565.1	1555.8	1562.6	1586.1	1661.0	1754.3	1875.4	1958.7	1859.5	1851.9	1642.5
22.5°	1626.5	1613.9	1612.2	1627.3	1681.2	1777.9	1953.6	2103.3	2000.7	2004.9	1740.9
25°	1674.4	1681.2	1675.3	1674.4	1708.1	1813.2	2057.1	2275.7	2192.5	2168.1	1856.9
27.5°	1756.8	1772.8	1761.1	1777.0	1769.5	1866.2	2131.1	2466.7	2399.4	2366.6	1962.1
30°	1871.2	1879.6	1868.7	1868.7	1846.0	1940.2	2198.4	2665.9	2638.1	2593.6	2085.7
32.5°	2021.8	2034.4	2012.5	1999.9	1996.5	2050.4	2319.5	2862.7	2909.8	2871.9	2249.7
35°	2221.1	2213.5	2187.4	2175.7	2130.3	2219.4	2499.4	3088.9	3212.5	3145.3	2448.2
37.5°	2396.8	2385.1	2383.4	2317.8	2328.7	2401.9	2652.4	3260.5	3506.0	3486.7	2657.5
40°	2560.8	2571.7	2589.4	2552.4	2535.5	2616.3	2830.7	3391.7	3734.0	3726.4	2818.9
42.5°	2736.5	2726.4	2757.6	2726.4	2701.2	2815.6	3024.2	3482.5	3934.1	3871.9	2988.0
45°	2991.4	2959.4	2970.3	2972.9	2954.3	2996.4	3104.0	3548.1	4074.6	4067.8	3111.6
47.5°	3204.1	3205.0	3186.5	3172.2	3115.8	3157.9	3193.2	3589.3	4236.0	4225.1	3159.6
50°	3283.2	3272.2	3326.1	3357.2	3360.6	3274.8	3263.0	3612.0	4321.0	4273.0	3207.5
52.5°	2998.9	3009.0	3094.0	3279.0	3385.8	3395.0	3344.6	3659.1	4355.5	4345.4	3246.2
55°	2413.7	2462.4	2602.0	2815.6	3068.7	3347.1	3432.9	3707.9	4374.0	4365.5	3417.7
56°	2121.8	2159.7	2341.3	2508.6	2826.5	3173.0	3377.4	3760.0	4388.3	4427.8	3458.1
57.5°	1708.1	1751.8	1882.2	2072.2	2447.3	2841.7	3224.3	3696.1	4332.7	4347.9	3487.5
60°	1068.1	1072.3	1228.7	1354.0	1618.1	2003.3	2460.8	3215.9	4009.8	3987.9	3132.6
62.5°	700.6	701.4	843.5	946.1	1066.4	1154.7	1448.2	2132.8	2958.6	2919.9	2230.3
65°	492.0	502.9	613.1	750.2	798.9	752.7	743.4	1124.4	1652.6	1597.1	1198.4
67.5°	359.9	360.8	458.3	605.5	676.2	572.7	465.1	549.2	654.3	652.6	555.1
70°	238.0	248.1	322.9	452.5	533.2	460.0	380.1	392.7	416.3	416.3	412.9
72.5°	138.8	148.0	197.6	286.8	299.4	287.6	301.1	336.4	351.5	350.7	346.5
75°	79.1	83.3	94.2	119.4	148.9	175.8	221.2	254.8	270.0	279.2	268.3
77.5°	46.3	48.8	55.5	68.1	77.4	95.0	120.3	143.8	164.0	161.5	163.2
80°	24.4	24.4	31.1	40.4	53.8	67.3	79.9	93.4	104.3	106.8	109.3
82.5°	14.3	15.1	20.2	29.4	38.7	47.9	61.4	70.6	80.7	81.6	83.3
85°	7.6	8.4	12.6	19.3	26.1	29.4	30.3	28.6	31.1	29.4	33.6
87.5°	2.5	2.5	4.2	3.4	3.4	4.2	5.0	5.0	6.7	6.7	6.7
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°	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3	1241.3
2.5°	1248.0	1248.0	1233.7	1206.8	1202.6	1191.7	1181.6	1180.8	1173.2	1166.5	1163.1
5°	1271.6	1245.5	1224.5	1200.1	1171.5	1158.1	1142.9	1126.1	1119.4	1126.1	1125.3
7.5°	1298.5	1276.6	1213.6	1168.1	1135.4	1121.9	1105.1	1087.4	1089.1	1089.1	1077.3
10°	1324.6	1295.1	1194.2	1136.2	1088.3	1078.2	1068.9	1075.6	1084.0	1085.7	1078.2
12.5°	1368.3	1301.9	1185.0	1104.2	1074.0	1052.1	1058.0	1076.5	1094.1	1089.1	1095.0
15°	1401.1	1307.8	1142.9	1071.4	1033.6	1043.7	1064.7	1077.3	1106.8	1103.4	1109.3
17.5°	1433.1	1311.1	1101.7	1027.7	1011.7	1039.5	1055.5	1091.6	1100.9	1121.1	1128.6
20°	1498.7	1317.8	1059.7	1000.8	995.7	1027.7	1055.5	1072.3	1092.5	1110.1	1110.1
22.5°	1532.3	1314.5	1031.9	965.5	981.4	1001.6	1026.9	1055.5	1055.5	1072.3	1073.1
25°	1574.4	1301.0	988.2	948.6	960.4	979.8	1008.4	998.3	1009.2	1009.2	1022.7
27.5°	1622.3	1272.4	950.3	918.4	941.9	962.9	967.2	960.4	947.8	946.1	941.1
30°	1661.0	1237.1	922.6	908.3	927.6	939.4	925.9	911.6	889.8	888.1	876.3
32.5°	1714.0	1193.4	888.1	883.0	904.9	905.8	901.6	879.7	847.7	834.3	820.8
35°	1803.1	1168.1	862.0	869.6	876.3	873.8	866.2	842.7	810.7	804.8	799.8
37.5°	1868.7	1149.6	835.1	844.4	850.3	853.6	830.9	804.8	805.7	793.9	790.5
40°	1942.7	1137.9	813.2	817.5	818.3	829.2	801.5	788.9	794.7	787.2	792.2
42.5°	2037.7	1141.2	790.5	787.2	803.2	798.9	785.5	768.7	772.0	749.3	752.7
45°	2088.2	1163.9	777.1	761.9	779.6	778.8	761.1	745.1	724.9	681.2	682.9
47.5°	2121.8	1169.8	745.1	735.0	753.5	764.5	744.3	707.3	678.7	647.6	640.0
50°	2156.3	1180.8	730.0	709.0	716.5	742.6	717.4	682.1	654.3	626.5	630.8
52.5°	2186.6	1201.8	700.6	669.4	682.9	711.5	698.0	655.1	624.9	602.2	595.4
55°	2321.2	1248.9	650.9	610.6	642.5	678.7	671.1	619.0	586.2	574.4	572.7
56°	2342.2	1250.6	624.9	590.4	619.8	667.8	658.5	603.0	573.6	555.1	555.9
57.5°	2345.5	1230.4	587.9	571.9	597.1	651.8	640.0	590.4	550.0	533.2	528.1
60°	2063.8	960.4	541.6	531.5	560.9	603.0	598.8	555.9	510.5	491.1	500.4
62.5°	1407.0	703.9	505.4	503.8	518.9	560.1	549.2	510.5	472.6	460.0	454.1
65°	819.1	534.0	470.1	463.4	476.0	497.9	505.4	465.1	425.5	417.1	414.6
67.5°	483.6	441.5	424.7	413.8	409.6	423.0	428.9	405.4	365.8	354.1	364.2
70°	404.5	392.7	393.6	375.1	365.0	355.7	350.7	329.7	296.9	281.7	277.5
72.5°	349.0	344.0	340.6	323.8	314.5	293.5	271.6	250.6	226.2	213.6	214.5
75°	266.6	264.9	266.6	258.2	242.2	225.4	205.2	178.3	159.8	143.8	147.2
77.5°	158.9	164.0	166.5	163.2	156.4	141.3	128.7	111.0	93.4	80.7	79.1
80°	109.3	113.5	117.7	113.5	106.8	95.9	82.4	69.0	56.3	49.6	47.9
82.5°	83.3	87.5	90.0	85.8	77.4	65.6	56.3	47.1	37.0	30.3	28.6
85°	30.3	34.5	33.6	40.4	43.7	42.0	36.2	27.8	21.0	15.1	14.3
87.5°	8.4	7.6	8.4	8.4	8.4	7.6	6.7	6.7	6.7	4.2	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)