

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: P450228

Luminaire Tested: **GALN-SA1A-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450228
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-SA1A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 4177 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

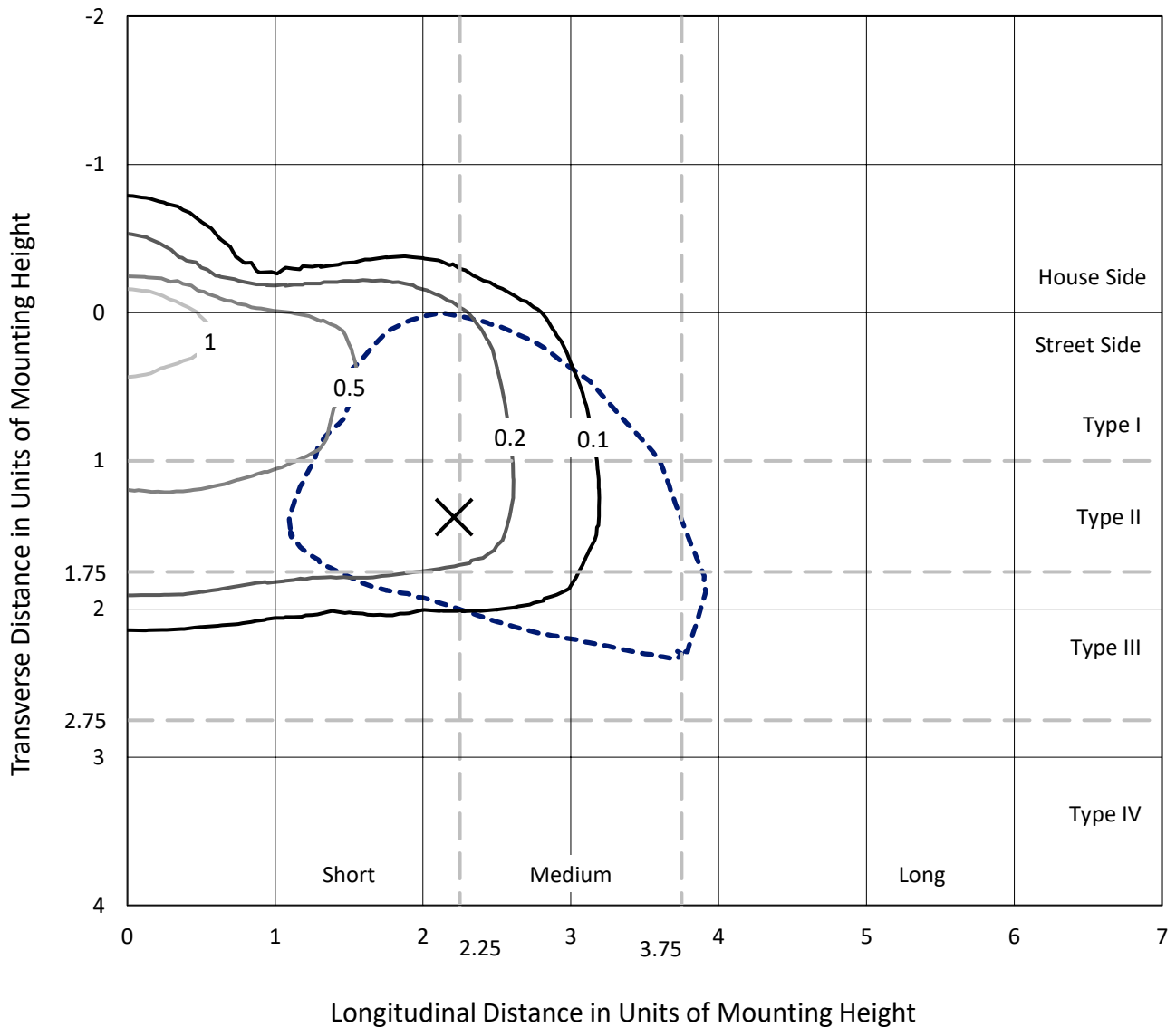
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

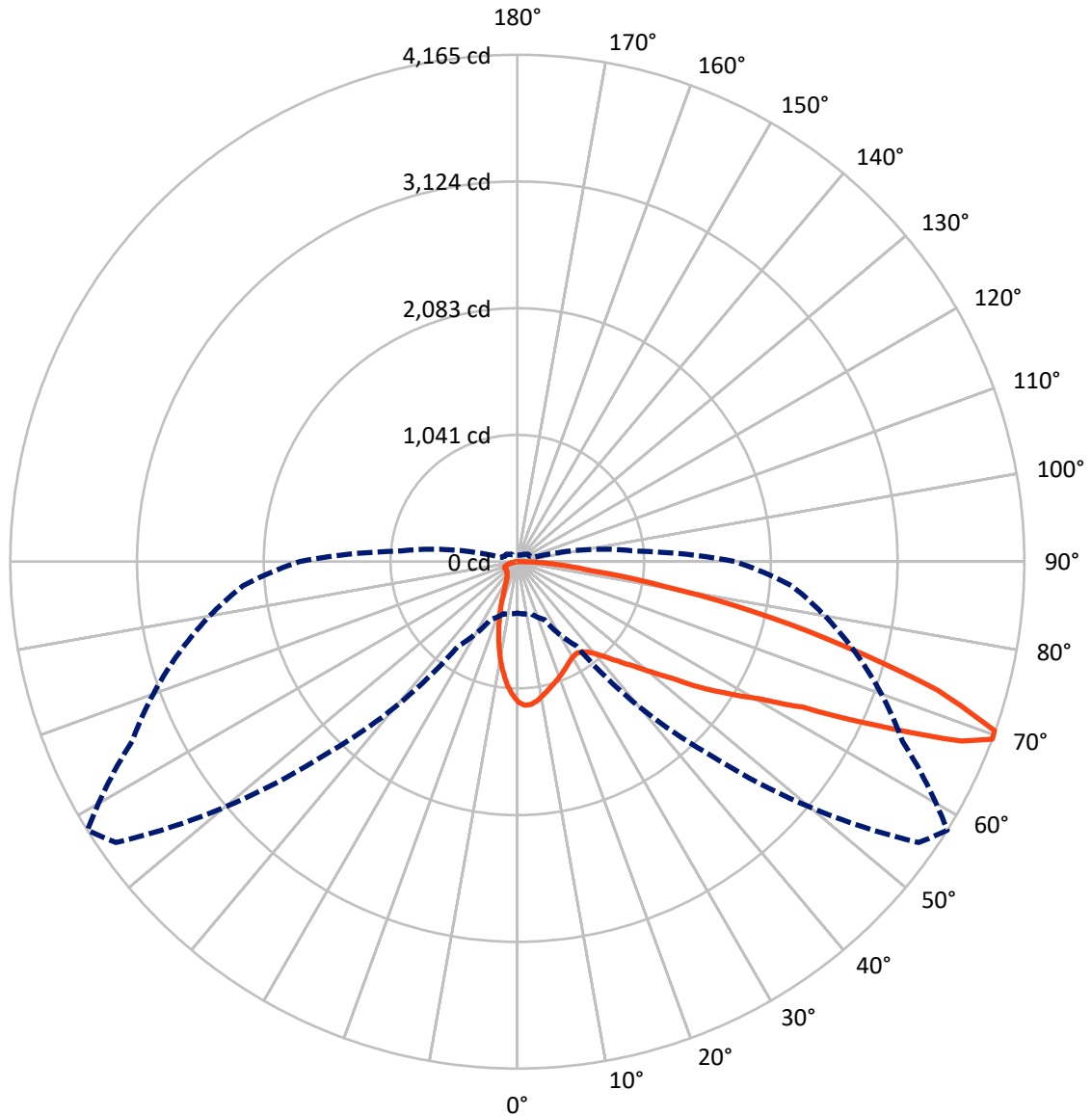
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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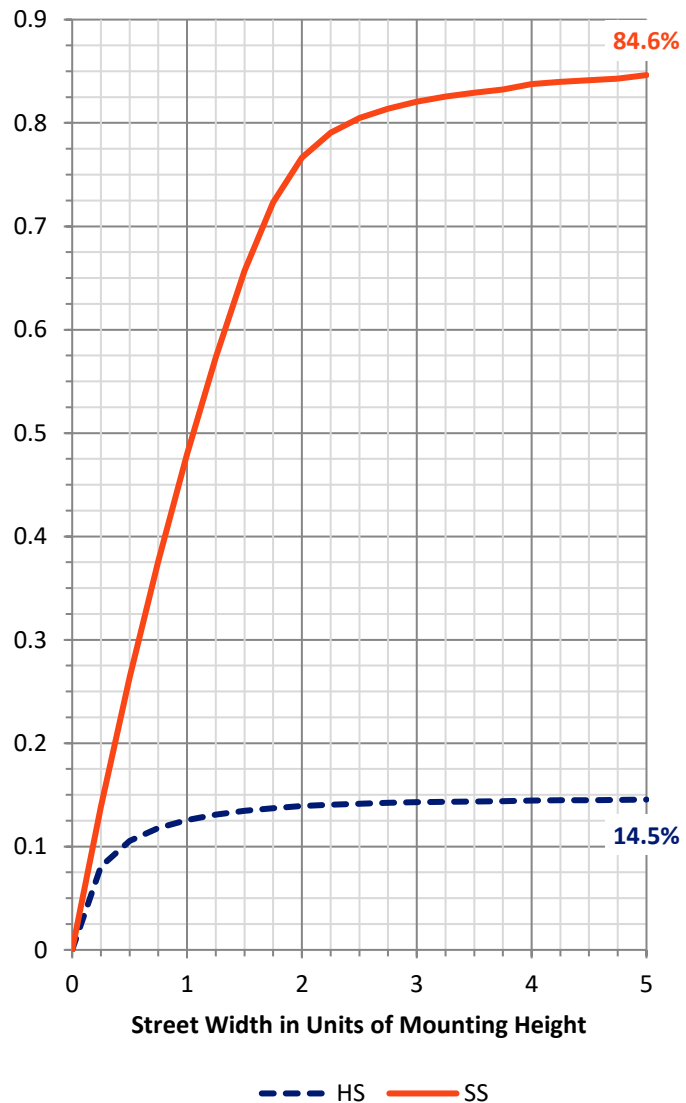
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.1	0.0	612.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3564.9	0.0	3564.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	4177.0	0.0	4177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	2.3
10°-20°	215.2	5.2
20°-30°	278.1	6.7
30°-40°	361.2	8.6
40°-50°	525.1	12.6
50°-60°	838.0	20.1
60°-70°	1119.4	26.8
70°-80°	645.3	15.4
80°-90°	96.6	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°	4177.0	100.0
0°-180°	4177.0	100.0

Coefficient of Utilization



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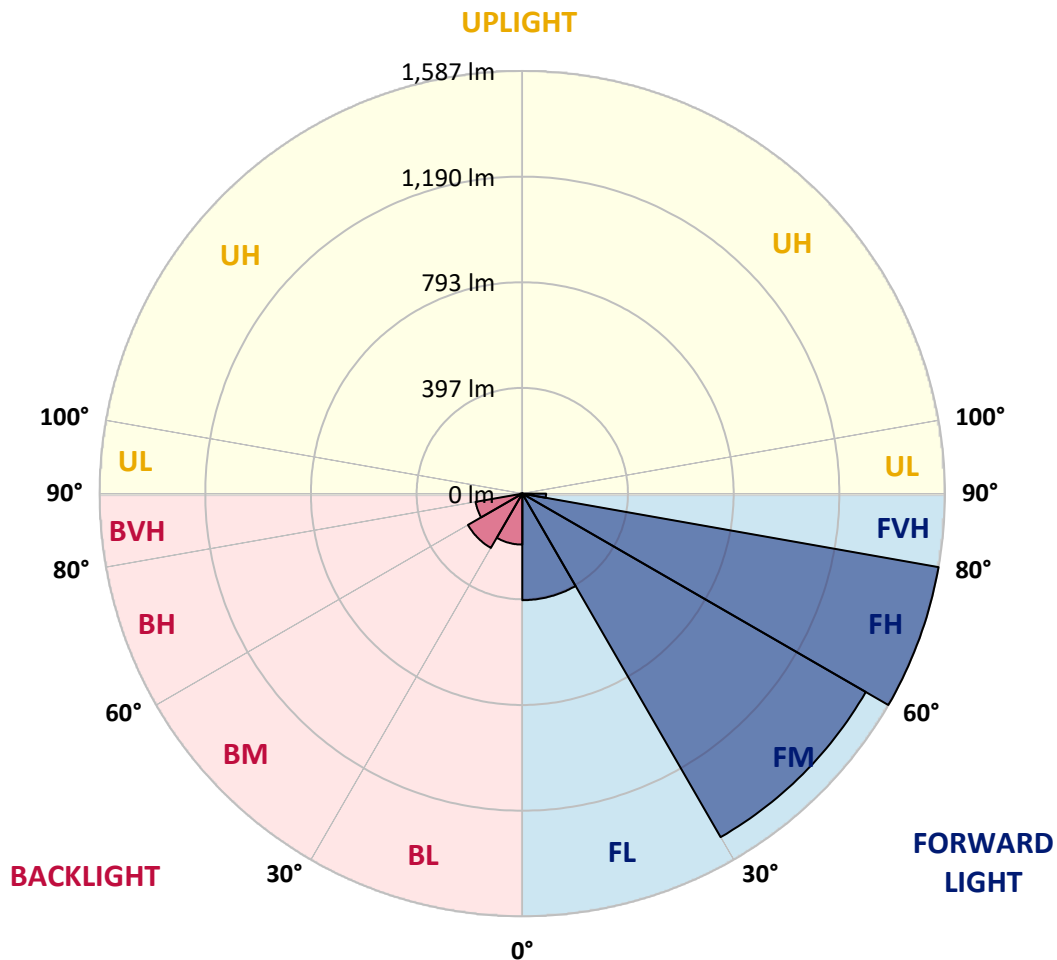
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.0	9.6			
FM	(30°-60°)	1488.9	35.6			
FH	(60°-80°)	1586.7	38.0			G1/1800
FVH	(80°-90°)	89.2	2.1			G1/100
BL	(0°-30°)	191.3	4.6	B1/500		
BM	(30°-60°)	235.4	5.6	B1/1000		
BH	(60°-80°)	178.0	4.3	B1/500		G1/500
BVH	(80°-90°)	7.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1197.1	1200.4	1199.5	1198.3	1196.4	1191.3	1182.9	1181.5	1176.2	1164.8	1150.6
5°	1178.7	1181.5	1181.8	1183.4	1185.7	1184.8	1178.7	1178.0	1170.1	1154.7	1131.0
7.5°	1115.6	1119.3	1127.5	1136.6	1144.7	1152.4	1154.3	1155.4	1150.6	1132.8	1101.2
10°	1044.6	1048.3	1052.0	1065.5	1085.6	1104.7	1120.5	1122.6	1123.8	1107.5	1068.8
12.5°	965.8	973.5	981.4	1001.5	1028.3	1058.3	1086.3	1090.7	1098.6	1086.3	1040.8
15°	899.0	906.9	918.3	936.2	968.6	1011.9	1051.3	1058.5	1074.1	1067.9	1014.7
17.5°	852.6	855.4	863.3	883.8	918.8	964.4	1017.1	1031.5	1056.4	1054.8	992.4
20°	816.0	819.5	824.4	837.0	873.3	921.6	985.2	1003.8	1037.6	1043.2	970.2
22.5°	800.7	803.2	802.5	809.3	834.0	882.4	952.8	974.9	1020.8	1035.2	949.7
25°	801.6	803.9	800.4	798.8	813.5	847.9	919.0	947.2	1007.3	1029.9	931.1
27.5°	817.2	818.8	812.3	805.8	806.9	826.5	891.0	922.3	995.9	1032.2	915.5
30°	838.2	841.2	837.0	829.1	820.5	821.4	873.1	903.9	990.5	1040.4	908.0
32.5°	865.2	868.0	866.1	859.8	848.6	836.3	868.7	897.1	991.0	1056.9	906.4
35°	893.6	899.2	902.2	901.8	892.7	871.2	886.2	909.7	1002.2	1084.6	916.0
37.5°	925.8	930.4	943.5	951.8	943.5	918.5	925.5	941.8	1026.9	1124.7	936.9
40°	957.0	964.0	983.1	1009.1	1005.9	984.0	985.6	996.3	1070.4	1184.3	977.9
42.5°	989.6	998.0	1031.3	1069.9	1077.6	1060.6	1065.1	1074.6	1132.4	1267.0	1048.3
45°	1031.5	1041.5	1082.5	1130.8	1161.0	1150.6	1163.1	1167.8	1215.3	1374.7	1141.0
47.5°	1085.6	1097.2	1147.8	1207.9	1250.7	1260.3	1282.2	1279.4	1318.0	1502.1	1261.2
50°	1176.6	1183.2	1230.9	1292.2	1351.1	1394.2	1418.0	1422.4	1445.5	1626.0	1395.6
52.5°	1285.0	1290.8	1325.3	1378.8	1452.7	1544.0	1602.7	1588.3	1593.9	1777.0	1552.9
55°	1406.8	1416.6	1438.5	1474.1	1569.9	1704.3	1822.2	1825.6	1763.7	1921.4	1703.6
57.5°	1501.1	1517.7	1555.2	1606.0	1727.3	1882.5	2040.9	2043.2	1964.0	2075.6	1869.9
60°	1453.6	1473.2	1558.9	1682.6	1934.0	2193.5	2302.3	2289.0	2159.0	2251.3	2072.8
62.5°	1248.6	1252.1	1376.7	1570.1	1997.6	2609.5	2691.3	2635.2	2419.2	2474.0	2279.0
65°	808.1	830.9	929.7	1200.6	1788.6	2840.4	3372.9	3243.2	2784.0	2726.7	2451.6
67.5°	510.2	504.3	545.3	685.6	1230.2	2637.0	3954.6	3934.1	3261.1	2886.3	2410.4
69°	423.0	429.6	443.5	525.5	846.5	2251.5	4023.3	4165.0	3492.4	2873.7	2260.6
70°	383.7	386.7	401.4	465.9	653.2	1885.7	3910.6	4158.7	3583.3	2821.1	2152.0
72.5°	304.5	304.2	329.4	387.6	488.3	1076.5	3211.0	3610.5	3481.7	2576.0	1778.1
75°	231.3	235.0	262.8	328.0	449.8	588.2	2240.8	2780.5	2780.8	2034.6	1109.6
77.5°	166.8	169.1	201.5	275.3	423.7	476.9	1492.5	1994.3	1874.8	932.3	348.7
80°	109.3	110.7	135.3	218.0	382.0	449.8	885.0	1220.7	884.3	247.4	115.3
82.5°	59.9	66.9	82.7	141.2	306.6	415.6	537.9	617.8	331.7	110.2	60.1
85°	30.1	31.9	46.6	82.5	200.3	343.8	374.6	354.3	171.2	54.7	31.2
87.5°	8.9	11.2	19.3	31.9	81.3	179.1	208.5	187.1	65.9	19.8	6.5
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°	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1144.7	1140.5	1121.9	1105.1	1089.8	1073.4	1059.7	1047.6	1048.8	1049.0	1036.6
5°	1118.6	1109.1	1073.7	1040.6	1012.6	977.2	947.0	927.4	917.6	904.6	909.2
7.5°	1083.2	1064.8	1015.7	960.7	909.2	863.3	813.5	779.2	757.3	736.1	738.9
10°	1046.7	1017.1	945.6	872.9	806.2	732.9	669.3	614.8	574.2	559.1	549.1
12.5°	1009.1	970.2	879.4	782.7	690.7	602.9	512.7	454.3	409.5	385.8	388.8
15°	974.9	927.6	810.4	692.6	573.1	468.5	378.5	322.9	291.7	285.1	288.9
17.5°	943.2	881.3	745.9	605.0	465.4	351.3	284.4	253.0	240.4	236.9	236.7
20°	910.6	841.9	673.5	511.3	362.7	272.3	233.4	218.7	216.4	217.8	218.0
22.5°	877.5	793.2	598.9	418.4	288.9	222.7	204.1	200.1	202.0	205.2	205.7
25°	847.0	750.3	527.2	336.8	230.6	195.7	186.6	186.6	190.8	195.7	195.9
27.5°	821.9	708.9	455.7	267.4	193.1	176.1	173.1	174.7	180.5	184.3	184.5
30°	801.1	670.2	388.1	214.3	169.8	160.5	159.8	162.6	166.8	170.3	170.5
32.5°	785.5	636.2	325.0	180.1	153.7	148.6	148.4	150.5	152.8	153.7	154.7
35°	779.5	608.0	267.2	158.4	143.0	139.8	139.8	139.5	140.5	140.9	141.4
37.5°	784.4	586.3	222.5	144.4	135.1	132.8	131.4	130.0	129.5	129.5	129.8
40°	805.1	574.9	189.2	135.3	129.5	126.0	123.5	121.8	120.2	120.7	121.1
42.5°	849.1	577.0	166.6	129.3	124.6	119.7	116.0	114.1	113.0	114.4	114.1
45°	919.2	598.0	152.1	125.1	119.7	113.4	110.0	108.1	108.1	110.2	110.9
47.5°	1017.3	638.1	144.4	121.8	116.0	108.6	105.1	103.7	104.1	107.6	107.9
50°	1137.0	707.7	143.0	120.2	114.1	105.1	101.1	99.7	100.9	104.6	105.1
52.5°	1269.1	797.4	149.8	120.4	112.5	103.0	97.8	95.7	96.9	99.9	100.9
55°	1425.7	909.7	167.3	121.4	110.2	101.8	95.5	90.9	92.2	94.3	94.6
57.5°	1585.5	1051.3	198.0	121.6	108.3	99.7	91.6	85.5	85.5	86.9	87.6
60°	1780.7	1205.5	238.5	121.8	108.6	96.7	86.2	79.4	78.5	79.2	79.4
62.5°	1974.5	1334.6	245.3	121.1	110.9	93.6	80.4	73.4	71.7	71.5	71.1
65°	2060.0	1310.6	201.0	117.9	113.4	91.8	75.7	67.6	64.8	63.8	63.8
67.5°	1920.7	1108.6	151.2	113.4	111.8	89.9	71.3	62.7	59.4	57.5	57.5
69°	1789.8	986.1	135.8	110.4	107.6	86.9	68.5	60.1	56.1	54.0	53.3
70°	1688.7	901.8	129.3	107.9	103.7	83.4	66.4	58.2	53.8	51.5	51.0
72.5°	1347.6	707.5	113.2	98.1	88.3	70.1	58.9	52.4	48.2	45.7	45.0
75°	776.7	383.4	93.9	85.3	71.1	54.5	49.9	45.7	42.4	40.1	39.4
77.5°	239.0	148.2	68.0	67.3	52.2	42.2	39.8	38.2	35.9	33.3	32.8
80°	100.6	75.5	46.1	45.4	34.7	29.4	28.7	28.4	27.5	25.4	24.7
82.5°	55.2	42.6	32.1	28.0	21.0	17.0	17.7	17.9	17.2	15.1	13.7
85°	27.0	23.3	15.6	12.6	9.6	6.1	5.8	7.0	6.5	4.7	5.1
87.5°	5.4	6.5	4.2	1.9	0.9	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)