

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: P648208

Luminaire Tested: **GALN-SA1B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2636.4 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

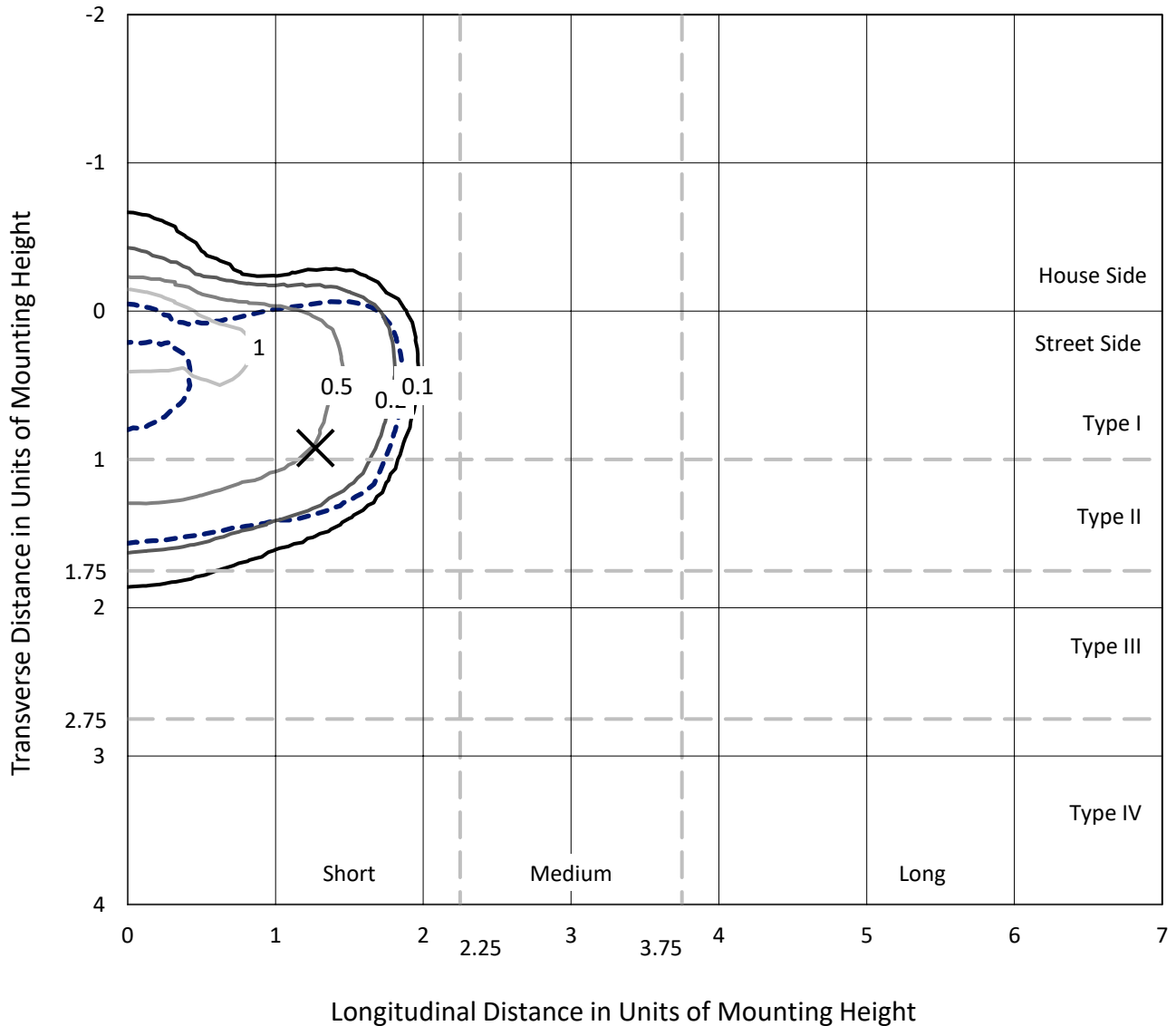
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

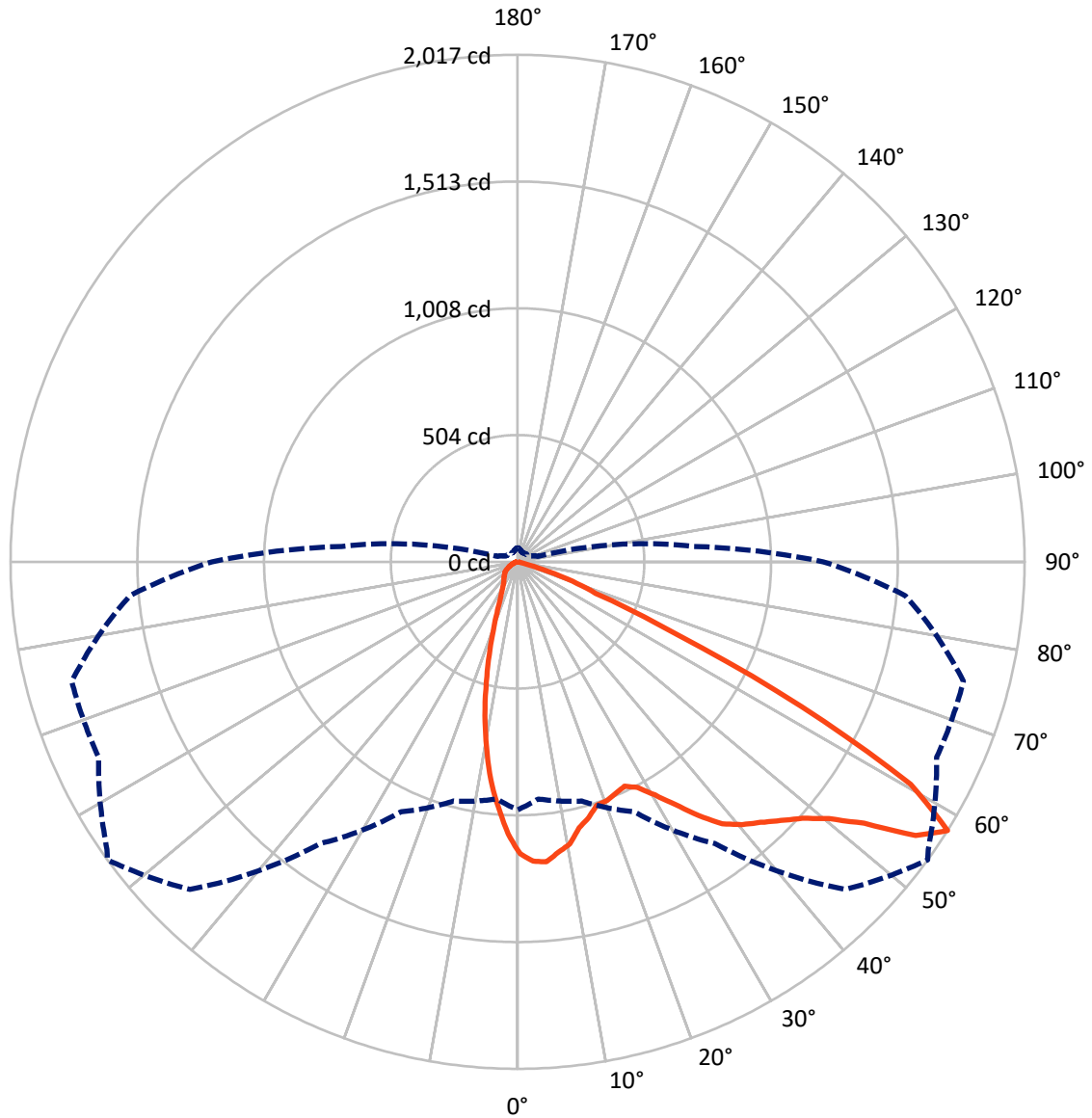
× Max cd
 - - - 1/2 Max cd



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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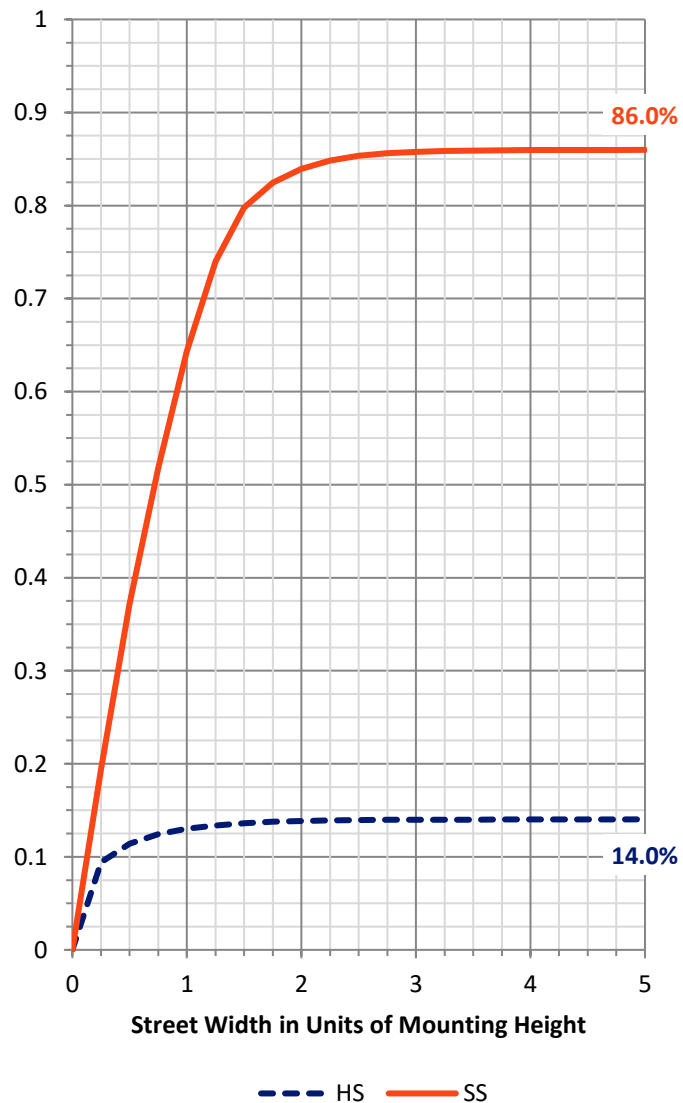
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	372.6	0.0	372.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2263.8	0.0	2263.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	2636.4	0.0	2636.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.7
10°-20°	207.5	7.9
20°-30°	275.0	10.4
30°-40°	399.6	15.2
40°-50°	592.5	22.5
50°-60°	741.0	28.1
60°-70°	292.3	11.1
70°-80°	29.1	1.1
80°-90°	2.3	0.1
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°	2636.4	100.0
0°-180°	2636.4	100.0

Coefficient of Utilization

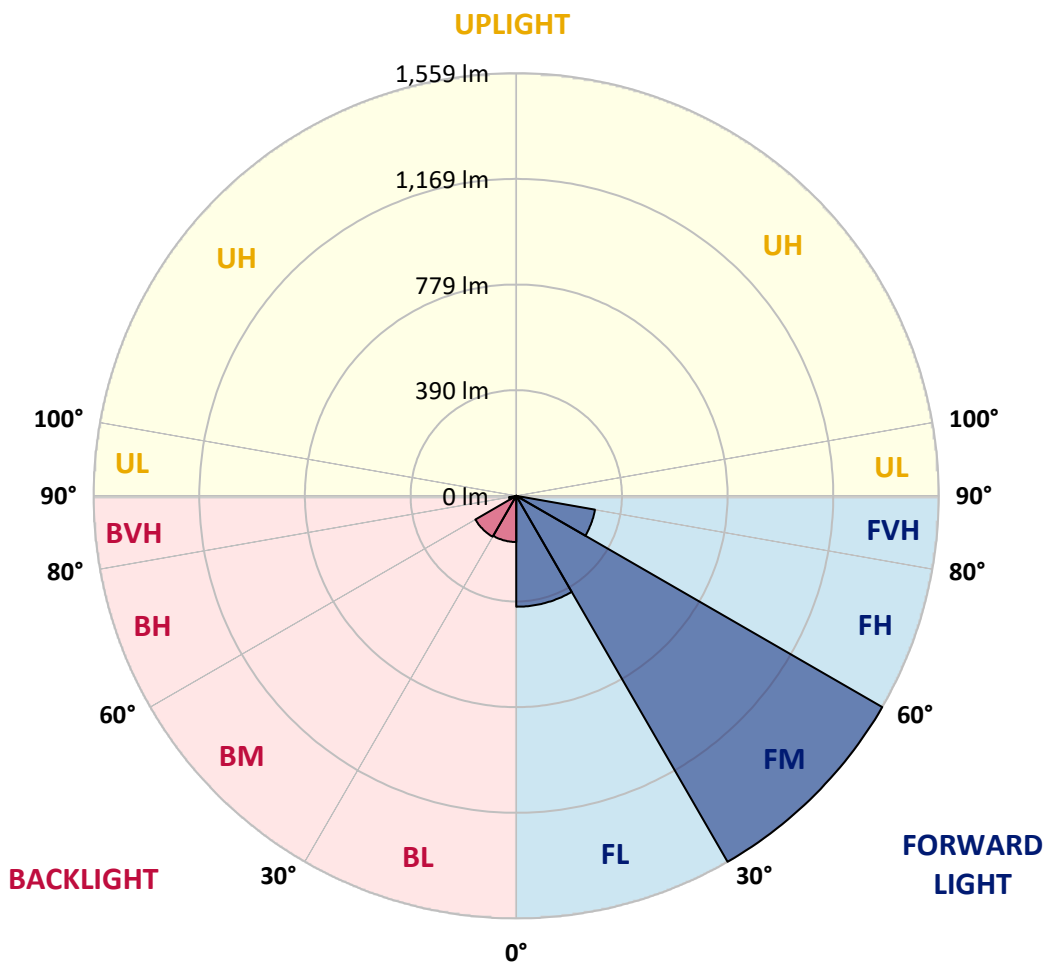


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.2	15.5			
FM (30°-60°)	1558.9	59.1			
FH (60°-80°)	294.7	11.2			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	170.4	6.5	B1/500		
BM (30°-60°)	174.2	6.6	B0/220		
BH (60°-80°)	26.7	1.0	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1229.0	1216.2	1217.3	1212.8	1206.9	1211.4	1192.3	1196.7	1196.2	1170.2	1153.0
5°	1198.1	1211.8	1197.6	1209.4	1198.1	1210.4	1198.6	1189.8	1175.6	1156.4	1124.6
7.5°	1145.7	1132.5	1136.4	1151.1	1153.5	1181.0	1166.3	1177.6	1171.7	1133.9	1090.2
10°	1040.3	1037.3	1057.0	1076.5	1100.6	1129.9	1141.2	1134.9	1130.5	1116.2	1057.9
12.5°	959.4	967.7	967.2	999.6	1040.3	1057.0	1086.3	1085.4	1109.9	1083.4	1027.5
15°	882.4	886.8	907.4	927.5	972.6	1020.2	1056.4	1061.4	1090.8	1072.2	1004.0
17.5°	835.4	829.0	845.2	869.2	915.2	977.5	1017.7	1029.5	1069.7	1065.7	977.0
20°	788.8	788.8	802.0	830.4	872.6	942.7	1014.3	1010.9	1069.7	1058.4	948.1
22.5°	773.1	781.0	784.3	805.9	856.0	916.3	999.6	1005.9	1078.0	1054.9	935.4
25°	794.7	784.3	785.3	802.5	849.6	903.5	988.8	1003.0	1093.2	1072.2	925.0
27.5°	798.1	808.4	811.3	823.1	854.5	907.4	1015.8	1044.7	1131.0	1112.3	928.0
30°	828.0	838.3	837.8	857.9	879.5	939.3	1076.1	1081.9	1208.9	1162.8	946.2
32.5°	864.3	875.1	878.5	902.0	919.2	997.6	1149.6	1164.8	1283.9	1242.2	993.7
35°	909.4	905.5	921.1	944.7	981.4	1082.9	1239.3	1264.8	1364.8	1345.2	1042.7
37.5°	965.8	960.8	976.0	1014.3	1064.3	1183.9	1322.2	1338.9	1423.7	1440.8	1133.4
40°	1005.5	1007.4	1053.5	1105.0	1157.9	1280.0	1374.6	1390.8	1464.8	1530.0	1202.1
42.5°	1071.6	1083.9	1139.3	1202.1	1257.4	1352.1	1417.2	1433.0	1483.9	1601.5	1294.7
45°	1167.7	1162.4	1223.6	1293.8	1355.0	1427.0	1467.7	1462.3	1495.2	1672.6	1353.0
47.5°	1291.2	1292.3	1332.9	1392.7	1456.5	1492.2	1524.1	1505.0	1518.7	1747.7	1431.0
50°	1375.6	1382.9	1415.7	1477.1	1508.9	1563.8	1604.5	1592.8	1588.3	1792.8	1480.0
52.5°	1397.2	1419.2	1436.9	1513.3	1587.8	1674.6	1726.6	1751.6	1673.1	1807.9	1542.3
55°	1234.4	1254.0	1316.3	1421.1	1617.8	1850.2	1921.7	1922.2	1783.9	1875.6	1585.9
57.5°	986.8	947.1	985.3	1096.7	1367.7	1842.8	2016.8	1993.8	1839.3	1835.9	1548.1
60°	682.4	672.6	675.0	719.2	946.6	1465.8	1797.1	1827.1	1693.7	1591.3	1225.6
62.5°	540.7	532.4	521.6	516.7	587.8	913.3	1267.8	1309.9	1184.4	1031.9	726.5
65°	423.5	418.7	420.2	439.7	439.3	518.2	693.2	676.0	541.2	400.0	228.5
67.5°	285.8	293.2	299.0	358.4	388.8	360.8	334.8	325.0	176.0	74.0	50.5
70°	160.8	161.8	168.1	224.0	295.1	279.9	230.9	230.9	87.8	26.9	28.9
72.5°	87.8	84.8	78.9	96.5	131.4	133.3	103.0	89.7	26.0	17.6	16.2
75°	42.7	42.1	36.3	29.9	28.4	23.6	18.2	16.7	11.7	11.3	9.8
77.5°	8.8	8.3	4.4	4.4	4.9	5.4	6.9	6.9	8.3	8.3	6.9
80°	0.0	0.0	0.5	2.0	3.4	4.9	5.9	5.9	6.9	6.9	5.4
82.5°	0.0	0.0	0.5	1.5	3.0	4.4	5.4	5.9	6.9	7.4	5.9
85°	0.0	0.0	0.0	1.0	2.4	3.4	3.0	3.0	2.4	2.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3	1161.3
2.5°	1144.2	1143.2	1120.6	1107.9	1084.8	1064.8	1048.6	1036.8	1036.8	1029.5	1022.6
5°	1111.9	1103.5	1055.5	1024.6	980.9	948.6	926.5	909.4	882.4	889.8	860.8
7.5°	1071.6	1050.6	986.8	939.8	879.5	833.4	786.3	744.6	704.5	686.3	696.1
10°	1028.5	991.7	905.9	831.4	756.5	672.1	617.2	550.5	509.3	506.9	496.1
12.5°	982.9	941.2	836.8	733.9	635.3	533.8	450.1	387.7	359.9	328.9	334.8
15°	948.6	886.8	759.8	635.8	505.0	402.5	318.1	270.1	243.7	236.3	233.8
17.5°	911.3	845.2	681.4	531.4	396.1	289.7	228.9	205.9	195.6	195.6	194.1
20°	872.6	798.1	603.5	434.3	297.1	216.2	183.4	176.0	175.5	175.0	175.0
22.5°	847.1	744.2	532.9	345.1	224.0	173.0	159.3	156.4	158.3	164.2	164.2
25°	820.1	692.2	454.9	266.2	173.5	148.5	140.7	142.7	147.6	152.9	151.0
27.5°	792.7	658.3	381.4	208.8	142.2	129.9	127.0	131.4	136.8	141.6	140.2
30°	786.3	622.1	311.8	158.3	122.1	113.2	115.2	119.1	124.5	126.5	128.4
32.5°	796.2	593.7	255.4	129.9	106.4	103.9	103.9	105.9	109.3	113.8	112.3
35°	824.1	577.5	201.9	112.8	97.6	95.1	94.6	96.5	98.5	100.0	98.5
37.5°	866.7	564.8	165.2	100.0	91.7	87.8	86.8	86.3	88.2	88.7	89.7
40°	921.1	571.6	140.2	92.2	85.8	81.4	78.5	78.5	78.5	79.9	80.4
42.5°	980.0	580.9	121.1	87.8	80.4	75.0	72.0	71.1	72.0	74.0	73.5
45°	1041.7	599.1	108.8	80.9	75.5	68.7	64.7	63.7	66.2	70.1	69.6
47.5°	1099.6	625.1	99.5	76.5	70.6	64.2	59.4	58.3	62.7	68.1	68.7
50°	1157.4	670.2	96.1	73.1	67.2	59.8	55.4	54.4	59.4	66.2	67.7
52.5°	1224.1	718.6	93.6	68.7	63.3	56.4	51.4	50.5	55.9	64.7	65.2
55°	1267.8	759.8	91.7	60.8	55.9	51.0	47.1	46.6	52.5	60.3	62.2
57.5°	1216.8	702.5	84.8	52.9	47.5	45.1	41.7	41.7	46.6	53.9	55.4
60°	922.6	462.3	60.3	42.7	40.2	38.8	37.3	37.3	41.2	46.6	47.1
62.5°	540.3	249.1	38.8	34.3	34.3	32.8	30.4	30.4	34.3	37.3	37.7
65°	160.3	79.9	31.4	29.4	28.9	26.5	24.0	23.6	26.5	28.0	27.5
67.5°	46.1	36.8	26.0	24.5	24.0	20.1	18.6	18.2	18.6	17.6	17.1
70°	27.5	25.0	20.1	20.6	18.2	14.7	13.2	12.8	11.7	10.3	9.3
72.5°	15.2	15.2	14.7	15.7	12.8	9.8	8.3	6.9	5.4	4.4	3.9
75°	9.3	9.8	10.3	10.8	8.3	6.3	5.4	3.4	2.0	1.0	1.0
77.5°	6.3	6.9	7.4	7.8	6.9	5.9	4.4	2.4	0.5	0.0	0.0
80°	4.9	5.4	6.3	6.9	7.4	7.8	5.9	2.4	0.5	0.0	0.0
82.5°	5.4	5.9	7.4	6.9	6.9	6.9	5.4	2.4	0.5	0.0	0.0
85°	1.0	1.5	2.4	2.4	3.4	4.4	3.4	1.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)