

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: P647737

Luminaire Tested: **GALN-SA1A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647737
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-SA1A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA 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: 3088.9 lumens
Efficiency: N/A
Efficacy: 93.6 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

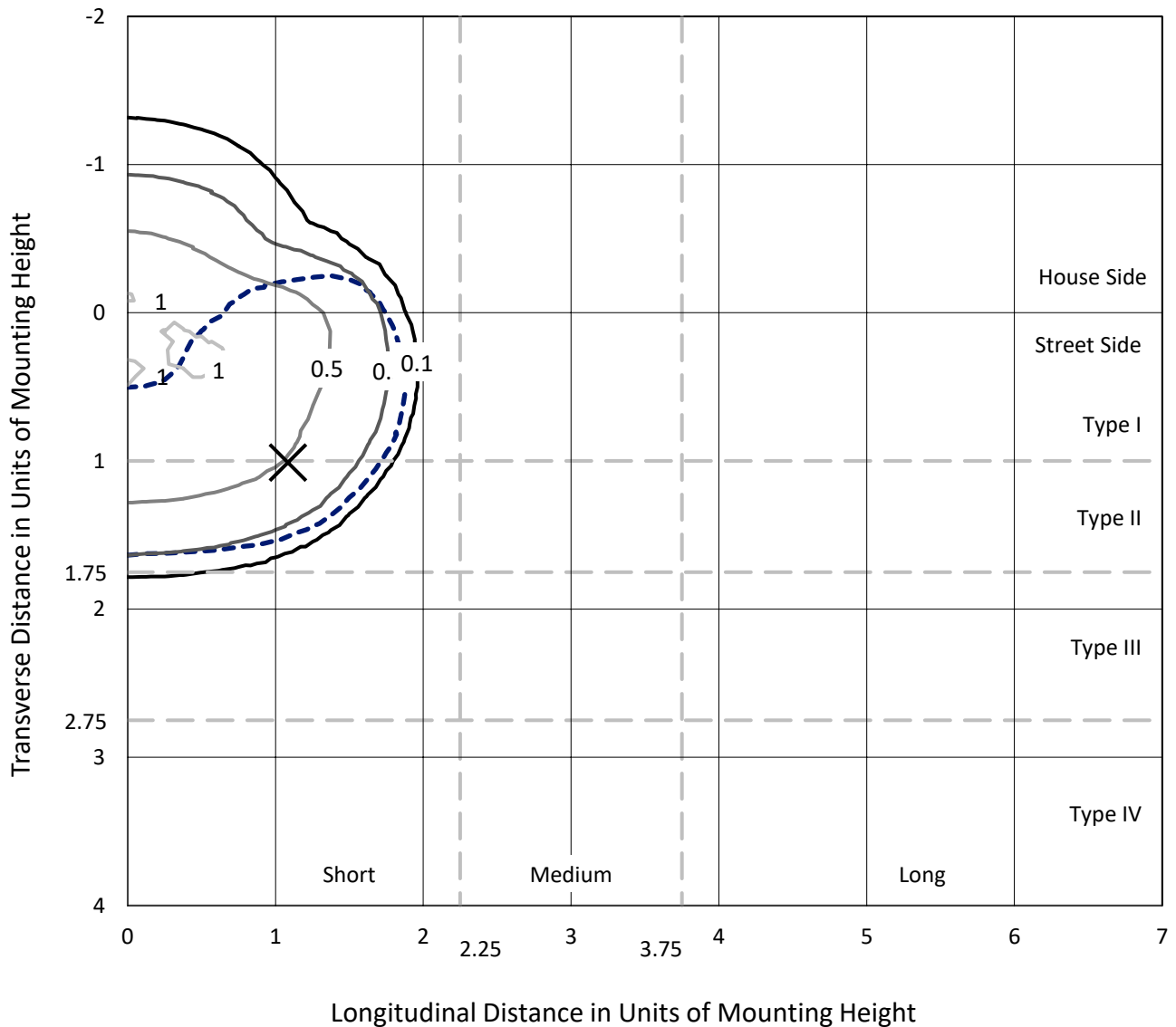
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

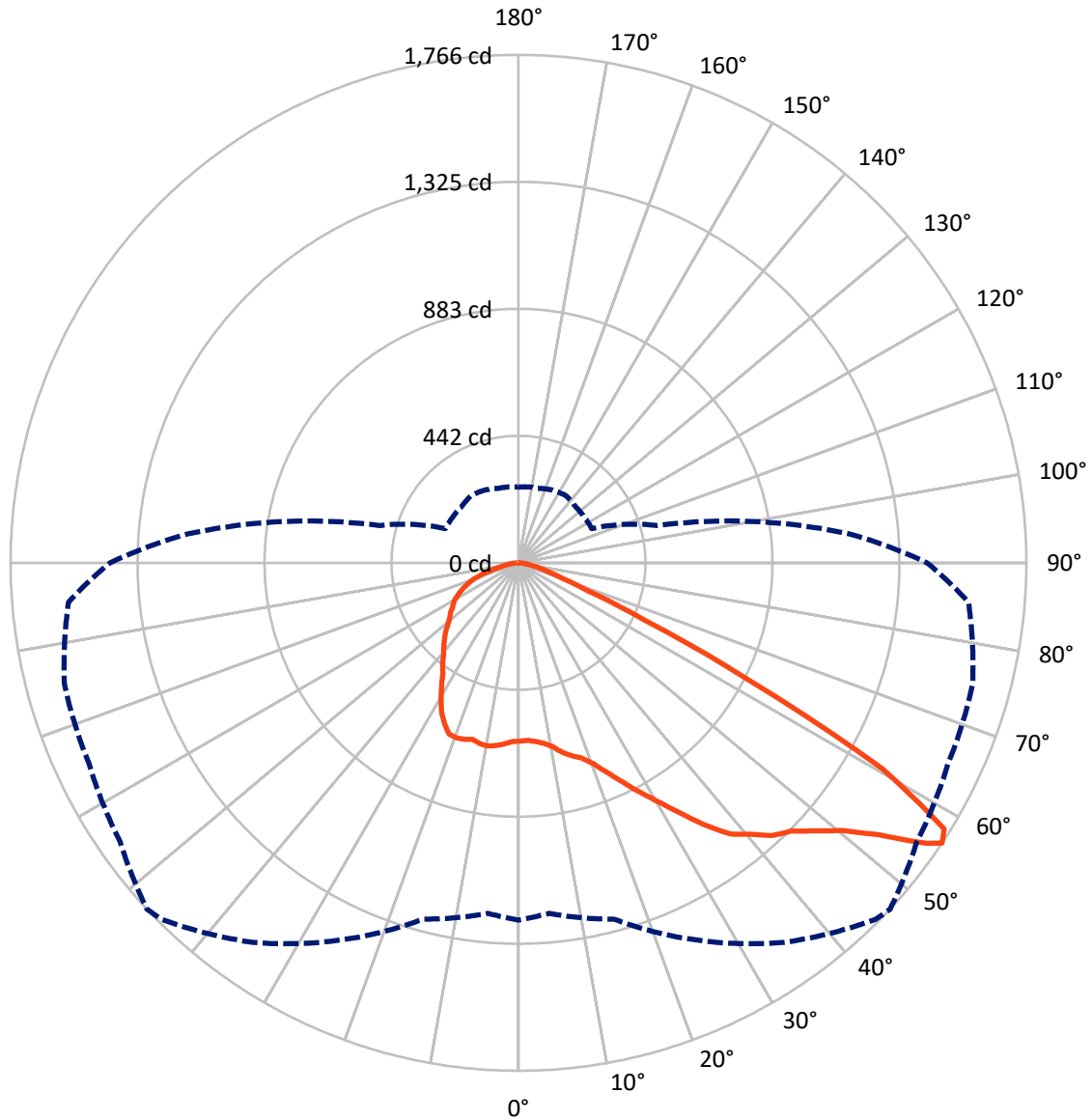
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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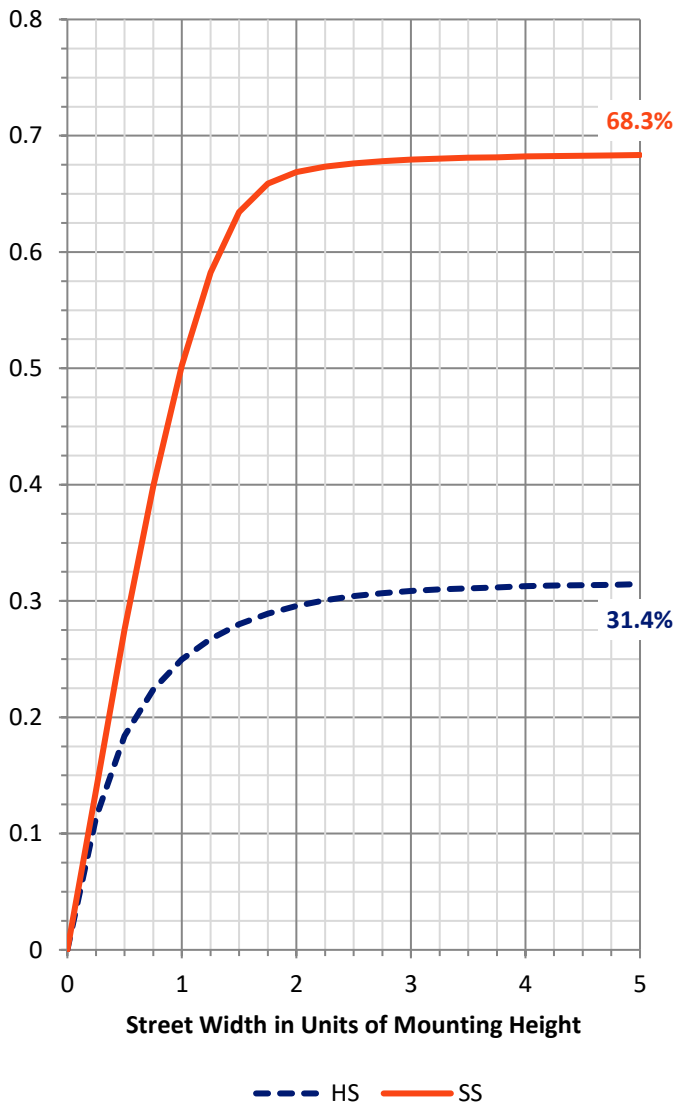
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.8	0.0	978.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	2110.1	0.0	2110.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	3088.9	0.0	3088.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	2.0
10°-20°	190.7	6.2
20°-30°	337.1	10.9
30°-40°	506.4	16.4
40°-50°	694.9	22.5
50°-60°	827.9	26.8
60°-70°	354.3	11.5
70°-80°	100.3	3.2
80°-90°	16.9	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°	3088.9	100.0
0°-180°	3088.9	100.0

Coefficient of Utilization

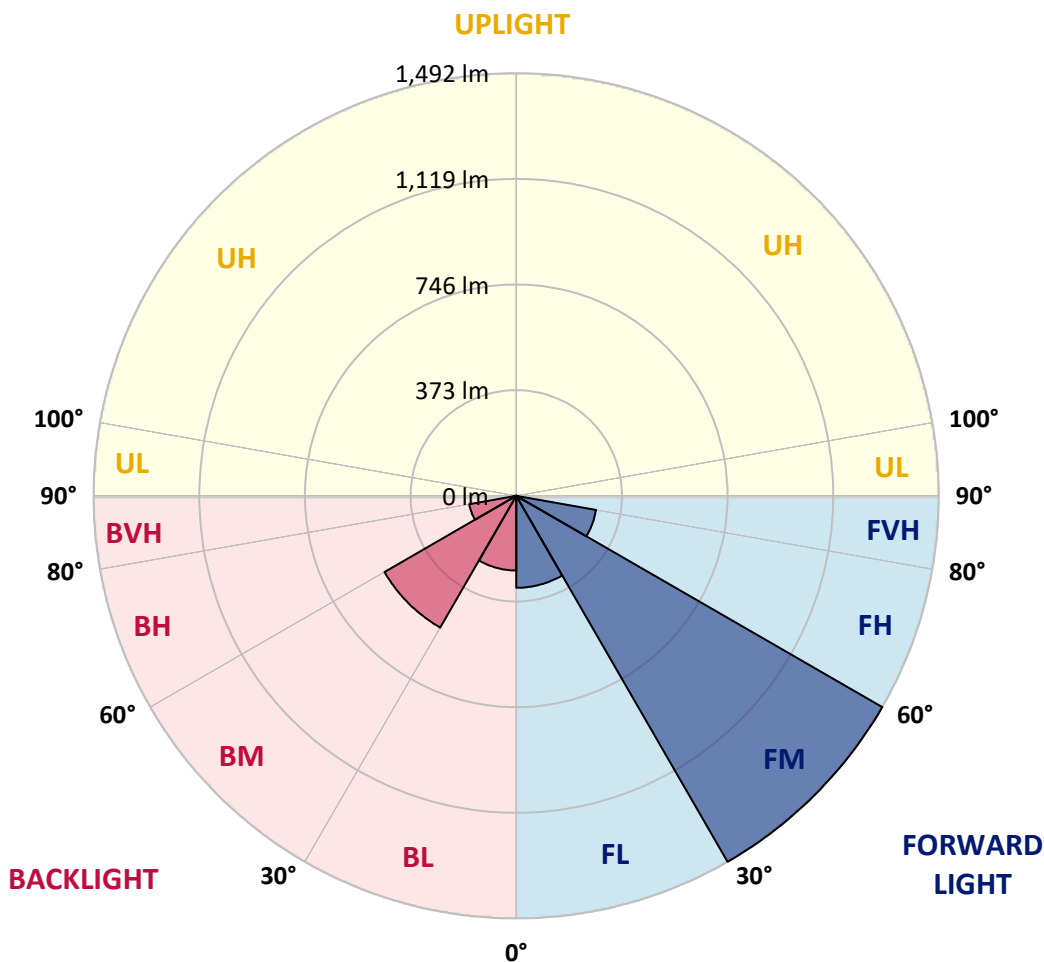


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.8	10.5			
FM (30°-60°)	1492.0	48.3			
FH (60°-80°)	286.1	9.3			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	263.5	8.5	B1/500		
BM (30°-60°)	537.2	17.4	B1/1000		
BH (60°-80°)	168.4	5.5	B1/500		G1/500
BVH (80°-90°)	9.7	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°	47°	55°	65°	75°	85°
0°	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
2.5°	618.1	616.9	616.1	622.4	620.1	620.4	618.1	620.4	622.0	618.5	623.7
5°	616.9	620.4	617.3	619.3	624.4	622.8	624.4	629.1	628.0	626.8	625.2
7.5°	628.0	628.4	630.7	631.5	633.1	631.5	633.8	638.2	637.0	630.3	631.1
10°	643.7	644.5	644.9	649.3	652.0	652.4	649.7	645.7	645.3	654.4	648.0
12.5°	661.9	659.8	664.6	666.2	669.3	672.8	676.4	668.1	673.3	673.7	666.2
15°	688.3	690.2	684.7	684.7	685.9	686.3	696.1	692.2	691.4	687.1	690.2
17.5°	727.6	714.3	713.9	708.3	707.5	710.7	714.3	717.4	728.0	719.3	702.4
20°	756.4	759.5	748.1	741.4	742.6	749.7	746.1	760.3	767.8	753.6	737.1
22.5°	807.2	796.5	799.4	784.3	785.5	793.0	792.6	807.2	811.5	789.1	765.1
25°	841.5	838.7	841.1	829.3	830.8	836.7	846.2	870.2	863.2	838.4	782.8
27.5°	891.5	886.0	884.0	879.7	878.1	893.9	904.9	930.5	925.4	889.2	814.3
30°	942.7	939.2	941.2	923.4	929.7	963.2	966.4	1001.5	999.0	935.2	849.3
32.5°	978.2	980.2	983.7	973.8	1001.8	1028.6	1039.3	1079.1	1081.0	1014.5	917.1
35°	1035.3	1028.6	1030.6	1042.0	1055.0	1103.9	1121.2	1147.6	1164.2	1097.5	982.1
37.5°	1071.1	1078.3	1070.0	1088.1	1122.0	1180.7	1196.4	1223.6	1241.0	1179.5	1070.8
40°	1127.1	1115.7	1121.6	1134.6	1169.3	1245.7	1241.4	1269.3	1274.8	1249.2	1153.5
42.5°	1187.3	1181.9	1173.6	1203.2	1232.3	1287.8	1296.5	1283.5	1311.4	1317.4	1271.7
45°	1259.5	1266.2	1267.4	1268.1	1293.8	1342.2	1330.4	1319.0	1351.2	1394.2	1345.0
47.5°	1326.4	1305.2	1320.5	1341.8	1378.1	1378.5	1392.3	1365.0	1399.3	1437.5	1411.1
50°	1348.9	1338.6	1359.1	1399.3	1455.3	1461.2	1462.7	1424.1	1441.9	1472.2	1434.0
52.5°	1340.3	1336.7	1389.0	1451.3	1533.3	1563.2	1571.1	1523.4	1533.3	1519.5	1484.4
55°	1298.8	1309.5	1362.3	1489.1	1614.8	1707.4	1722.4	1662.1	1599.4	1610.1	1571.5
56°	1242.2	1223.6	1282.7	1446.2	1611.3	1754.2	1766.4	1691.2	1648.7	1634.9	1570.7
57.5°	1053.8	1029.8	1107.4	1301.2	1521.8	1736.5	1745.6	1703.4	1640.4	1612.4	1456.1
60°	616.9	628.7	727.3	897.4	1174.0	1423.7	1454.1	1484.8	1442.7	1317.4	1083.8
62.5°	297.9	290.3	360.9	514.5	715.4	908.8	899.8	986.0	1033.3	936.0	684.3
65°	156.0	155.2	197.0	280.9	393.1	477.5	485.8	532.2	597.2	482.2	347.5
67.5°	114.6	117.8	138.7	197.4	252.9	258.1	256.8	280.1	286.4	242.3	213.5
70°	89.8	91.4	106.7	150.1	188.3	168.6	165.1	167.8	186.4	194.2	184.8
72.5°	65.0	66.6	79.6	101.2	117.8	115.0	117.4	132.8	155.6	163.9	154.0
75°	43.3	44.6	51.6	61.9	69.8	75.2	79.6	97.3	118.5	123.3	118.5
77.5°	29.9	31.1	35.9	43.7	44.6	48.1	49.6	57.9	70.9	76.8	73.7
80°	16.9	16.9	19.3	22.5	27.6	32.3	33.1	39.8	45.7	49.6	50.4
82.5°	7.9	8.3	10.3	13.8	18.1	22.5	23.3	27.6	31.9	35.9	37.0
85°	3.9	4.3	5.9	8.3	11.0	13.4	13.0	13.4	14.2	13.4	13.8
87.5°	1.2	1.2	1.6	2.0	1.6	2.0	2.0	2.3	2.7	3.1	3.5
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°	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4	620.4
2.5°	624.1	625.2	617.3	624.8	622.0	621.6	627.2	626.4	628.4	627.6	622.8
5°	624.4	621.6	629.9	622.4	626.0	633.4	628.4	640.2	634.2	638.2	629.5
7.5°	636.7	637.4	635.9	639.0	637.4	641.0	638.2	641.0	636.3	636.7	644.5
10°	647.2	644.9	647.6	643.7	646.4	645.3	639.0	637.0	638.6	636.7	641.7
12.5°	667.0	662.7	660.6	655.9	652.8	641.0	631.1	625.6	633.1	634.2	631.9
15°	687.1	687.5	678.4	667.7	648.0	630.3	632.7	634.6	634.6	637.8	631.9
17.5°	699.7	699.7	691.4	670.1	650.0	639.8	637.4	631.1	625.6	624.8	624.4
20°	721.7	715.0	696.1	669.7	649.3	644.5	626.8	611.8	600.4	596.4	596.0
22.5°	746.9	730.0	703.6	670.5	648.0	641.4	608.2	585.8	565.3	556.6	557.8
25°	770.2	743.0	707.9	667.0	643.7	611.4	574.4	543.2	521.9	514.9	511.4
27.5°	786.3	756.8	707.9	670.1	627.6	577.9	540.1	500.3	481.8	477.1	477.9
30°	808.0	774.2	720.1	663.4	595.2	534.6	489.3	463.3	452.3	448.3	451.1
32.5°	858.8	819.4	737.1	647.2	557.0	491.3	454.6	440.0	423.9	416.0	413.3
35°	914.0	862.4	753.6	620.1	514.1	451.9	429.0	415.6	396.3	387.7	389.2
37.5°	992.0	917.5	754.8	575.2	467.6	429.8	408.9	388.1	372.3	358.9	354.9
40°	1097.1	992.8	752.1	527.9	430.2	403.8	388.4	362.5	344.7	335.3	337.2
42.5°	1189.8	1081.0	740.6	474.3	396.3	386.1	368.7	343.1	325.8	315.9	315.2
45°	1267.8	1146.0	719.0	428.6	367.9	366.4	346.3	326.6	312.8	303.7	307.6
47.5°	1339.8	1198.4	686.3	382.9	341.9	345.1	325.8	313.6	304.9	296.7	296.3
50°	1365.9	1197.6	657.5	345.1	321.1	319.5	318.7	305.7	296.7	289.6	292.7
52.5°	1409.2	1211.0	626.4	319.1	302.2	302.6	305.3	295.9	285.6	281.3	285.2
55°	1471.4	1212.9	557.8	288.8	286.4	289.2	289.2	282.8	274.2	270.7	268.6
56°	1420.6	1154.3	500.3	280.9	278.5	278.5	286.0	278.9	268.3	265.5	263.2
57.5°	1310.3	1011.2	418.7	271.5	267.9	273.4	277.3	269.8	260.0	256.0	258.5
60°	903.7	684.3	314.8	251.0	251.0	260.0	263.2	252.1	247.8	247.4	244.2
62.5°	527.5	398.7	246.3	232.4	233.3	240.7	243.0	236.8	231.2	238.0	241.1
65°	279.7	238.0	211.2	212.7	213.1	219.0	229.3	228.9	228.5	230.4	230.8
67.5°	202.5	197.8	191.8	190.3	191.1	195.4	205.6	213.5	213.1	208.4	204.8
70°	180.4	173.7	170.2	170.6	167.4	172.6	180.8	186.0	176.9	171.4	169.0
72.5°	150.1	148.1	145.8	146.2	139.8	138.7	129.2	129.2	126.8	125.3	128.0
75°	114.6	113.8	115.0	113.1	106.3	99.3	93.7	88.6	80.7	77.6	76.0
77.5°	72.5	74.9	77.6	73.3	70.5	65.4	59.9	54.7	48.5	44.9	44.9
80°	49.3	51.2	53.2	52.4	49.3	44.6	40.2	34.7	30.3	27.6	27.2
82.5°	37.4	39.0	41.7	38.6	35.5	31.6	28.0	24.0	20.1	16.9	16.9
85°	13.4	15.3	16.9	18.5	19.7	20.1	17.3	14.2	11.4	9.1	8.7
87.5°	3.5	3.9	4.3	3.9	3.9	3.9	4.3	3.9	3.5	2.7	2.7
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)