

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: P652171

Luminaire Tested: **GALN-SA1B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4799.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

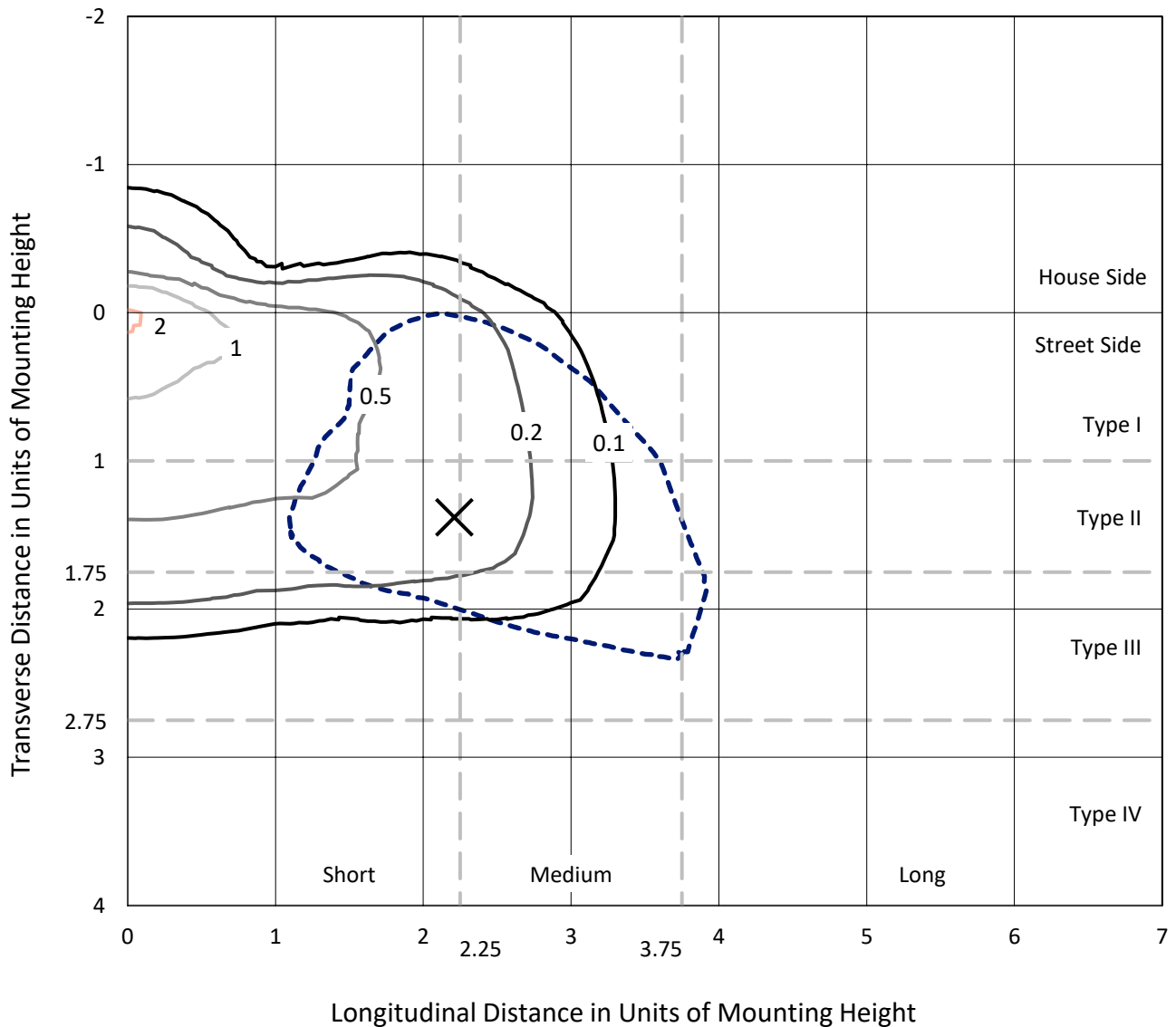
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652171
 CATALOG NUMBER: GALN-SA1B-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

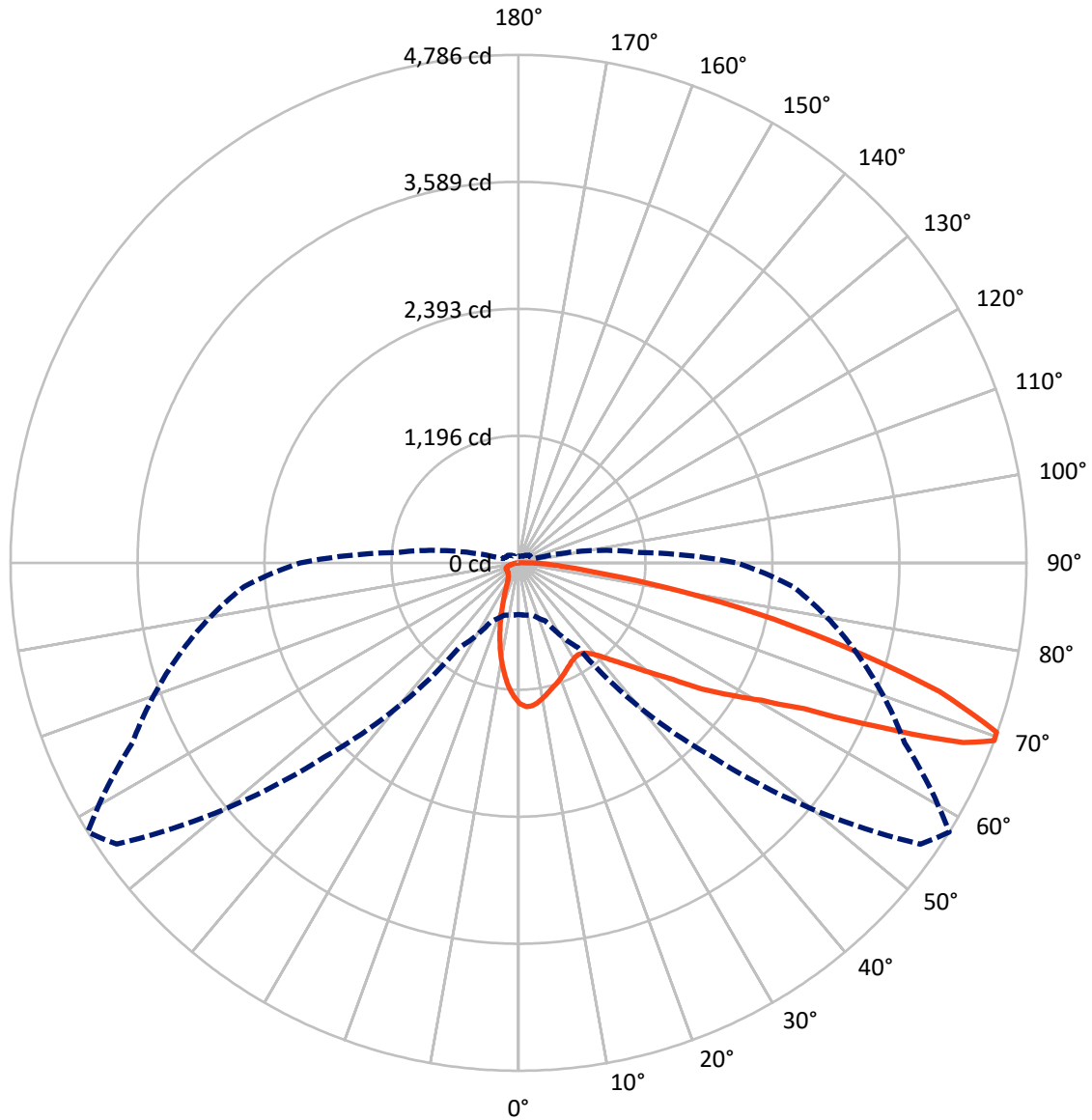
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P652171
CATALOG NUMBER: GALN-SA1B-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P652171
 CATALOG NUMBER: GALN-SA1B-840-U-SL3

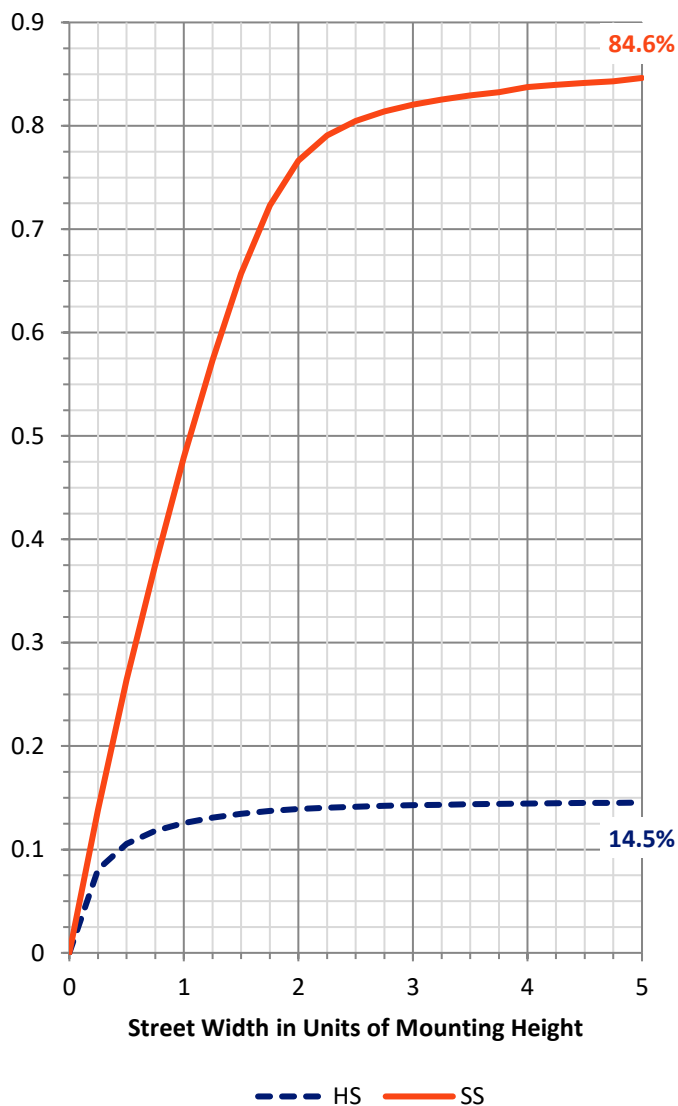
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	703.4	0.0	703.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4096.2	0.0	4096.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	4799.6	0.0	4799.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	2.3
10°-20°	247.3	5.2
20°-30°	319.6	6.7
30°-40°	415.0	8.6
40°-50°	603.4	12.6
50°-60°	962.8	20.1
60°-70°	1286.2	26.8
70°-80°	741.5	15.4
80°-90°	111.1	2.3
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°	4799.6	100.0
0°-180°	4799.6	100.0

Coefficient of Utilization

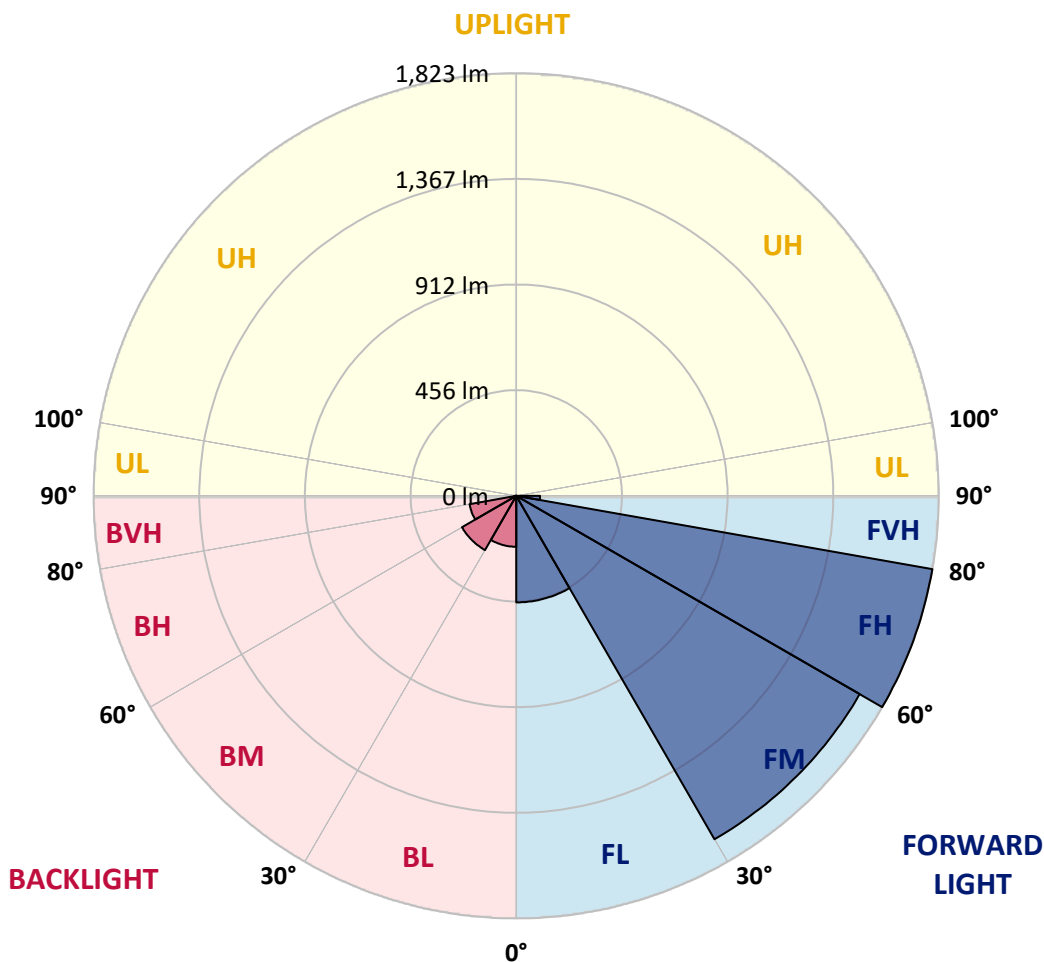


REPORT NUMBER: P652171
 CATALOG NUMBER: GALN-SA1B-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.7	9.6			
FM (30°-60°)	1710.8	35.6			
FH (60°-80°)	1823.2	38.0			G2/5000
FVH (80°-90°)	102.6	2.1			G2/225
BL (0°-30°)	219.8	4.6	B1/500		
BM (30°-60°)	270.5	5.6	B1/1000		
BH (60°-80°)	204.5	4.3	B1/500		G1/500
BVH (80°-90°)	8.5	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





REPORT NUMBER: P652171

CATALOG NUMBER: GALN-SA1B-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1375.5	1379.3	1378.2	1376.9	1374.8	1368.9	1359.2	1357.6	1351.5	1338.4	1322.1
5°	1354.4	1357.6	1357.9	1359.8	1362.4	1361.4	1354.4	1353.6	1344.5	1326.8	1299.6
7.5°	1281.9	1286.1	1295.6	1306.0	1315.3	1324.2	1326.3	1327.7	1322.1	1301.7	1265.3
10°	1200.3	1204.6	1208.9	1224.3	1247.4	1269.3	1287.5	1289.9	1291.3	1272.5	1228.1
12.5°	1109.8	1118.6	1127.7	1150.7	1181.5	1216.0	1248.1	1253.3	1262.3	1248.1	1196.0
15°	1032.9	1042.1	1055.2	1075.8	1113.0	1162.8	1208.0	1216.3	1234.3	1227.0	1166.0
17.5°	979.7	982.9	992.0	1015.6	1055.7	1108.2	1168.7	1185.2	1213.9	1212.0	1140.3
20°	937.6	941.7	947.3	961.8	1003.5	1058.9	1132.0	1153.4	1192.2	1198.7	1114.8
22.5°	920.0	922.9	922.2	929.9	958.2	1013.9	1094.8	1120.2	1172.9	1189.5	1091.3
25°	921.1	923.8	919.7	917.9	934.7	974.3	1056.0	1088.3	1157.4	1183.4	1069.9
27.5°	939.0	940.9	933.3	925.9	927.2	949.7	1023.8	1059.7	1144.3	1186.1	1051.9
30°	963.1	966.6	961.8	952.7	942.8	943.9	1003.2	1038.6	1138.1	1195.4	1043.4
32.5°	994.1	997.3	995.2	988.0	975.1	960.9	998.2	1030.8	1138.7	1214.4	1041.5
35°	1026.8	1033.3	1036.7	1036.2	1025.8	1001.1	1018.2	1045.3	1151.5	1246.3	1052.5
37.5°	1063.7	1069.1	1084.0	1093.7	1084.0	1055.5	1063.4	1082.2	1179.9	1292.4	1076.6
40°	1099.6	1107.6	1129.5	1159.6	1155.8	1130.6	1132.5	1144.9	1230.0	1360.8	1123.7
42.5°	1137.1	1146.7	1185.0	1229.5	1238.3	1218.7	1223.8	1234.8	1301.2	1455.9	1204.6
45°	1185.2	1196.7	1243.9	1299.3	1334.1	1322.1	1336.5	1341.8	1396.5	1579.6	1311.0
47.5°	1247.4	1260.7	1318.9	1387.9	1437.1	1448.1	1473.3	1470.1	1514.5	1726.0	1449.2
50°	1352.0	1359.5	1414.4	1484.8	1552.5	1602.0	1629.4	1634.4	1660.9	1868.4	1603.6
52.5°	1476.5	1483.2	1522.8	1584.4	1669.2	1774.2	1841.6	1825.0	1831.4	2041.8	1784.3
55°	1616.5	1627.8	1652.9	1693.9	1803.9	1958.3	2093.8	2097.8	2026.6	2207.8	1957.5
57.5°	1724.9	1743.9	1787.0	1845.3	1984.8	2163.1	2345.1	2347.7	2256.7	2385.0	2148.6
60°	1670.3	1692.8	1791.2	1933.4	2222.3	2520.4	2645.4	2630.1	2480.8	2586.8	2381.8
62.5°	1434.7	1438.8	1581.9	1804.1	2295.3	2998.5	3092.4	3027.9	2779.8	2842.7	2618.6
65°	928.5	954.8	1068.3	1379.6	2055.2	3263.8	3875.7	3726.6	3199.0	3133.1	2817.0
67.5°	586.2	579.5	626.6	787.8	1413.6	3030.0	4544.0	4520.5	3747.2	3316.5	2769.7
69°	486.1	493.6	509.6	603.8	972.7	2587.1	4623.0	4785.7	4013.0	3302.0	2597.5
70°	440.9	444.3	461.2	535.4	750.6	2166.8	4493.5	4778.5	4117.4	3241.6	2472.8
72.5°	349.9	349.6	378.4	445.4	561.0	1236.9	3689.6	4148.7	4000.6	2959.9	2043.1
75°	265.8	270.0	301.9	376.9	516.9	675.9	2574.7	3195.0	3195.2	2337.9	1275.0
77.5°	191.7	194.4	231.5	316.4	486.9	547.9	1715.0	2291.6	2154.2	1071.3	400.7
80°	125.6	127.2	155.5	250.5	439.0	516.9	1016.9	1402.6	1016.1	284.3	132.5
82.5°	68.8	76.8	95.0	162.2	352.3	477.5	618.1	709.9	381.1	126.6	69.0
85°	34.6	36.7	53.6	94.8	230.2	395.1	430.4	407.1	196.7	62.9	35.8
87.5°	10.2	12.9	22.2	36.7	93.4	205.9	239.6	215.0	75.8	22.8	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652171
 CATALOG NUMBER: GALN-SA1B-840-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1315.3	1310.5	1289.1	1269.8	1252.2	1233.4	1217.7	1203.7	1205.1	1205.3	1191.1
5°	1285.4	1274.4	1233.7	1195.7	1163.6	1122.9	1088.1	1065.6	1054.4	1039.4	1044.7
7.5°	1244.7	1223.6	1167.1	1103.9	1044.7	992.0	934.7	895.3	870.2	845.9	849.1
10°	1202.6	1168.7	1086.5	1003.0	926.4	842.1	769.0	706.4	659.8	642.4	630.9
12.5°	1159.6	1114.8	1010.5	899.4	793.7	692.7	589.1	521.9	470.5	443.3	446.7
15°	1120.2	1065.9	931.2	795.8	658.5	538.3	435.0	371.0	335.1	327.7	331.9
17.5°	1083.8	1012.6	857.1	695.2	534.8	403.7	326.8	290.7	276.3	272.2	272.0
20°	1046.4	967.4	773.8	587.5	416.8	312.9	268.2	251.4	248.7	250.3	250.5
22.5°	1008.4	911.4	688.2	480.7	331.9	255.9	234.5	229.9	232.0	235.8	236.3
25°	973.3	862.2	605.8	387.0	265.0	224.9	214.4	214.4	219.2	224.9	225.1
27.5°	944.4	814.5	523.6	307.3	221.9	202.3	198.9	200.7	207.5	211.8	212.0
30°	920.6	770.1	446.0	246.2	195.1	184.4	183.6	186.9	191.7	195.7	196.0
32.5°	902.6	731.0	373.4	206.9	176.7	170.8	170.5	172.9	175.6	176.7	177.7
35°	895.7	698.6	307.0	182.0	164.3	160.6	160.6	160.4	161.4	162.0	162.5
37.5°	901.3	673.7	255.7	165.9	155.2	152.6	151.0	149.4	148.9	148.9	149.1
40°	925.1	660.6	217.3	155.5	148.9	144.8	141.9	140.0	138.1	138.7	139.2
42.5°	975.6	663.0	191.4	148.5	143.2	137.6	133.3	131.2	129.9	131.4	131.2
45°	1056.2	687.1	174.8	143.7	137.6	130.4	126.3	124.2	124.2	126.6	127.4
47.5°	1168.9	733.2	165.9	140.0	133.3	124.7	120.7	119.1	119.7	123.6	124.0
50°	1306.5	813.2	164.3	138.1	131.2	120.7	116.1	114.5	115.9	120.2	120.7
52.5°	1458.3	916.3	172.2	138.4	129.3	118.3	112.4	110.0	111.3	114.8	115.9
55°	1638.2	1045.3	192.2	139.4	126.6	117.0	109.8	104.4	106.0	108.4	108.7
57.5°	1821.8	1208.0	227.5	139.7	124.5	114.5	105.2	98.2	98.2	99.8	100.7
60°	2046.1	1385.2	274.1	140.0	124.7	111.1	99.1	91.2	90.2	91.0	91.2
62.5°	2268.8	1533.5	281.8	139.2	127.4	107.6	92.3	84.4	82.4	82.2	81.7
65°	2367.1	1505.9	231.0	135.5	130.4	105.5	87.0	77.6	74.4	73.3	73.3
67.5°	2207.0	1273.9	173.8	130.4	128.5	103.4	81.9	72.0	68.3	66.1	66.1
69°	2056.6	1133.1	156.1	126.9	123.6	99.8	78.7	69.0	64.5	62.1	61.3
70°	1940.4	1036.2	148.5	124.0	119.1	95.8	76.3	66.9	61.8	59.1	58.6
72.5°	1548.5	812.9	130.1	112.7	101.4	80.6	67.7	60.2	55.4	52.5	51.6
75°	892.4	440.6	107.9	98.0	81.7	62.7	57.3	52.5	48.7	46.0	45.2
77.5°	274.7	170.2	78.1	77.4	60.0	48.4	45.8	43.9	41.2	38.3	37.8
80°	115.6	86.7	53.0	52.2	39.9	33.7	32.9	32.6	31.6	29.2	28.3
82.5°	63.4	48.9	36.9	32.1	24.1	19.5	20.4	20.6	19.8	17.4	15.8
85°	31.0	26.7	17.9	14.5	10.9	7.0	6.7	8.0	7.5	5.4	5.9
87.5°	6.1	7.5	4.8	2.1	1.1	0.0	0.0	0.0	0.0	0.0	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)