

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: P651674

Luminaire Tested: **GALN-SA1A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651674
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-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 3291.7 lumens
Efficiency: N/A
Efficacy: 99.7 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

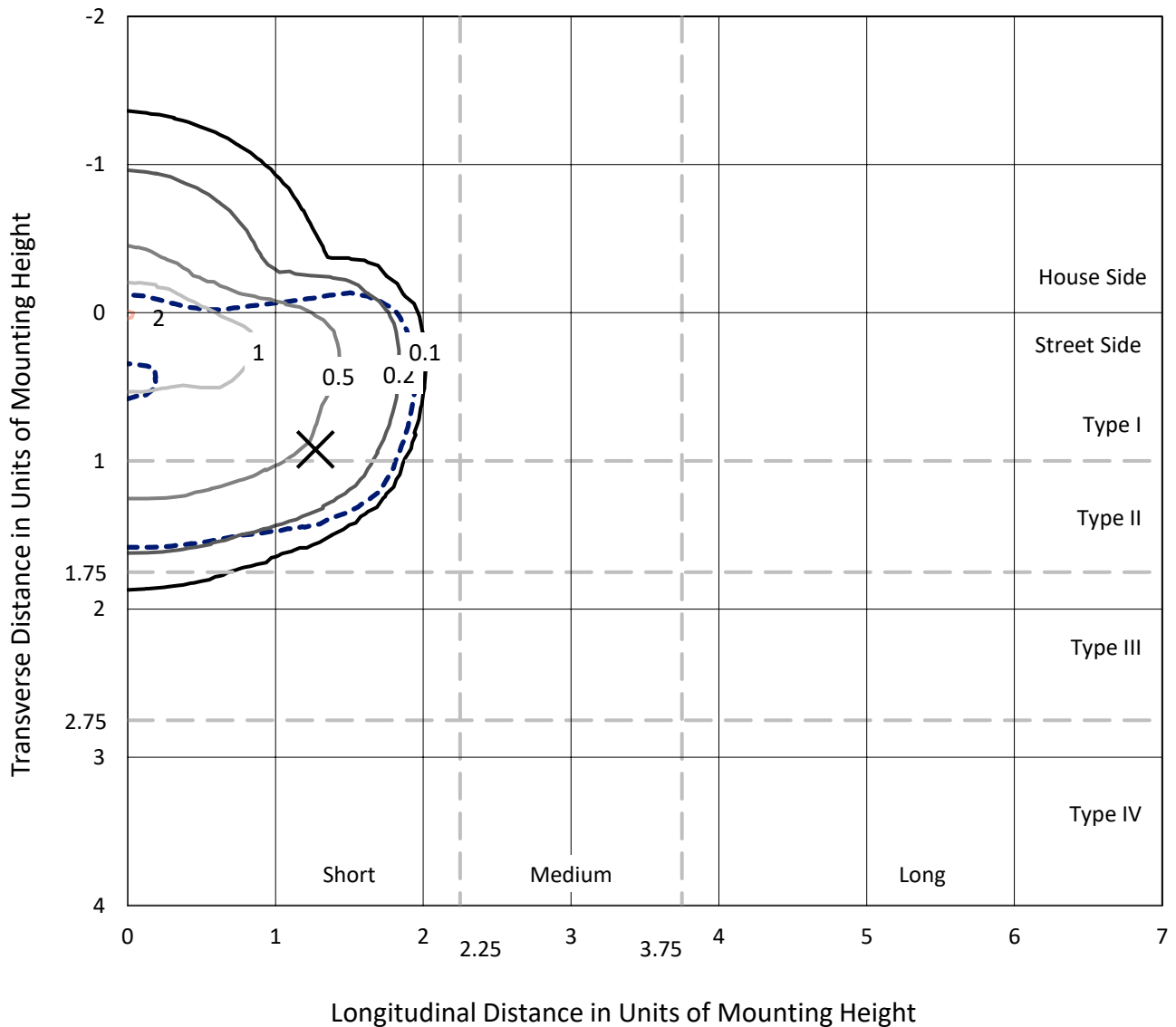
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

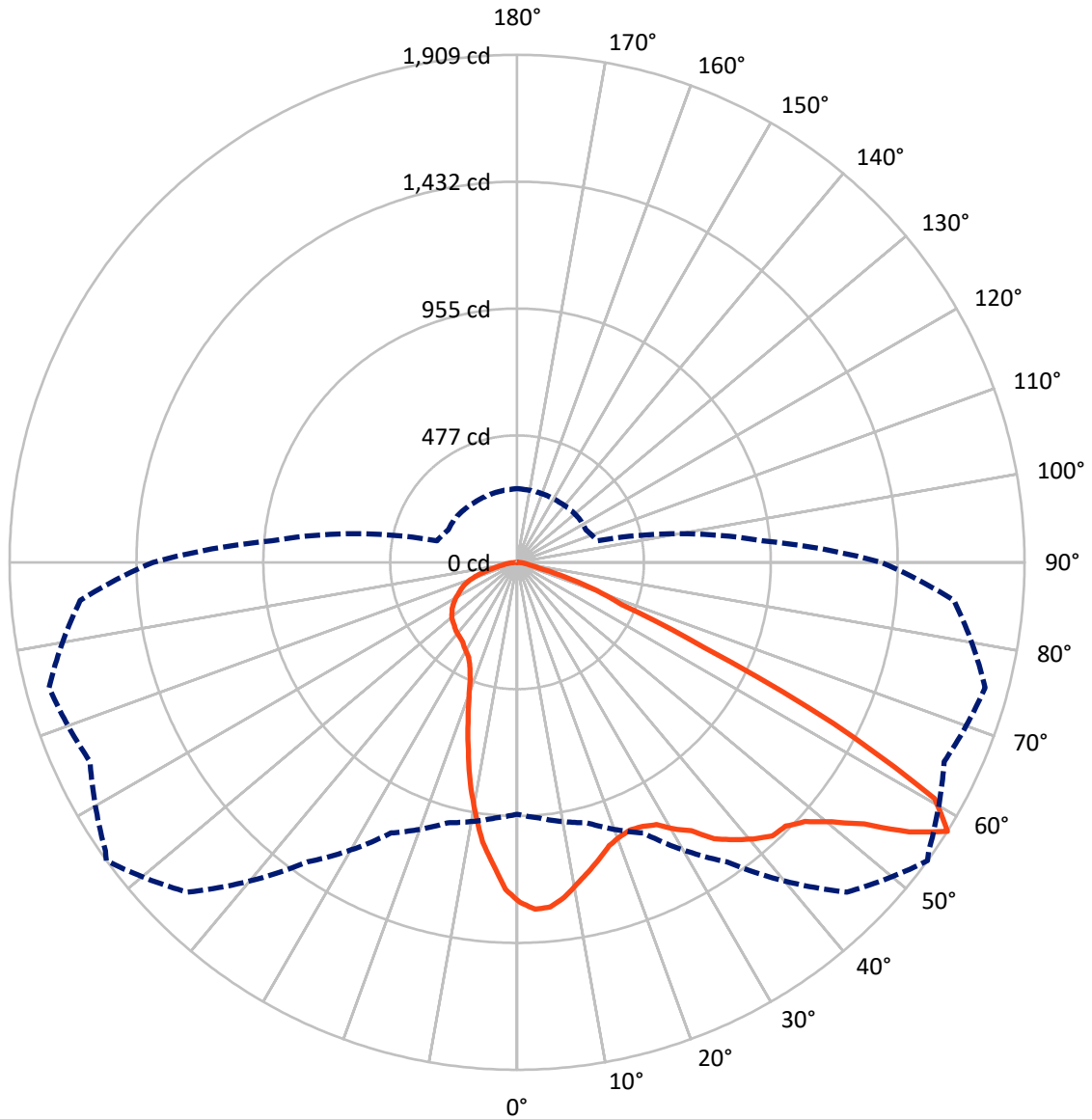
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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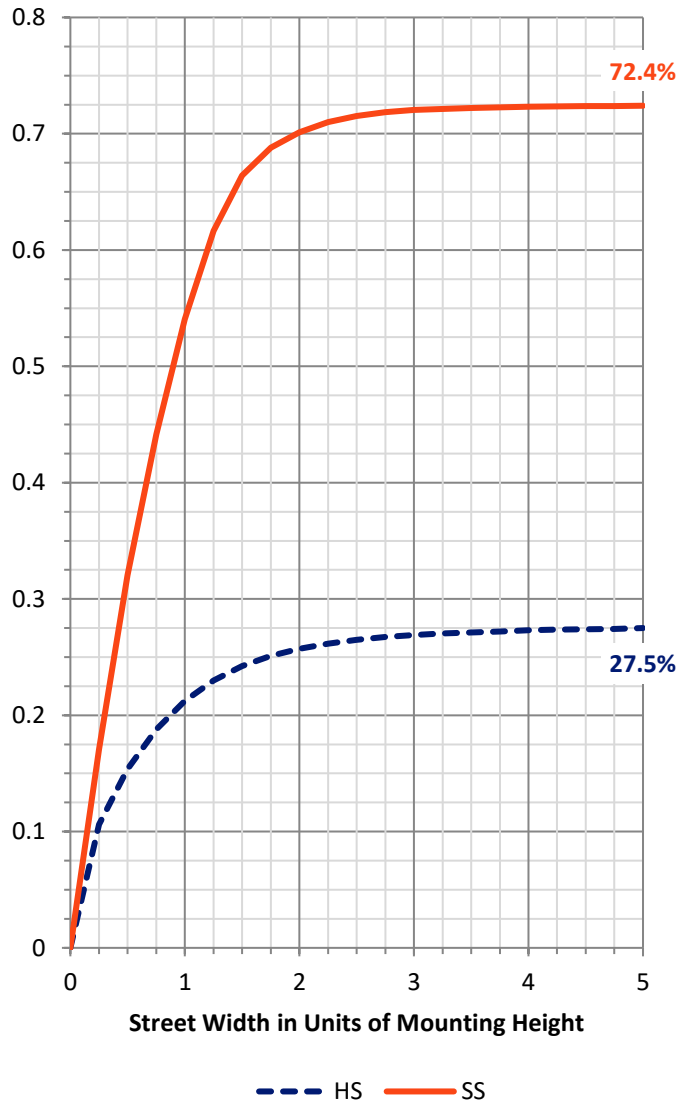
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.7	0.0	910.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2381.0	0.0	2381.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	3291.7	0.0	3291.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.4
10°-20°	255.5	7.8
20°-30°	358.9	10.9
30°-40°	501.8	15.2
40°-50°	679.4	20.6
50°-60°	827.5	25.1
60°-70°	431.0	13.1
70°-80°	110.4	3.4
80°-90°	16.8	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°	3291.7	100.0
0°-180°	3291.7	100.0

Coefficient of Utilization



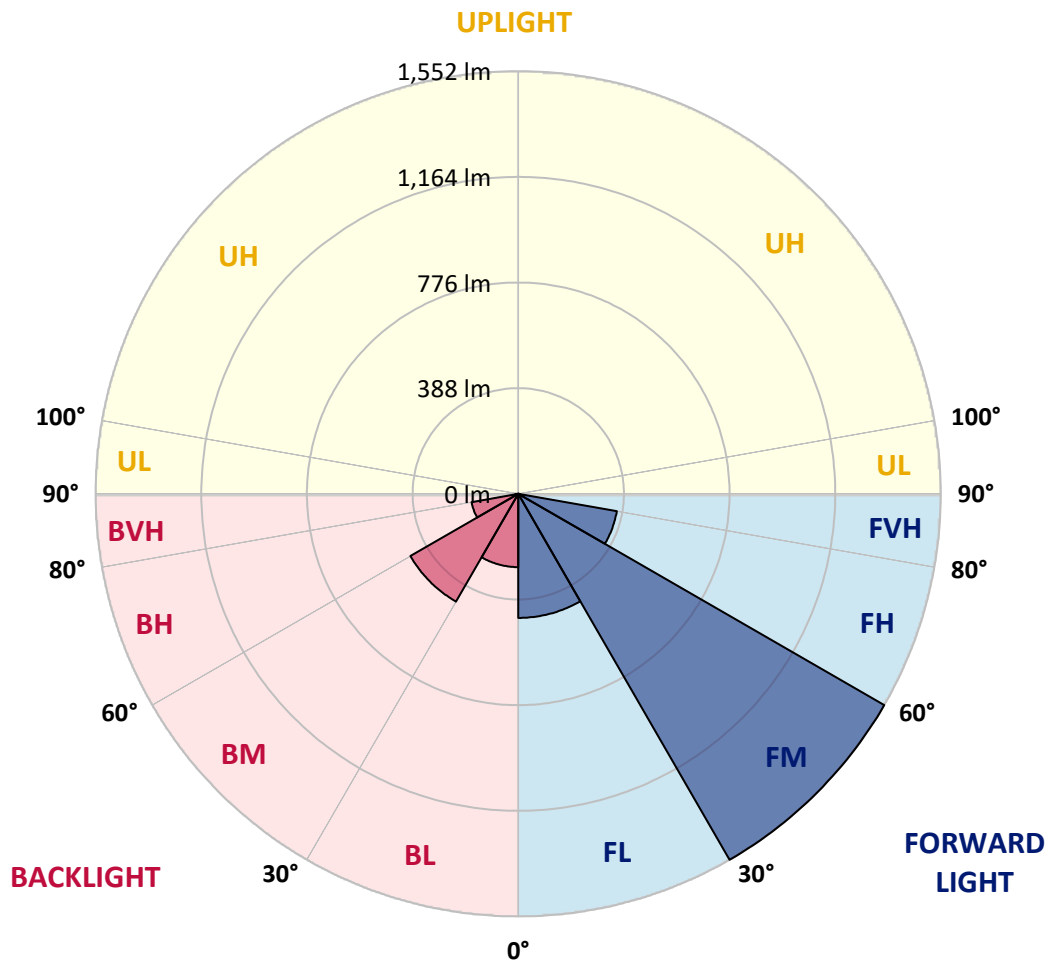
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.6	13.8			
FM (30°-60°)	1551.6	47.1			
FH (60°-80°)	367.4	11.2			G0/660
FVH (80°-90°)	6.4	0.2			G0/10
BL (0°-30°)	269.1	8.2	B1/500		
BM (30°-60°)	457.1	13.9	B1/1000		
BH (60°-80°)	174.0	5.3	B1/500		G1/500
BVH (80°-90°)	10.5	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°	54°	55°	65°	75°	85°
0°	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4
2.5°	1315.8	1310.8	1311.6	1318.4	1309.9	1306.5	1306.5	1290.0	1291.3	1279.8	1276.9
5°	1285.4	1273.5	1281.5	1291.7	1293.4	1296.8	1302.3	1298.1	1286.2	1273.9	1254.0
7.5°	1205.8	1216.4	1219.4	1226.5	1241.8	1255.8	1273.1	1261.2	1260.8	1248.5	1236.7
10°	1136.0	1129.6	1145.8	1156.3	1181.7	1205.0	1231.6	1230.4	1236.7	1222.7	1202.5
12.5°	1066.6	1061.5	1069.2	1093.3	1128.8	1162.7	1194.4	1182.5	1216.4	1213.8	1170.3
15°	993.0	996.8	1007.8	1030.2	1076.7	1117.4	1157.6	1158.0	1188.1	1198.2	1139.8
17.5°	941.4	937.1	951.1	984.6	1026.0	1074.6	1120.4	1129.6	1175.8	1181.7	1130.5
20°	902.9	908.8	927.0	943.9	991.7	1050.6	1102.1	1105.6	1173.3	1189.3	1115.7
22.5°	893.6	890.2	896.1	923.6	962.9	1026.9	1092.5	1105.2	1172.8	1186.8	1087.7
25°	883.8	894.8	894.4	921.9	950.7	1007.8	1100.4	1114.4	1195.2	1199.9	1091.6
27.5°	905.8	904.6	916.4	918.5	954.1	1012.9	1117.4	1127.9	1232.5	1228.7	1094.6
30°	927.9	921.5	928.7	953.7	970.2	1042.1	1163.9	1163.1	1280.7	1278.2	1103.8
32.5°	955.0	951.9	956.6	978.6	1006.5	1081.0	1203.3	1228.3	1329.8	1345.9	1136.0
35°	960.0	972.3	983.3	1012.9	1052.7	1144.0	1277.3	1298.1	1386.5	1436.8	1197.3
37.5°	992.1	996.8	1022.7	1075.1	1111.5	1228.3	1324.3	1337.4	1438.1	1495.2	1262.1
40°	1026.4	1031.9	1070.8	1125.8	1175.8	1283.3	1368.3	1372.5	1454.6	1540.0	1304.4
42.5°	1072.9	1078.1	1116.5	1185.5	1252.3	1330.2	1407.2	1411.9	1453.3	1591.7	1371.7
45°	1121.2	1133.5	1178.7	1257.0	1317.1	1385.2	1416.1	1435.2	1465.2	1637.8	1426.3
47.5°	1188.9	1200.4	1237.5	1314.1	1384.4	1433.4	1457.1	1475.8	1493.5	1678.0	1461.4
50°	1260.8	1262.9	1308.2	1377.6	1429.2	1488.0	1533.7	1540.0	1530.8	1724.6	1521.0
52.5°	1313.7	1320.5	1355.6	1423.3	1500.3	1572.7	1635.2	1642.1	1623.8	1741.9	1541.3
55°	1226.1	1222.3	1279.4	1369.6	1548.1	1698.7	1789.6	1794.8	1691.5	1795.6	1607.7
57.5°	947.7	965.9	1014.6	1123.3	1375.5	1754.6	1909.0	1890.8	1772.7	1822.7	1650.0
60°	688.8	684.6	717.1	790.0	1036.6	1512.1	1805.0	1823.5	1706.3	1642.9	1360.7
62.5°	561.0	555.1	557.7	560.2	668.9	1003.6	1336.1	1335.7	1314.1	1180.8	917.7
65°	448.5	462.5	463.7	482.7	496.7	599.5	774.2	815.7	710.4	582.6	422.7
67.5°	338.1	333.0	349.9	417.6	443.8	432.9	422.7	427.3	303.8	219.2	206.5
70°	199.3	197.1	217.5	291.1	365.6	344.0	318.6	319.0	208.6	153.1	170.5
72.5°	109.2	108.7	112.9	147.7	207.7	215.8	191.2	197.1	124.4	124.0	133.3
75°	60.9	59.6	58.4	65.2	74.8	79.1	80.8	81.7	85.4	95.6	99.4
77.5°	22.5	21.6	21.6	25.0	31.7	39.8	50.4	51.2	60.5	69.4	73.2
80°	7.7	8.5	11.4	15.6	21.2	28.3	34.2	35.2	42.7	48.7	50.0
82.5°	4.6	5.0	7.7	11.0	15.2	19.8	25.4	25.8	31.7	35.6	37.3
85°	2.1	2.5	4.2	6.7	9.8	13.1	13.5	13.5	13.1	13.5	12.7
87.5°	0.0	0.0	0.8	0.8	0.8	1.3	1.7	1.3	2.1	2.5	2.5
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°	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4	1279.4
2.5°	1268.0	1263.4	1249.0	1236.3	1232.5	1215.6	1190.6	1193.5	1175.4	1183.8	1175.0
5°	1250.7	1235.0	1198.2	1182.5	1141.5	1122.9	1110.2	1078.5	1063.7	1060.7	1048.0
7.5°	1206.2	1196.5	1150.4	1108.1	1064.5	1027.3	979.4	946.9	923.6	917.3	898.7
10°	1171.1	1149.6	1085.6	1021.3	959.2	894.4	832.3	783.6	759.8	732.3	723.1
12.5°	1136.4	1103.8	1017.5	935.0	854.6	773.0	697.7	638.5	586.8	574.6	570.4
15°	1114.8	1058.1	956.6	857.1	742.9	636.3	561.0	522.1	490.4	477.3	486.5
17.5°	1086.5	1020.5	898.2	765.8	640.2	542.0	478.9	454.8	443.4	444.6	440.9
20°	1051.0	985.0	821.7	682.9	548.3	470.0	434.1	425.2	426.9	429.8	428.6
22.5°	1025.6	941.8	766.2	598.3	473.9	430.3	415.5	409.1	414.6	417.1	415.0
25°	1006.1	905.0	699.0	523.4	430.7	407.9	401.1	400.7	409.1	412.5	410.4
27.5°	988.3	870.7	632.1	466.3	401.9	390.5	388.4	393.5	399.0	402.3	405.4
30°	977.7	844.5	569.5	418.5	387.5	382.1	378.3	382.9	385.9	389.2	387.5
32.5°	987.9	825.9	509.0	391.4	375.7	370.2	375.3	372.3	377.4	380.4	375.7
35°	1019.6	809.4	465.8	376.9	362.1	364.3	365.2	363.9	366.0	363.4	368.9
37.5°	1051.0	803.5	426.1	364.7	355.8	355.8	355.0	352.5	356.7	355.8	358.4
40°	1090.8	807.3	392.2	351.6	349.9	349.0	345.7	345.2	343.5	344.0	344.8
42.5°	1125.4	815.7	372.7	343.1	344.4	346.1	339.8	334.6	336.8	332.5	332.5
45°	1162.3	823.3	355.4	337.2	335.9	335.5	330.4	327.5	325.8	326.2	330.0
47.5°	1220.2	834.4	342.3	329.2	330.0	323.7	322.4	318.6	320.3	322.9	323.3
50°	1261.2	857.7	332.1	319.8	322.9	318.6	311.0	309.3	309.3	313.5	312.7
52.5°	1290.0	890.2	322.4	309.7	311.0	307.6	305.0	301.2	298.7	304.6	307.6
55°	1378.0	944.4	319.8	301.2	300.8	297.5	292.8	289.0	287.7	288.5	294.4
57.5°	1369.6	927.5	311.8	286.4	285.6	280.9	276.3	275.0	274.6	275.4	277.1
60°	1111.9	685.0	278.4	269.5	268.3	267.4	262.7	257.7	255.2	257.7	255.6
62.5°	735.8	458.6	245.4	249.2	250.0	247.9	240.4	235.2	236.1	239.0	234.4
65°	361.3	269.5	222.5	232.7	233.5	227.7	220.4	214.5	211.5	214.1	211.9
67.5°	206.5	206.0	203.9	214.5	214.1	208.1	196.7	191.7	186.6	187.5	186.2
70°	175.2	178.5	182.7	189.1	188.7	181.9	168.4	164.6	157.4	156.5	154.4
72.5°	137.9	143.8	153.1	157.9	154.0	145.6	136.7	130.3	124.0	120.2	121.4
75°	102.3	110.8	115.9	118.9	112.9	108.3	101.1	93.5	85.9	82.5	81.2
77.5°	74.4	77.0	81.7	83.8	80.0	75.3	71.1	63.5	56.3	51.6	50.4
80°	52.1	53.7	57.1	57.1	57.1	55.0	49.5	41.9	37.3	33.0	32.1
82.5°	36.4	38.1	41.5	39.8	39.4	36.8	33.4	27.5	22.5	19.4	18.6
85°	12.7	14.0	16.9	20.3	21.6	21.2	19.0	15.2	11.9	9.8	8.9
87.5°	2.9	2.9	3.4	2.9	2.9	3.4	2.9	2.9	2.9	2.1	1.7
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)