

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: P647714

Luminaire Tested: **GALN-SA1A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3064.7 lumens
Efficiency: N/A
Efficacy: 92.9 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

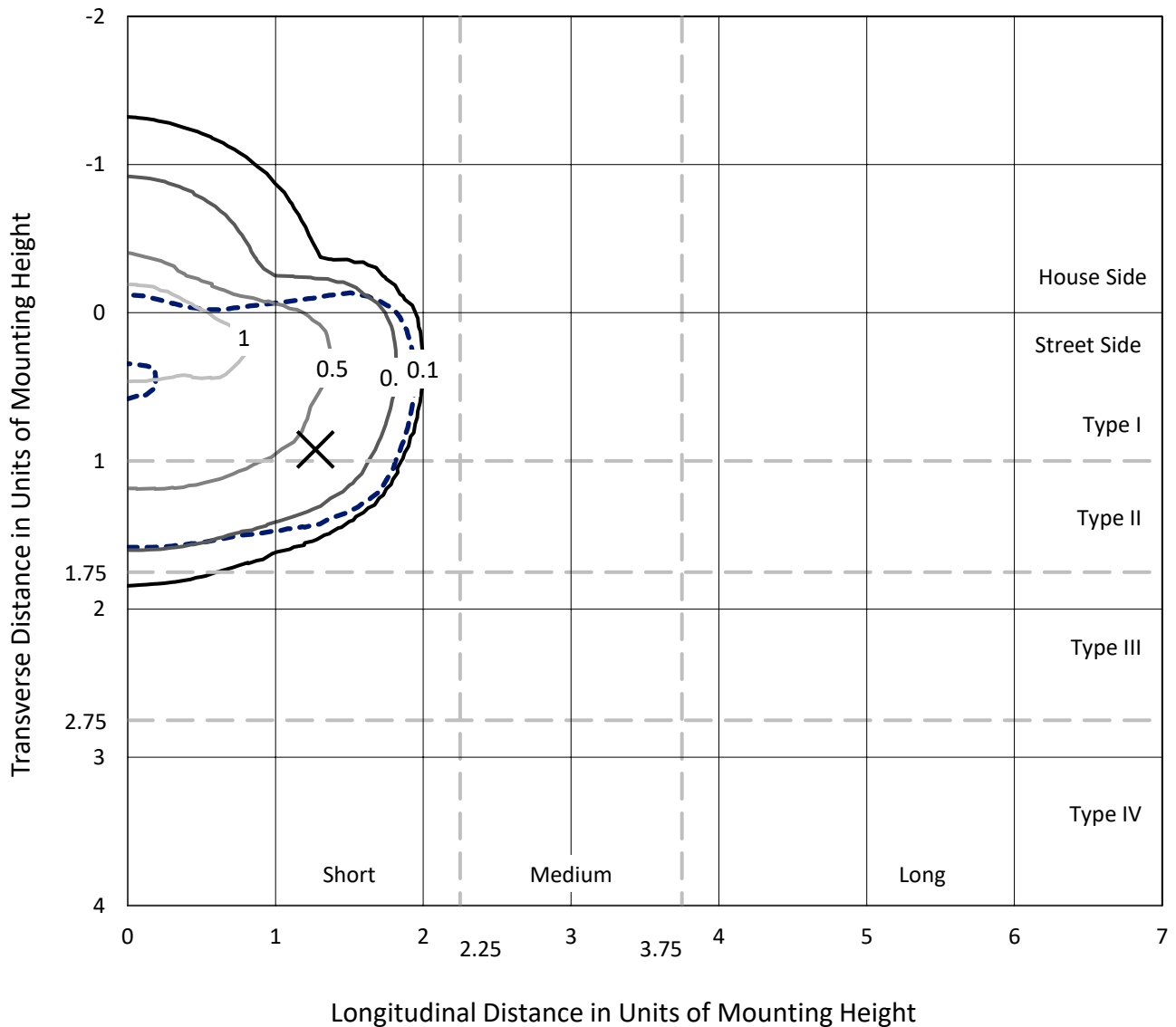
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

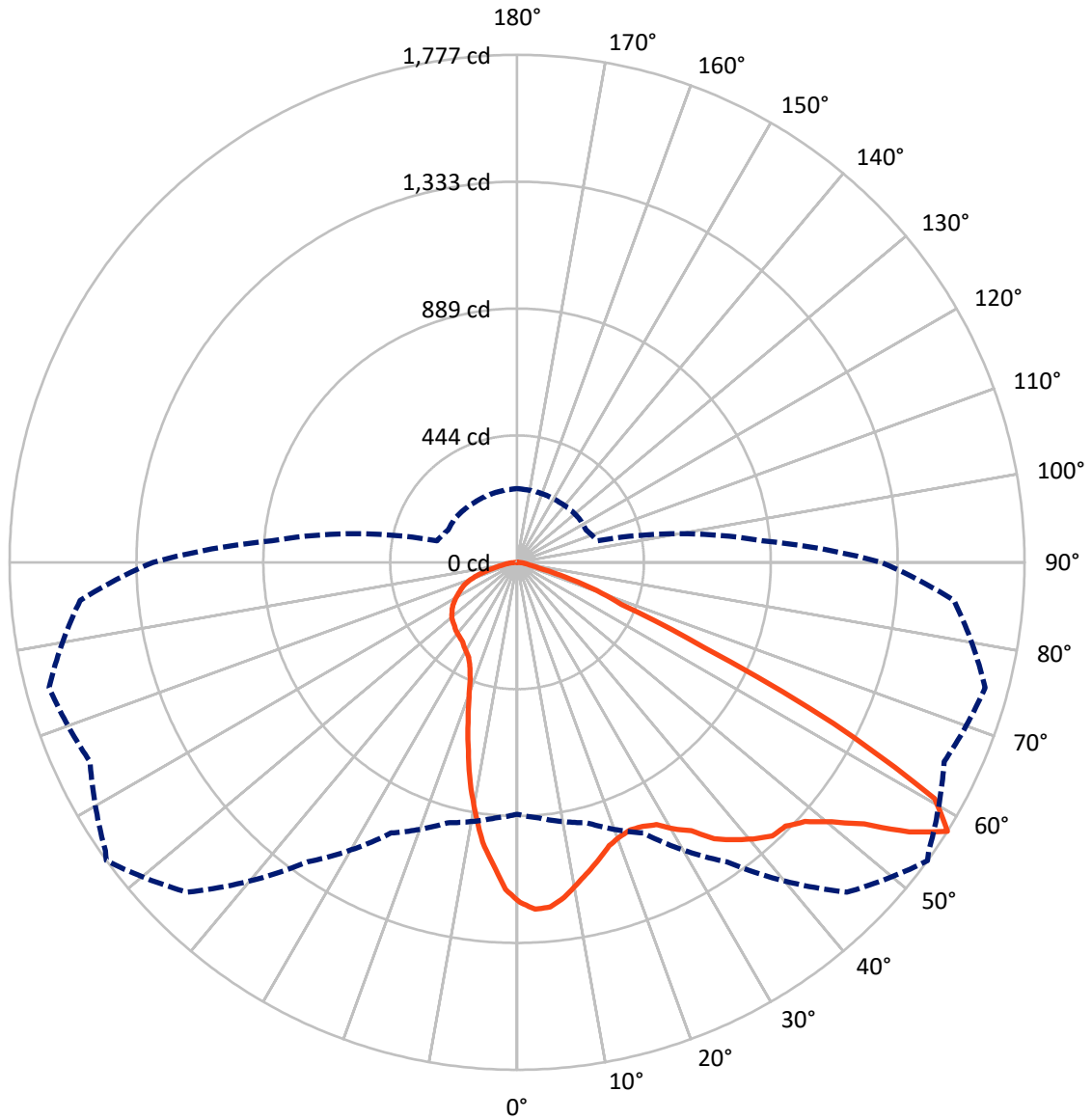
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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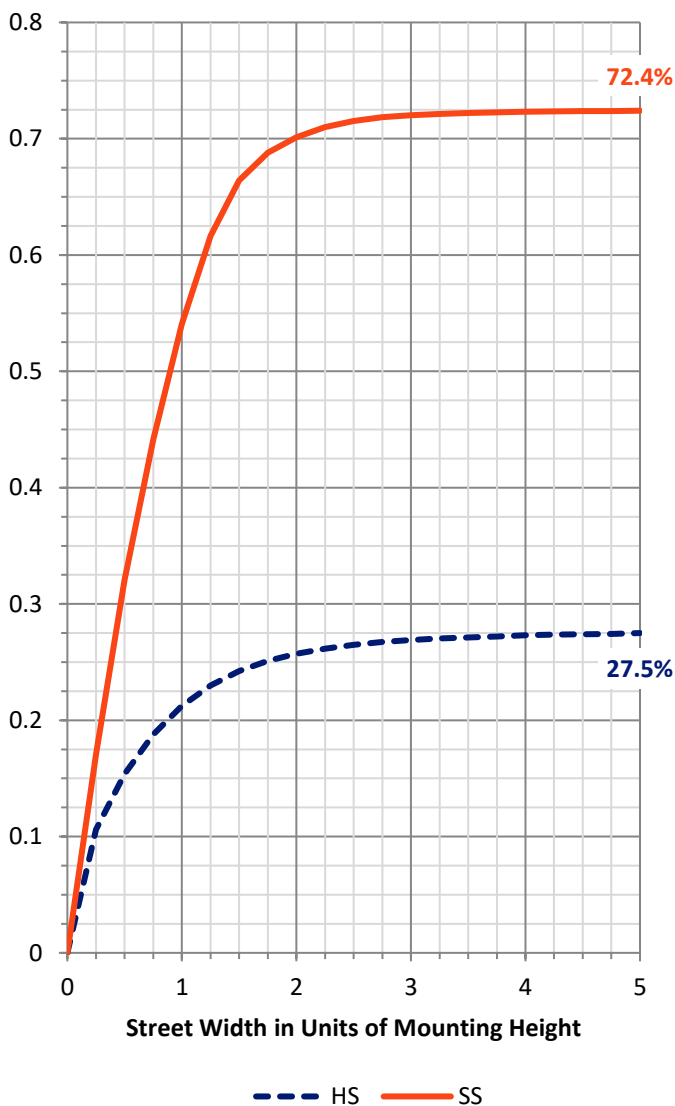
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.9	0.0	847.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2216.8	0.0	2216.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	3064.7	0.0	3064.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.4
10°-20°	237.9	7.8
20°-30°	334.2	10.9
30°-40°	467.2	15.2
40°-50°	632.5	20.6
50°-60°	770.4	25.1
60°-70°	401.3	13.1
70°-80°	102.8	3.4
80°-90°	15.7	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°	3064.7	100.0
0°-180°	3064.7	100.0

Coefficient of Utilization

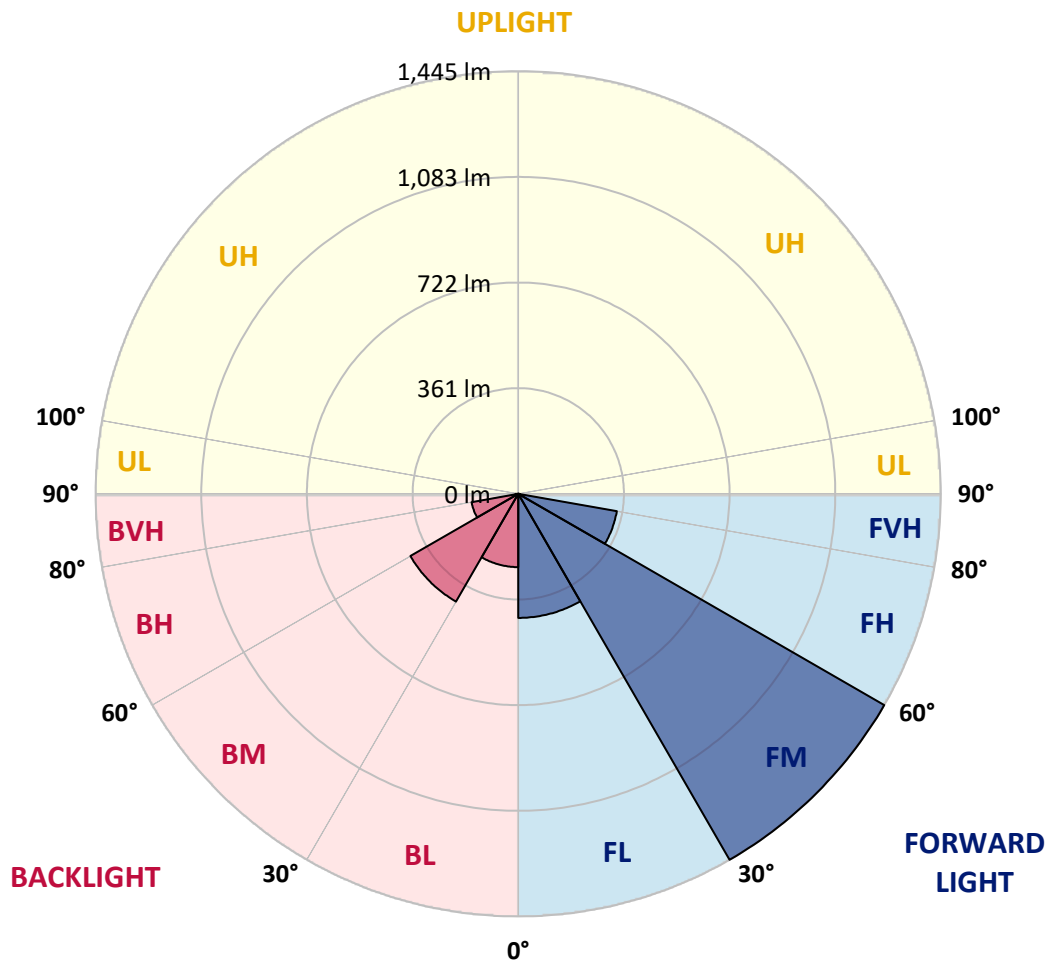


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.2	13.8			
FM (30°-60°)	1444.6	47.1			
FH (60°-80°)	342.1	11.2			G0/660
FVH (80°-90°)	5.9	0.2			G0/10
BL (0°-30°)	250.6	8.2	B1/500		
BM (30°-60°)	425.5	13.9	B1/1000		
BH (60°-80°)	162.0	5.3	B1/500		G1/500
BVH (80°-90°)	9.8	0.3			G0/10
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°	54°	55°	65°	75°	85°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1225.1	1220.4	1221.2	1227.4	1219.5	1216.4	1216.4	1201.0	1202.2	1191.6	1188.8
5°	1196.7	1185.7	1193.1	1202.6	1204.2	1207.4	1212.5	1208.6	1197.5	1186.1	1167.5
7.5°	1122.7	1132.5	1135.3	1141.9	1156.2	1169.2	1185.3	1174.3	1173.9	1162.4	1151.4
10°	1057.7	1051.7	1066.8	1076.5	1100.2	1121.9	1146.7	1145.5	1151.4	1138.4	1119.5
12.5°	993.1	988.3	995.4	1017.9	1050.9	1082.5	1112.0	1101.0	1132.5	1130.1	1089.5
15°	924.5	928.1	938.3	959.2	1002.5	1040.3	1077.7	1078.1	1106.1	1115.5	1061.2
17.5°	876.5	872.5	885.5	916.7	955.3	1000.5	1043.1	1051.7	1094.7	1100.2	1052.5
20°	840.6	846.1	863.1	878.8	923.3	978.1	1026.1	1029.3	1092.4	1107.3	1038.7
22.5°	831.9	828.8	834.3	859.9	896.5	956.0	1017.1	1028.9	1091.9	1105.0	1012.7
25°	822.9	833.1	832.7	858.3	885.1	938.3	1024.6	1037.6	1112.8	1117.1	1016.3
27.5°	843.4	842.2	853.2	855.2	888.3	943.0	1040.3	1050.2	1147.5	1144.0	1019.1
30°	863.9	857.9	864.7	887.9	903.3	970.2	1083.7	1082.9	1192.4	1190.0	1027.7
32.5°	889.1	886.3	890.7	911.1	937.1	1006.5	1120.3	1143.6	1238.1	1253.0	1057.7
35°	893.8	905.2	915.5	943.0	980.1	1065.1	1189.2	1208.6	1290.9	1337.8	1114.8
37.5°	923.7	928.1	952.1	1000.9	1034.8	1143.6	1233.0	1245.1	1338.9	1392.1	1175.0
40°	955.7	960.7	997.0	1048.2	1094.7	1194.8	1273.9	1277.9	1354.3	1433.8	1214.4
42.5°	999.0	1003.7	1039.5	1103.7	1166.0	1238.5	1310.2	1314.5	1353.1	1481.9	1277.1
45°	1043.9	1055.3	1097.5	1170.4	1226.3	1289.7	1318.4	1336.2	1364.1	1524.8	1327.9
47.5°	1106.9	1117.6	1152.2	1223.5	1288.9	1334.5	1356.6	1374.0	1390.5	1562.2	1360.6
50°	1173.9	1175.8	1218.0	1282.6	1330.6	1385.4	1428.0	1433.8	1425.2	1605.6	1416.1
52.5°	1223.1	1229.4	1262.1	1325.1	1396.8	1464.2	1522.5	1528.8	1511.8	1621.7	1435.0
55°	1141.5	1138.0	1191.2	1275.1	1441.3	1581.6	1666.2	1671.0	1574.8	1671.8	1496.9
57.5°	882.4	899.3	944.6	1045.9	1280.6	1633.6	1777.3	1760.4	1650.5	1697.0	1536.2
60°	641.3	637.4	667.7	735.5	965.1	1407.8	1680.5	1697.8	1588.6	1529.6	1266.8
62.5°	522.3	516.8	519.2	521.6	622.8	934.4	1244.0	1243.6	1223.5	1099.4	854.4
65°	417.6	430.6	431.7	449.4	462.4	558.2	720.8	759.4	661.4	542.4	393.5
67.5°	314.8	310.0	325.8	388.8	413.2	403.0	393.5	397.8	282.8	204.0	192.2
70°	185.6	183.5	202.5	271.0	340.4	320.2	296.6	297.0	194.2	142.6	158.7
72.5°	101.6	101.2	105.2	137.5	193.4	200.9	178.1	183.5	115.8	115.4	124.1
75°	56.7	55.5	54.3	60.7	69.7	73.7	75.2	76.0	79.6	89.0	92.6
77.5°	20.9	20.1	20.1	23.3	29.5	37.0	46.9	47.7	56.3	64.6	68.1
80°	7.1	7.9	10.6	14.6	19.7	26.4	31.9	32.7	39.8	45.3	46.5
82.5°	4.3	4.7	7.1	10.3	14.2	18.5	23.6	24.0	29.5	33.1	34.7
85°	2.0	2.3	3.9	6.3	9.1	12.2	12.6	12.6	12.2	12.6	11.8
87.5°	0.0	0.0	0.8	0.8	0.8	1.2	1.6	1.2	2.0	2.3	2.3
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°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1180.5	1176.2	1162.8	1151.0	1147.5	1131.7	1108.5	1111.2	1094.3	1102.2	1093.9
5°	1164.4	1149.8	1115.5	1101.0	1062.8	1045.5	1033.6	1004.1	990.3	987.5	975.7
7.5°	1123.1	1114.0	1071.1	1031.7	991.1	956.4	911.9	881.6	859.9	854.0	836.7
10°	1090.3	1070.3	1010.8	950.9	893.0	832.7	774.9	729.5	707.4	681.8	673.2
12.5°	1058.1	1027.7	947.4	870.5	795.7	719.7	649.6	594.5	546.4	534.9	531.0
15°	1037.9	985.2	890.7	798.0	691.7	592.4	522.3	486.1	456.6	444.4	453.0
17.5°	1011.6	950.1	836.2	713.0	596.0	504.6	445.9	423.4	412.8	414.0	410.4
20°	978.5	917.0	765.0	635.8	510.5	437.6	404.2	395.9	397.5	400.2	399.0
22.5°	954.9	876.9	713.4	557.0	441.2	400.6	386.8	380.9	386.0	388.4	386.4
25°	936.7	842.6	650.8	487.3	401.0	379.8	373.4	373.0	380.9	384.1	382.1
27.5°	920.2	810.6	588.5	434.1	374.2	363.5	361.6	366.4	371.5	374.6	377.4
30°	910.3	786.3	530.2	389.6	360.8	355.7	352.2	356.5	359.2	362.4	360.8
32.5°	919.8	768.9	473.9	364.4	349.8	344.7	349.4	346.6	351.4	354.2	349.8
35°	949.3	753.6	433.7	350.9	337.2	339.2	340.0	338.8	340.8	338.3	343.5
37.5°	978.5	748.1	396.7	339.6	331.3	331.3	330.5	328.2	332.1	331.3	333.6
40°	1015.6	751.6	365.2	327.4	325.8	324.9	321.8	321.4	319.9	320.2	321.0
42.5°	1047.8	759.4	347.0	319.5	320.6	322.2	316.3	311.6	313.6	309.6	309.6
45°	1082.1	766.6	330.9	314.0	312.7	312.3	307.6	304.9	303.3	303.7	307.2
47.5°	1136.1	776.8	318.7	306.5	307.2	301.4	300.2	296.6	298.2	300.6	301.0
50°	1174.3	798.5	309.2	297.8	300.6	296.6	289.6	288.0	288.0	291.9	291.1
52.5°	1201.0	828.8	300.2	288.4	289.6	286.3	284.0	280.5	278.1	283.6	286.3
55°	1282.9	879.2	297.8	280.5	280.1	276.9	272.6	269.0	267.9	268.6	274.1
57.5°	1275.1	863.5	290.3	266.7	265.9	261.5	257.2	256.0	255.6	256.4	258.0
60°	1035.2	637.8	259.2	251.0	249.8	248.9	244.6	239.9	237.6	239.9	238.0
62.5°	685.0	427.0	228.5	232.0	232.8	230.8	223.8	219.0	219.8	222.5	218.2
65°	336.4	251.0	207.2	216.7	217.4	212.0	205.2	199.7	196.9	199.4	197.3
67.5°	192.2	191.8	189.9	199.7	199.4	193.8	183.1	178.4	173.7	174.5	173.4
70°	163.1	166.2	170.1	176.1	175.7	169.4	156.8	153.2	146.5	145.7	143.8
72.5°	128.4	133.9	142.6	147.0	143.4	135.5	127.2	121.3	115.4	111.9	113.1
75°	95.3	103.2	107.9	110.7	105.2	100.9	94.1	87.1	79.9	76.8	75.6
77.5°	69.3	71.7	76.0	78.0	74.5	70.1	66.2	59.1	52.4	48.1	46.9
80°	48.5	50.0	53.2	53.2	53.2	51.2	46.1	39.0	34.7	30.7	29.9
82.5°	33.9	35.5	38.6	37.0	36.6	34.3	31.1	25.6	20.9	18.1	17.3
85°	11.8	13.0	15.7	18.9	20.1	19.7	17.7	14.2	11.0	9.1	8.3
87.5°	2.7	2.7	3.1	2.7	2.7	3.1	2.7	2.7	2.7	2.0	1.6
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)