

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: P647242

Luminaire Tested: **GALN-SA1D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5225 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

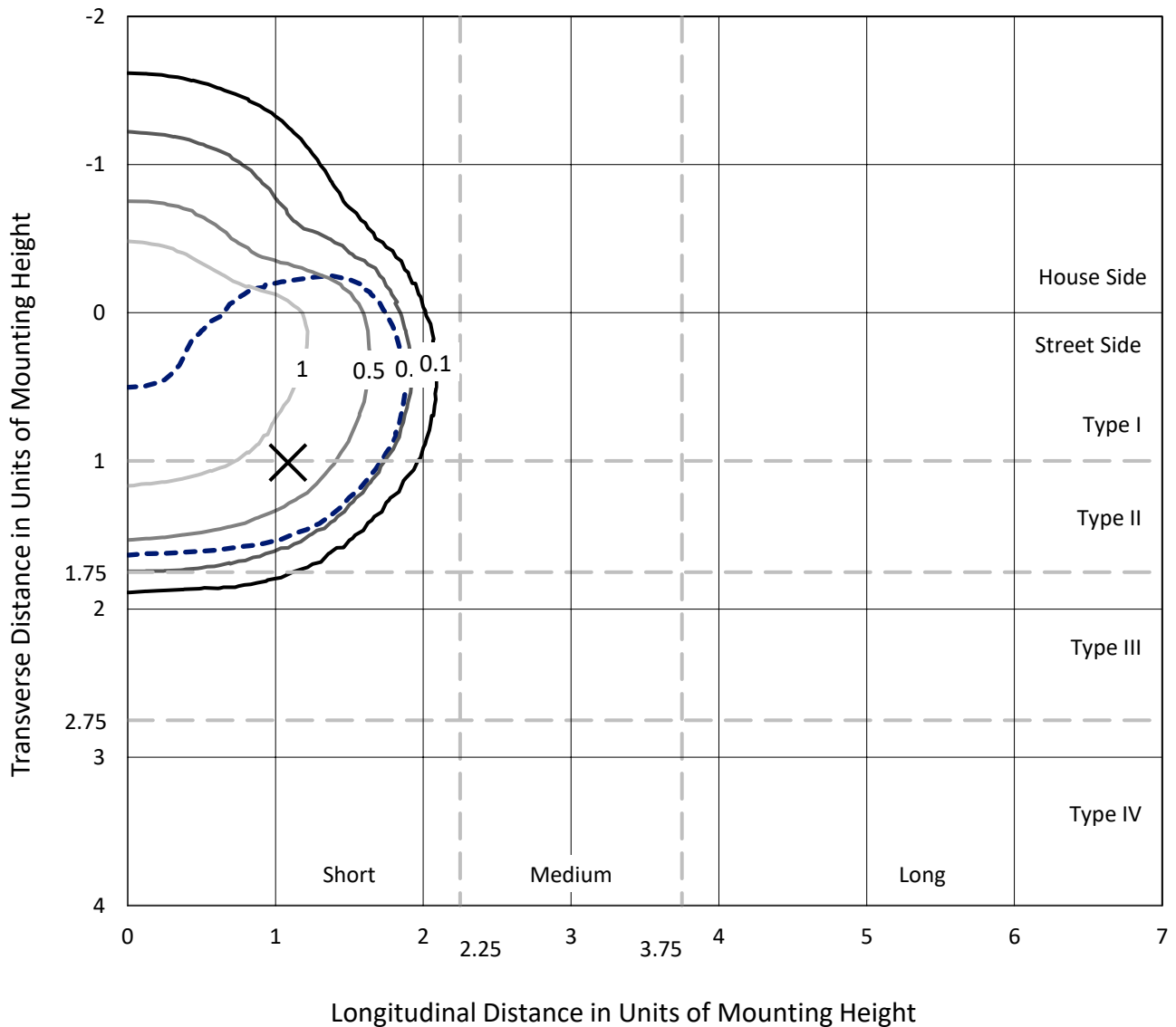
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

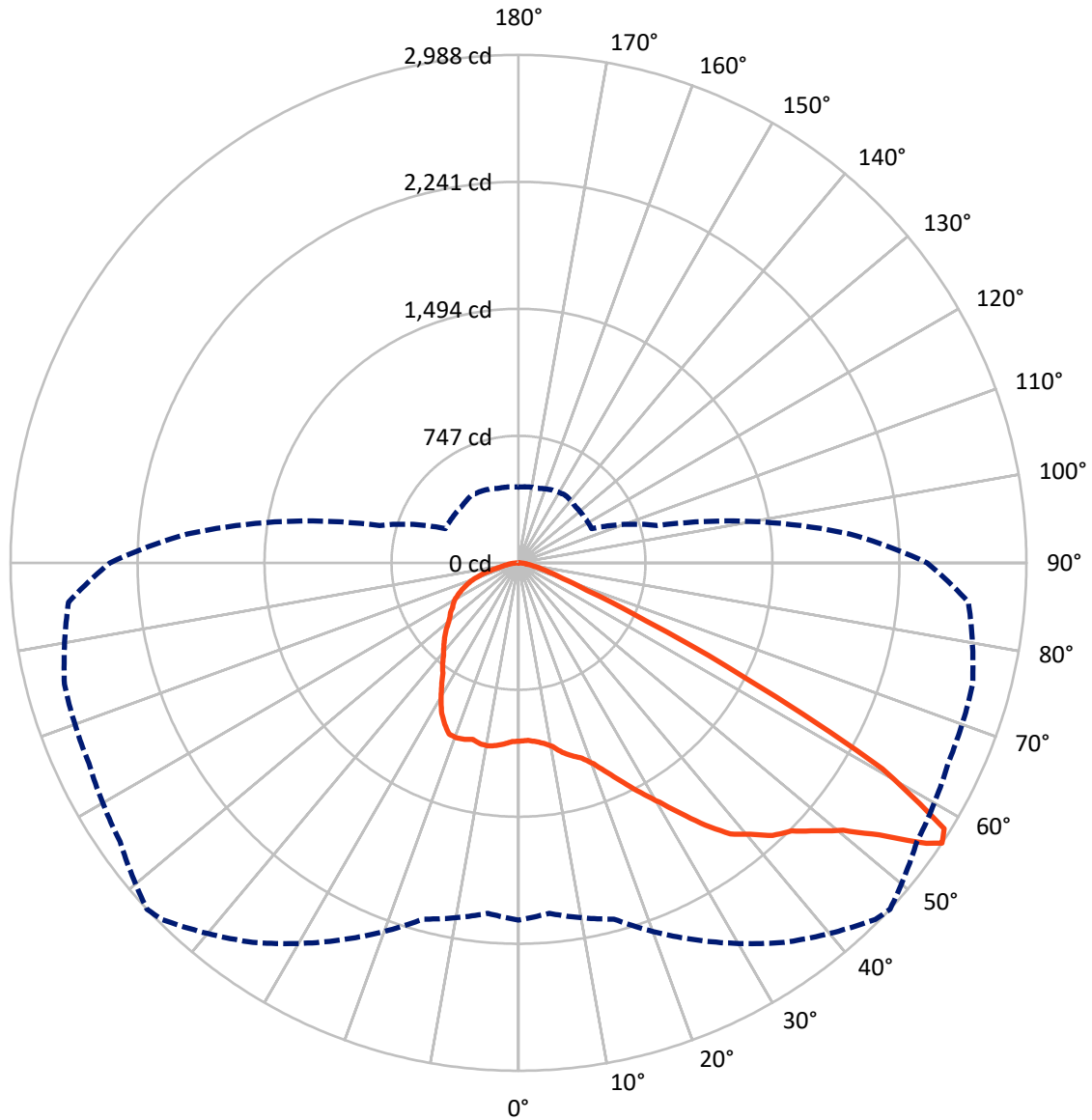
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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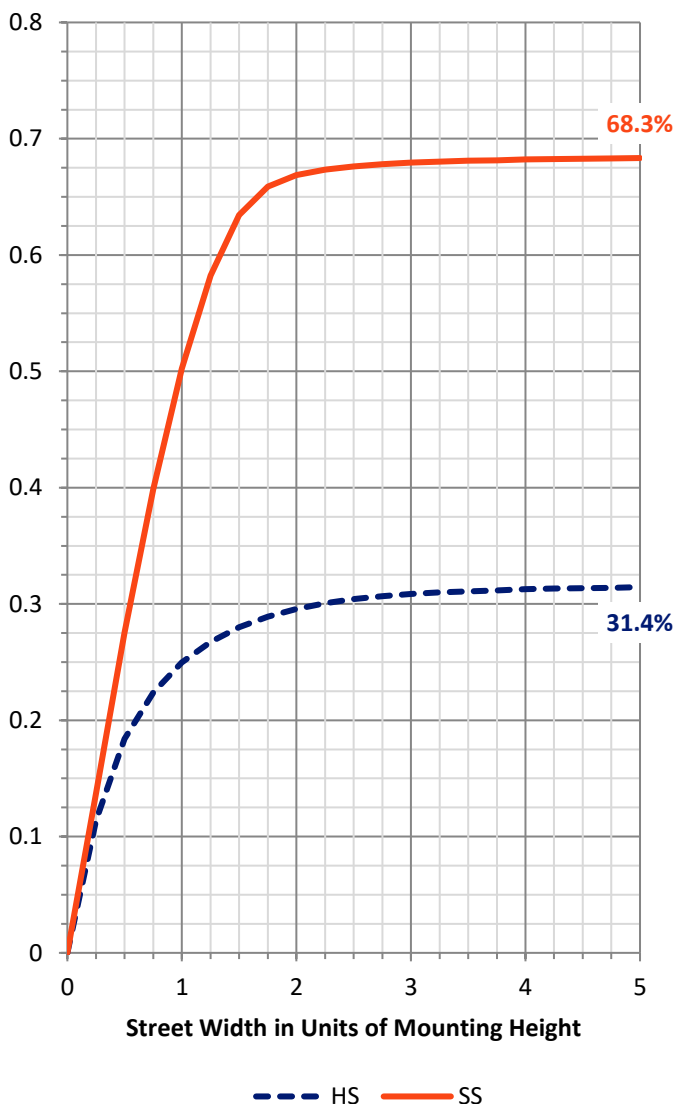
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.7	0.0	1655.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3569.2	0.0	3569.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	5225.0	0.0	5225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	2.0
10°-20°	322.6	6.2
20°-30°	570.3	10.9
30°-40°	856.5	16.4
40°-50°	1175.5	22.5
50°-60°	1400.4	26.8
60°-70°	599.3	11.5
70°-80°	169.6	3.2
80°-90°	28.5	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°	5225.0	100.0
0°-180°	5225.0	100.0

Coefficient of Utilization



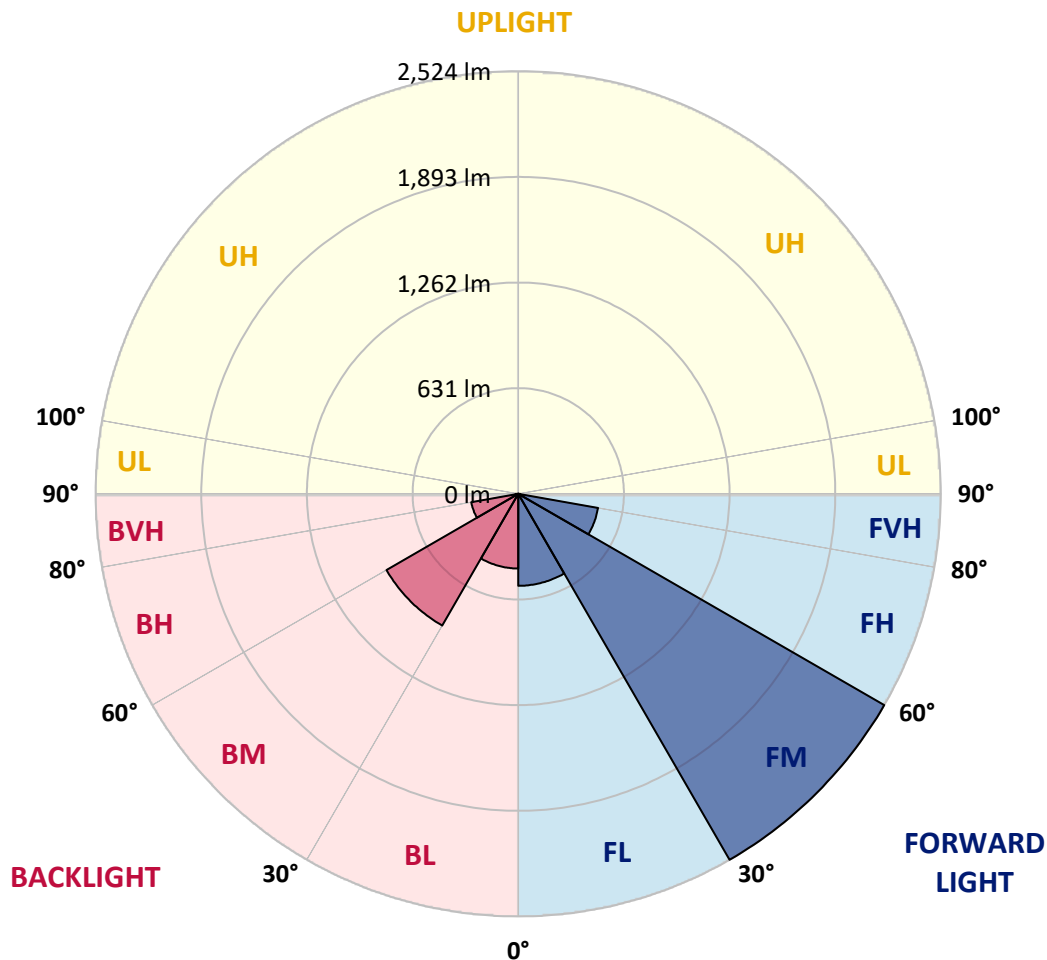
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.3	10.5			
FM (30°-60°)	2523.8	48.3			
FH (60°-80°)	484.0	9.3			G0/660
FVH (80°-90°)	12.1	0.2			G1/100
BL (0°-30°)	445.8	8.5	B1/500		
BM (30°-60°)	908.6	17.4	B1/1000		
BH (60°-80°)	284.9	5.5	B1/500		G1/500
BVH (80°-90°)	16.4	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°	47°	55°	65°	75°	85°
0°	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5
2.5°	1045.5	1043.5	1042.2	1052.9	1048.9	1049.5	1045.5	1049.5	1052.2	1046.2	1054.9
5°	1043.5	1049.5	1044.2	1047.5	1056.2	1053.5	1056.2	1064.2	1062.2	1060.2	1057.5
7.5°	1062.2	1062.8	1066.8	1068.2	1070.8	1068.2	1072.2	1079.5	1077.5	1066.2	1067.5
10°	1088.8	1090.2	1090.9	1098.2	1102.9	1103.5	1098.9	1092.2	1091.5	1106.8	1096.2
12.5°	1119.5	1116.2	1124.2	1126.8	1132.1	1138.2	1144.2	1130.2	1138.8	1139.5	1126.8
15°	1164.2	1167.5	1158.1	1158.1	1160.2	1160.8	1177.5	1170.8	1169.5	1162.1	1167.5
17.5°	1230.8	1208.2	1207.5	1198.1	1196.8	1202.1	1208.2	1213.5	1231.4	1216.8	1188.1
20°	1279.4	1284.7	1265.4	1254.1	1256.1	1268.1	1262.1	1286.1	1298.8	1274.8	1246.8
22.5°	1365.4	1347.4	1352.1	1326.7	1328.8	1341.4	1340.7	1365.4	1372.8	1334.8	1294.1
25°	1423.3	1418.7	1422.7	1402.7	1405.4	1415.4	1431.4	1472.0	1460.0	1418.0	1324.1
27.5°	1508.0	1498.7	1495.4	1488.0	1485.4	1512.0	1530.7	1574.0	1565.3	1504.0	1377.4
30°	1594.7	1588.6	1592.0	1562.0	1572.7	1629.3	1634.6	1693.9	1689.9	1582.0	1436.7
32.5°	1654.6	1657.9	1664.0	1647.3	1694.6	1739.9	1757.9	1825.2	1828.5	1715.9	1551.3
35°	1751.3	1739.9	1743.2	1762.5	1784.5	1867.1	1896.5	1941.1	1969.2	1856.5	1661.3
37.5°	1811.9	1823.8	1809.9	1840.5	1897.8	1997.1	2023.7	2069.8	2099.1	1995.1	1811.2
40°	1906.5	1887.2	1897.1	1919.1	1977.8	2107.1	2099.8	2147.1	2156.4	2113.1	1951.2
42.5°	2008.5	1999.1	1985.1	2035.1	2084.4	2178.4	2193.0	2171.0	2218.3	2228.3	2151.1
45°	2130.4	2141.7	2143.7	2145.0	2188.3	2270.3	2250.3	2231.0	2285.7	2358.3	2275.0
47.5°	2243.7	2207.7	2233.7	2269.7	2331.0	2331.6	2355.0	2309.0	2366.9	2431.6	2387.0
50°	2281.7	2264.4	2299.0	2366.9	2461.6	2471.5	2474.2	2408.9	2438.9	2490.3	2425.6
52.5°	2267.0	2261.0	2349.6	2454.9	2593.5	2644.2	2657.5	2576.9	2593.5	2570.2	2510.9
55°	2197.0	2215.0	2304.3	2518.9	2731.5	2888.0	2913.4	2811.4	2705.5	2723.4	2658.1
56°	2101.1	2069.8	2169.7	2446.2	2725.5	2967.3	2988.0	2860.8	2788.7	2765.5	2656.8
57.5°	1782.6	1741.9	1873.2	2201.0	2574.2	2937.3	2952.7	2881.4	2774.8	2727.4	2462.9
60°	1043.5	1063.5	1230.1	1518.0	1985.8	2408.3	2459.6	2511.6	2440.2	2228.3	1833.2
62.5°	503.8	491.1	610.4	870.3	1210.1	1537.3	1522.0	1667.9	1747.9	1583.3	1157.5
65°	263.9	262.5	333.2	475.1	665.0	807.7	821.6	900.3	1010.2	815.7	587.7
67.5°	193.9	199.3	234.6	333.9	427.8	436.4	434.5	473.8	484.4	409.8	361.2
70°	151.9	154.6	180.6	253.8	318.5	285.2	279.2	283.8	315.2	328.5	312.5
72.5°	109.9	112.6	134.6	171.2	199.3	194.6	198.6	224.6	263.2	277.2	260.6
75°	73.3	75.3	87.3	104.6	117.9	127.3	134.6	164.6	200.6	208.6	200.6
77.5°	50.7	52.6	60.6	74.0	75.3	81.3	83.9	98.0	120.0	130.0	124.6
80°	28.7	28.7	32.7	38.0	46.7	54.7	56.0	67.3	77.3	83.9	85.3
82.5°	13.3	14.0	17.3	23.3	30.6	38.0	39.3	46.7	53.9	60.6	62.6
85°	6.7	7.4	10.0	14.0	18.6	22.6	22.0	22.6	24.0	22.6	23.3
87.5°	2.0	2.0	2.7	3.4	2.7	3.4	3.4	4.0	4.7	5.3	6.0
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°	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5	1049.5
2.5°	1055.6	1057.5	1044.2	1056.9	1052.2	1051.6	1060.9	1059.6	1062.8	1061.5	1053.5
5°	1056.2	1051.6	1065.5	1052.9	1058.9	1071.5	1062.8	1082.9	1072.9	1079.5	1064.9
7.5°	1076.9	1078.2	1075.5	1080.9	1078.2	1084.2	1079.5	1084.2	1076.2	1076.9	1090.2
10°	1094.9	1090.9	1095.5	1088.8	1093.5	1091.5	1080.9	1077.5	1080.2	1076.9	1085.6
12.5°	1128.1	1120.9	1117.5	1109.5	1104.2	1084.2	1067.5	1058.2	1070.8	1072.9	1068.9
15°	1162.1	1162.8	1147.5	1129.5	1096.2	1066.2	1070.2	1073.5	1073.5	1078.8	1068.9
17.5°	1183.5	1183.5	1169.5	1133.5	1099.5	1082.2	1078.2	1067.5	1058.2	1056.9	1056.2
20°	1220.8	1209.5	1177.5	1132.8	1098.2	1090.2	1060.2	1034.9	1015.6	1008.9	1008.2
22.5°	1263.4	1234.8	1190.2	1134.2	1096.2	1084.8	1028.9	990.9	956.3	941.6	943.6
25°	1302.8	1256.8	1197.4	1128.1	1088.8	1034.2	971.5	918.9	882.9	870.9	865.0
27.5°	1330.1	1280.1	1197.4	1133.5	1061.5	977.6	913.6	846.3	814.9	807.0	808.3
30°	1366.7	1309.4	1218.1	1122.2	1006.9	904.3	827.6	783.6	765.0	758.3	763.0
32.5°	1452.7	1386.1	1246.8	1094.9	942.3	831.0	769.0	744.3	717.0	703.7	699.1
35°	1546.0	1458.7	1274.8	1048.9	869.6	764.4	725.7	703.1	670.4	655.7	658.3
37.5°	1677.9	1552.0	1276.8	972.9	791.0	727.0	691.7	656.4	629.7	607.1	600.4
40°	1855.9	1679.2	1272.1	892.9	727.6	683.0	657.0	613.1	583.1	567.0	570.4
42.5°	2012.5	1828.5	1252.8	802.3	670.4	653.0	623.7	580.4	551.1	534.4	533.1
45°	2144.4	1938.5	1216.2	725.0	622.4	619.7	585.8	552.4	529.1	513.8	520.5
47.5°	2266.3	2027.1	1160.8	647.7	578.4	583.7	551.1	530.4	515.8	501.7	501.1
50°	2310.3	2025.8	1112.2	583.7	543.1	540.4	539.1	517.1	501.7	489.8	495.1
52.5°	2383.6	2048.4	1059.6	539.8	511.1	511.8	516.5	500.4	483.1	475.8	482.5
55°	2488.9	2051.8	943.6	488.4	484.4	489.1	489.1	478.5	463.8	457.8	454.5
56°	2402.9	1952.5	846.3	475.1	471.1	471.1	483.8	471.8	453.8	449.1	445.1
57.5°	2216.4	1710.5	708.4	459.2	453.1	462.4	469.1	456.5	439.8	433.2	437.1
60°	1528.7	1157.5	532.4	424.5	424.5	439.8	445.1	426.5	419.1	418.5	413.2
62.5°	892.3	674.4	416.5	393.1	394.5	407.2	411.2	400.5	391.2	402.5	407.8
65°	473.1	402.5	357.2	359.9	360.5	370.5	387.8	387.2	386.5	389.9	390.5
67.5°	342.5	334.5	324.6	321.9	323.2	330.5	347.8	361.2	360.5	352.5	346.5
70°	305.2	293.9	287.9	288.5	283.2	291.9	305.8	314.5	299.2	289.9	285.9
72.5°	253.8	250.6	246.6	247.2	236.5	234.6	218.5	218.5	214.5	211.9	216.6
75°	193.9	192.6	194.6	191.3	179.9	168.0	158.6	149.9	136.6	131.3	128.6
77.5°	122.6	126.6	131.3	123.9	119.3	110.6	101.3	92.6	82.0	76.0	76.0
80°	83.3	86.6	90.0	88.6	83.3	75.3	68.0	58.6	51.3	46.7	46.0
82.5°	63.3	66.0	70.6	65.3	60.0	53.3	47.3	40.6	34.0	28.7	28.7
85°	22.6	26.0	28.7	31.3	33.4	34.0	29.3	24.0	19.3	15.3	14.6
87.5°	6.0	6.7	7.4	6.7	6.7	6.7	7.4	6.7	6.0	4.7	4.7
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)