

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: P650707

Luminaire Tested: **GALN-SA1C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650707
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-SA1C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA 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: 5100.7 lumens
Efficiency: N/A
Efficacy: 89.5 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

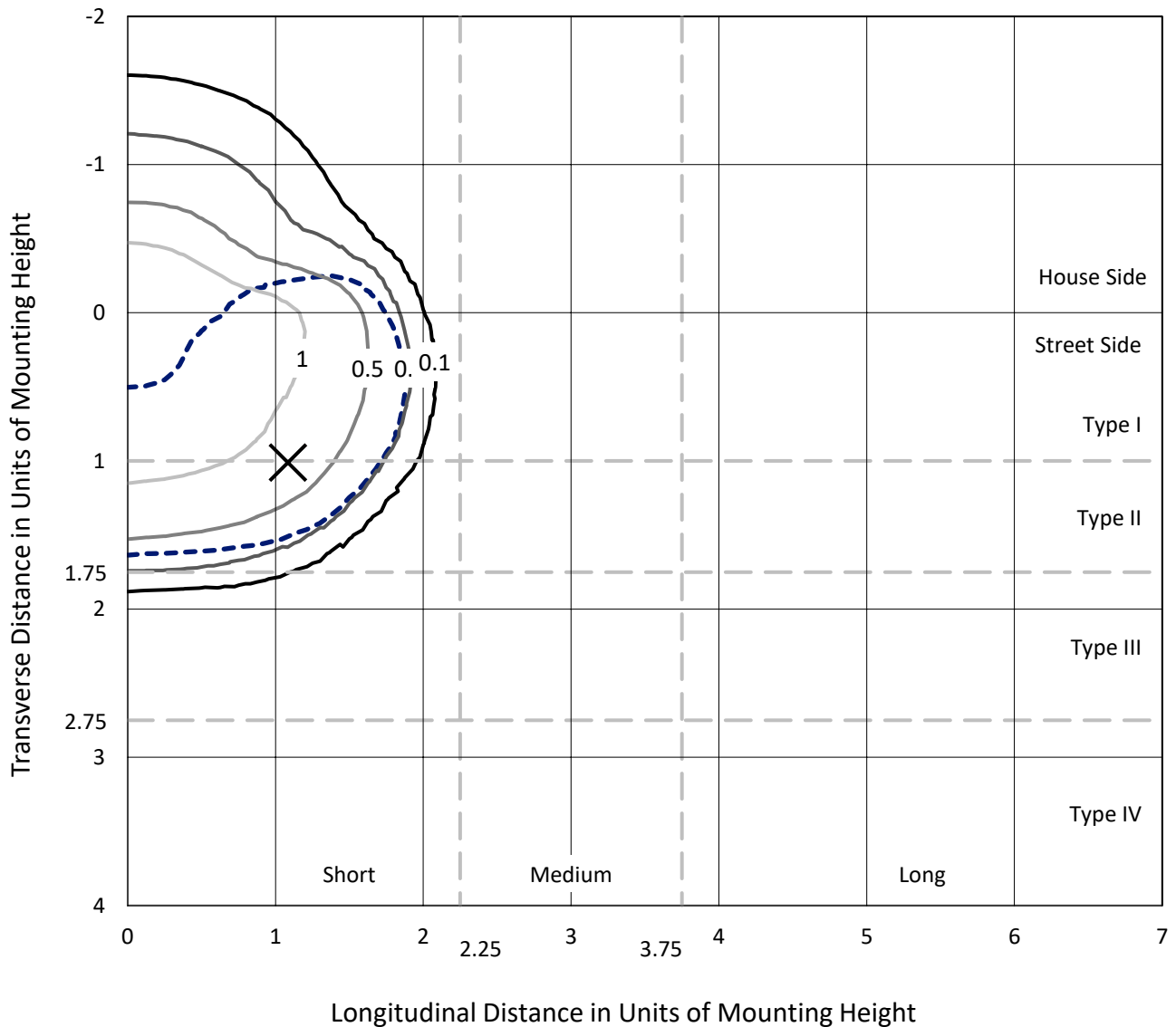
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

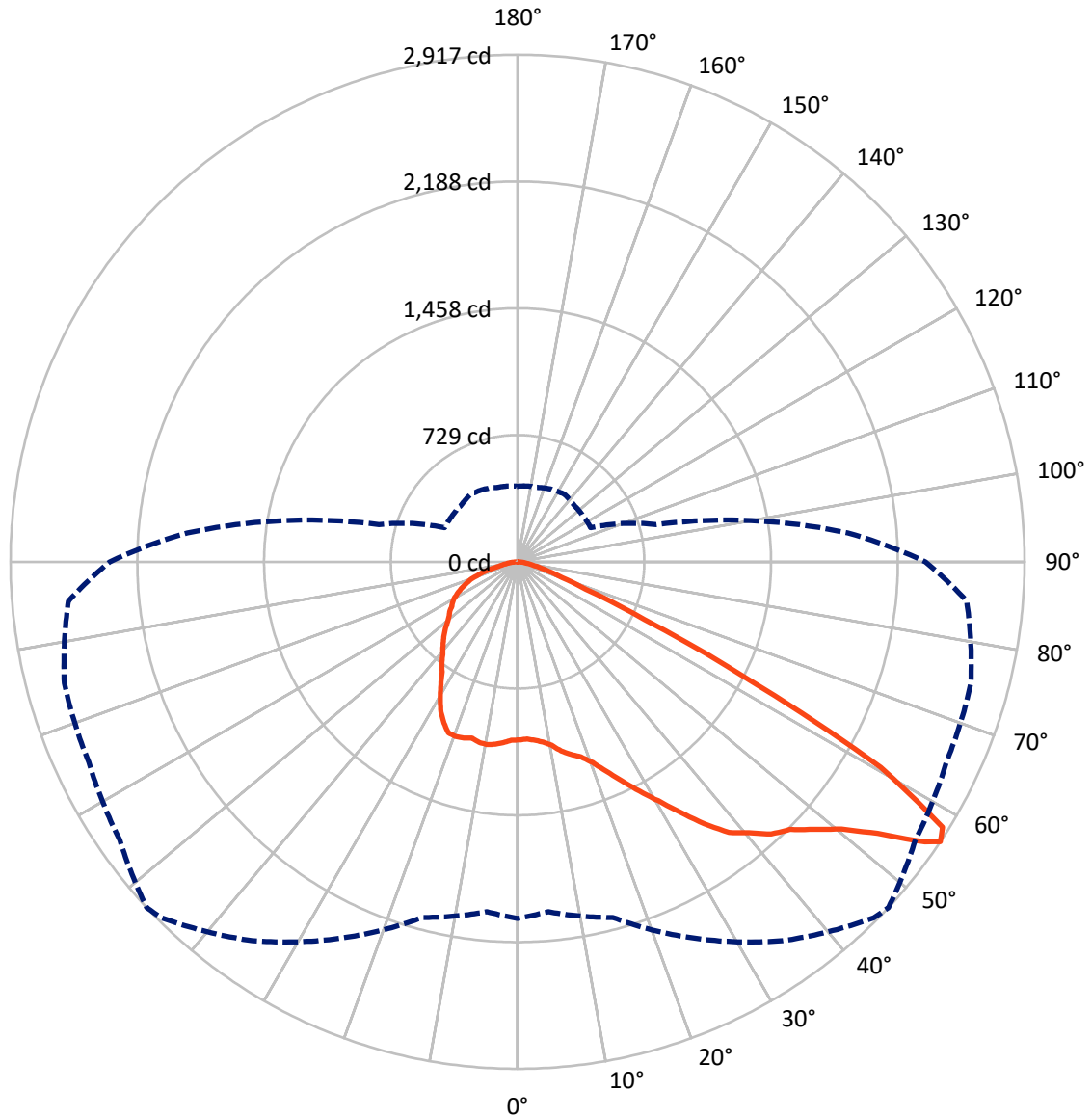
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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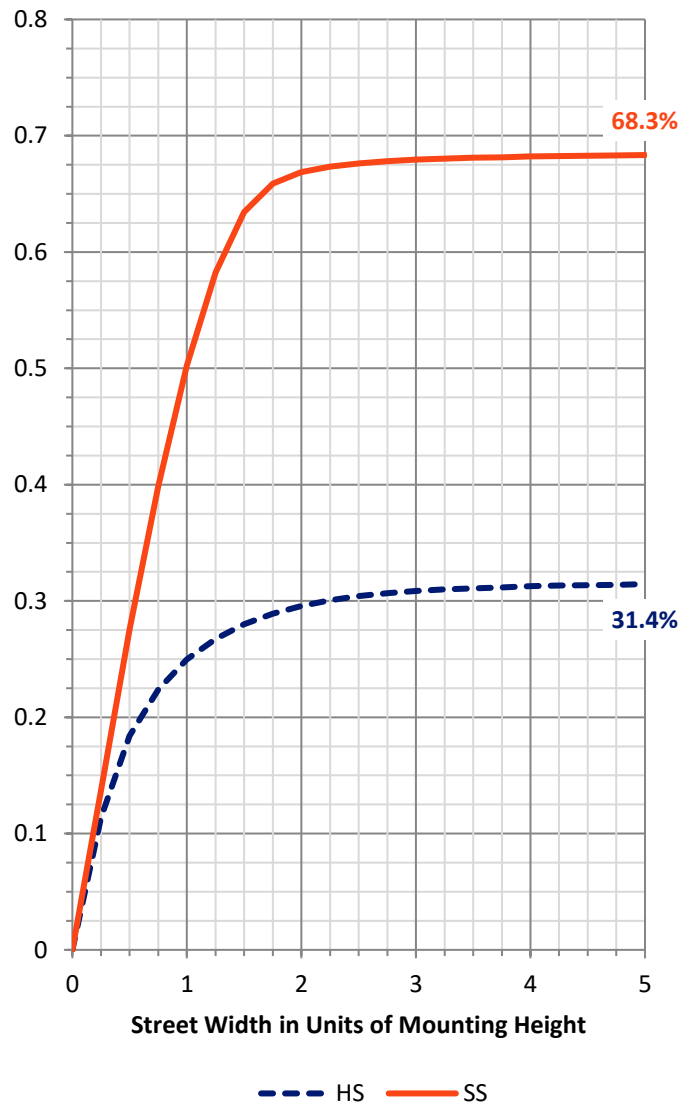
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1616.3	0.0	1616.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3484.3	0.0	3484.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	5100.7	0.0	5100.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	2.0
10°-20°	314.9	6.2
20°-30°	556.7	10.9
30°-40°	836.1	16.4
40°-50°	1147.5	22.5
50°-60°	1367.1	26.8
60°-70°	585.0	11.5
70°-80°	165.6	3.2
80°-90°	27.9	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°	5100.7	100.0
0°-180°	5100.7	100.0

Coefficient of Utilization



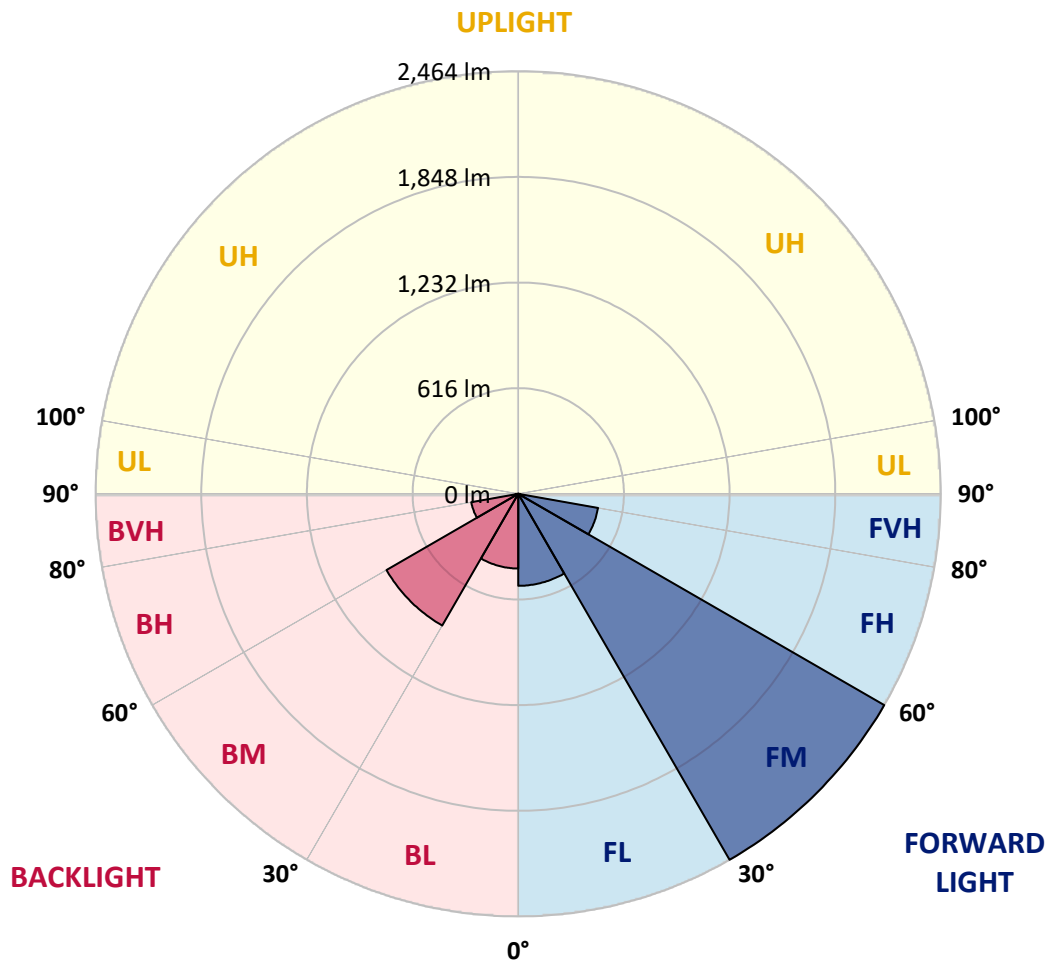
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.3	10.5			
FM (30°-60°)	2463.7	48.3			
FH (60°-80°)	472.5	9.3			G0/660
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	435.2	8.5	B1/500		
BM (30°-60°)	887.0	17.4	B1/1000		
BH (60°-80°)	278.1	5.5	B1/500		G1/500
BVH (80°-90°)	16.0	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°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1020.6	1018.7	1017.4	1027.8	1023.9	1024.6	1020.6	1024.6	1027.2	1021.3	1029.8
5°	1018.7	1024.6	1019.4	1022.7	1031.1	1028.5	1031.1	1038.9	1037.0	1035.0	1032.4
7.5°	1037.0	1037.5	1041.5	1042.8	1045.4	1042.8	1046.7	1053.9	1051.9	1040.8	1042.2
10°	1062.9	1064.3	1064.9	1072.0	1076.6	1077.2	1072.7	1066.2	1065.5	1080.5	1070.1
12.5°	1092.9	1089.6	1097.4	1100.0	1105.2	1111.1	1116.9	1103.3	1111.7	1112.4	1100.0
15°	1136.4	1139.7	1130.6	1130.6	1132.6	1133.2	1149.5	1143.0	1141.7	1134.5	1139.7
17.5°	1201.5	1179.4	1178.7	1169.7	1168.3	1173.5	1179.4	1184.6	1202.1	1187.8	1159.9
20°	1249.0	1254.2	1235.3	1224.2	1226.3	1238.0	1232.1	1255.5	1267.9	1244.4	1217.1
22.5°	1332.9	1315.3	1319.9	1295.2	1297.2	1309.5	1308.8	1332.9	1340.0	1303.0	1263.4
25°	1389.5	1385.0	1388.8	1369.3	1371.9	1381.7	1397.3	1437.0	1425.3	1384.3	1292.6
27.5°	1472.1	1463.0	1459.8	1452.6	1450.0	1476.0	1494.2	1536.5	1528.1	1468.2	1344.6
30°	1556.7	1550.8	1554.1	1524.8	1535.2	1590.5	1595.7	1653.7	1649.7	1544.3	1402.5
32.5°	1615.2	1618.5	1624.3	1608.1	1654.2	1698.5	1716.1	1781.7	1785.0	1675.1	1514.4
35°	1709.6	1698.5	1701.8	1720.6	1742.1	1822.8	1851.4	1894.9	1922.3	1812.4	1621.8
37.5°	1768.8	1780.5	1766.8	1796.7	1852.6	1949.6	1975.6	2020.5	2049.1	1947.7	1768.1
40°	1861.1	1842.3	1852.1	1873.5	1930.8	2056.9	2049.8	2095.9	2105.1	2062.8	1904.7
42.5°	1960.7	1951.5	1937.9	1986.7	2034.8	2126.6	2140.8	2119.4	2165.6	2175.3	2099.9
45°	2079.7	2090.8	2092.7	2094.0	2136.3	2216.3	2196.8	2177.9	2231.3	2302.2	2220.9
47.5°	2190.3	2155.1	2180.5	2215.7	2275.5	2276.2	2299.0	2254.0	2310.6	2373.7	2330.2
50°	2227.4	2210.5	2244.3	2310.6	2403.0	2412.7	2415.4	2351.6	2380.9	2431.0	2367.9
52.5°	2213.1	2207.2	2293.7	2396.5	2531.8	2581.3	2594.2	2515.6	2531.8	2509.0	2451.2
55°	2144.8	2162.3	2249.5	2459.0	2666.5	2819.4	2844.1	2744.5	2641.1	2658.7	2594.9
56°	2051.1	2020.5	2118.1	2388.0	2660.6	2896.7	2916.9	2792.7	2722.4	2699.7	2593.6
57.5°	1740.1	1700.4	1828.6	2148.7	2513.0	2867.5	2882.4	2812.8	2708.8	2662.6	2404.3
60°	1018.7	1038.2	1200.9	1481.8	1938.6	2351.0	2401.1	2451.8	2382.2	2175.3	1789.6
62.5°	491.8	479.5	595.8	849.6	1181.4	1500.8	1485.8	1628.3	1706.3	1545.7	1130.0
65°	257.6	256.3	325.3	463.8	649.3	788.4	802.1	878.8	986.2	796.3	573.7
67.5°	189.3	194.5	229.0	325.9	417.6	426.1	424.1	462.6	472.9	400.1	352.5
70°	148.4	151.0	176.3	247.8	310.9	278.5	272.6	277.1	307.7	320.7	305.1
72.5°	107.3	109.9	131.4	167.2	194.5	190.0	193.9	219.2	256.9	270.6	254.3
75°	71.6	73.5	85.2	102.1	115.1	124.2	131.4	160.7	195.8	203.6	195.8
77.5°	49.5	51.4	59.2	72.2	73.5	79.4	82.0	95.6	117.1	126.8	121.6
80°	28.0	28.0	31.9	37.1	45.5	53.3	54.7	65.7	75.4	82.0	83.3
82.5°	13.0	13.6	16.9	22.8	29.9	37.1	38.3	45.5	52.7	59.2	61.1
85°	6.5	7.1	9.8	13.6	18.2	22.1	21.4	22.1	23.4	22.1	22.8
87.5°	1.9	1.9	2.6	3.3	2.6	3.3	3.3	3.9	4.5	5.2	5.9
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°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1030.4	1032.4	1019.4	1031.7	1027.2	1026.5	1035.6	1034.3	1037.5	1036.3	1028.5
5°	1031.1	1026.5	1040.1	1027.8	1033.7	1046.0	1037.5	1057.1	1047.3	1053.9	1039.6
7.5°	1051.2	1052.5	1049.9	1055.1	1052.5	1058.4	1053.9	1058.4	1050.6	1051.2	1064.3
10°	1068.8	1064.9	1069.4	1062.9	1067.5	1065.5	1055.1	1051.9	1054.5	1051.2	1059.7
12.5°	1101.3	1094.1	1090.9	1083.1	1077.9	1058.4	1042.2	1033.0	1045.4	1047.3	1043.4
15°	1134.5	1135.2	1120.2	1102.6	1070.1	1040.8	1044.8	1048.0	1048.0	1053.2	1043.4
17.5°	1155.3	1155.3	1141.7	1106.5	1073.4	1056.5	1052.5	1042.2	1033.0	1031.7	1031.1
20°	1191.8	1180.7	1149.5	1105.9	1072.0	1064.3	1035.0	1010.3	991.4	984.9	984.2
22.5°	1233.4	1205.4	1161.8	1107.2	1070.1	1059.1	1004.4	967.3	933.5	919.2	921.1
25°	1271.8	1226.9	1169.0	1101.3	1062.9	1009.6	948.5	897.1	861.9	850.3	844.4
27.5°	1298.4	1249.6	1169.0	1106.5	1036.3	954.3	891.9	826.2	795.6	787.8	789.1
30°	1334.2	1278.2	1189.2	1095.5	983.0	882.7	807.9	765.0	746.8	740.3	744.9
32.5°	1418.1	1353.1	1217.1	1068.8	919.8	811.2	750.7	726.6	700.0	686.9	682.4
35°	1509.2	1424.0	1244.4	1023.9	848.9	746.1	708.4	686.3	654.4	640.1	642.7
37.5°	1638.0	1515.1	1246.4	949.7	772.2	709.7	675.2	640.8	614.8	592.7	586.1
40°	1811.7	1639.3	1241.8	871.7	710.4	666.7	641.4	598.5	569.2	553.6	556.8
42.5°	1964.6	1785.0	1223.0	783.2	654.4	637.5	608.9	566.6	538.0	521.8	520.4
45°	2093.3	1892.3	1187.2	707.8	607.6	605.0	571.8	539.2	516.5	501.6	508.0
47.5°	2212.4	1978.9	1133.2	632.3	564.6	569.9	538.0	517.8	503.5	489.9	489.2
50°	2255.4	1977.6	1085.7	569.9	530.2	527.6	526.3	504.8	489.9	478.1	483.3
52.5°	2326.9	1999.7	1034.3	526.9	499.0	499.6	504.2	488.5	471.6	464.5	471.0
55°	2429.7	2002.9	921.1	476.8	472.9	477.5	477.5	467.1	452.8	446.9	443.6
56°	2345.8	1906.0	826.2	463.8	459.9	459.9	472.3	460.5	443.0	438.4	434.5
57.5°	2163.6	1669.9	691.5	448.2	442.4	451.4	457.9	445.6	429.3	422.9	426.7
60°	1492.3	1130.0	519.7	414.4	414.4	429.3	434.5	416.3	409.1	408.6	403.3
62.5°	871.0	658.3	406.5	383.8	385.1	397.5	401.4	391.0	381.8	392.9	398.1
65°	461.9	392.9	348.7	351.3	352.0	361.7	378.6	377.9	377.3	380.6	381.2
67.5°	334.4	326.6	316.8	314.2	315.5	322.7	339.6	352.5	352.0	344.1	338.3
70°	298.0	286.9	281.1	281.7	276.4	284.9	298.6	307.0	292.1	283.0	279.0
72.5°	247.8	244.6	240.7	241.4	230.9	229.0	213.4	213.4	209.5	206.9	211.4
75°	189.3	188.0	190.0	186.7	175.6	163.9	154.8	146.3	133.4	128.2	125.6
77.5°	119.7	123.6	128.2	121.0	116.5	108.0	98.9	90.4	80.0	74.2	74.2
80°	81.3	84.6	87.8	86.5	81.3	73.5	66.4	57.3	50.1	45.5	44.9
82.5°	61.8	64.4	69.0	63.7	58.5	52.1	46.2	39.7	33.1	28.0	28.0
85°	22.1	25.4	28.0	30.6	32.5	33.1	28.6	23.4	18.8	15.0	14.3
87.5°	5.9	6.5	7.1	6.5	6.5	6.5	7.1	6.5	5.9	4.5	4.5
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)