

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: P450660

Luminaire Tested: **GALN-SA1C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4869 lumens
Efficiency: N/A
Efficacy: 85.4 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

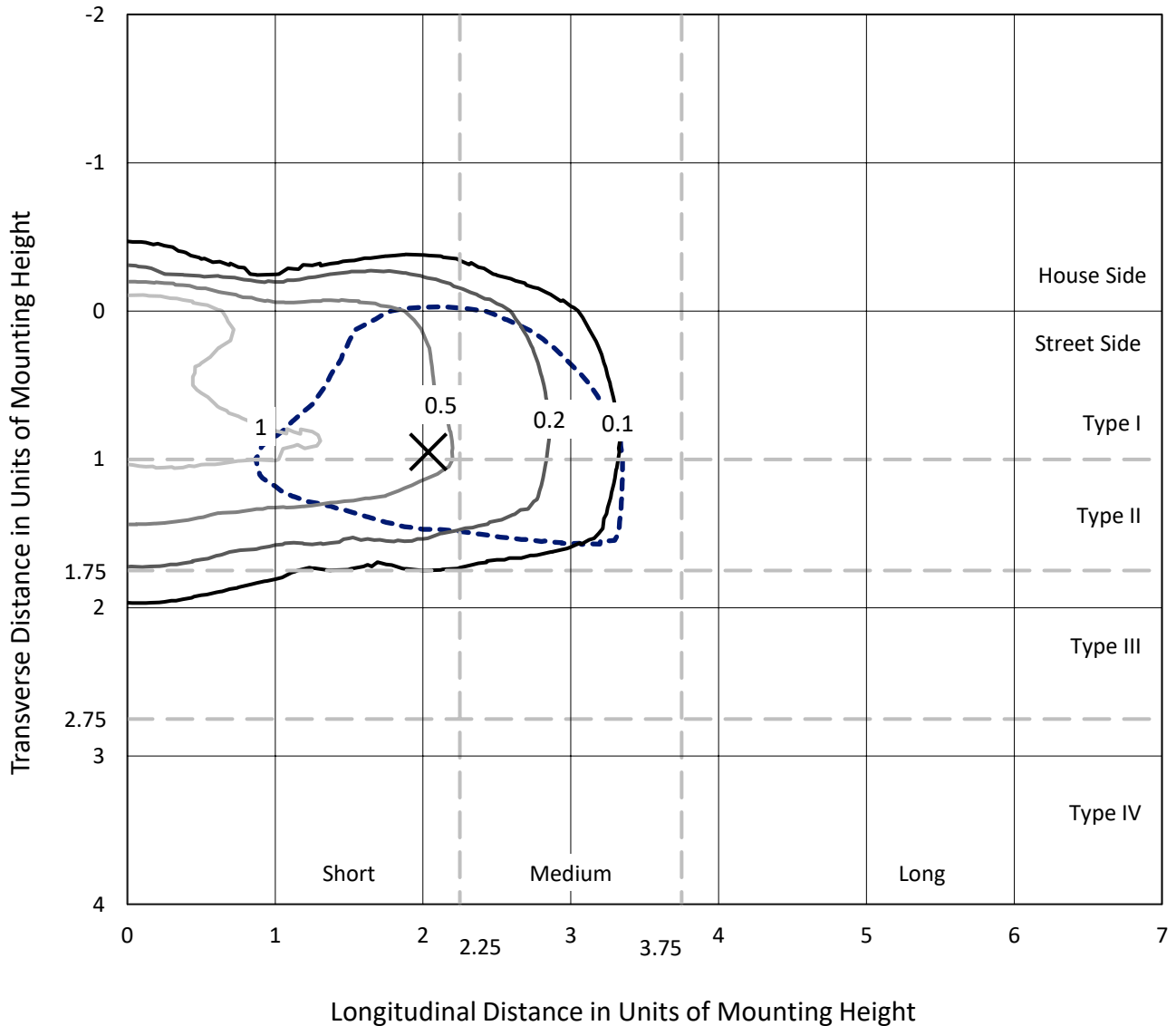
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

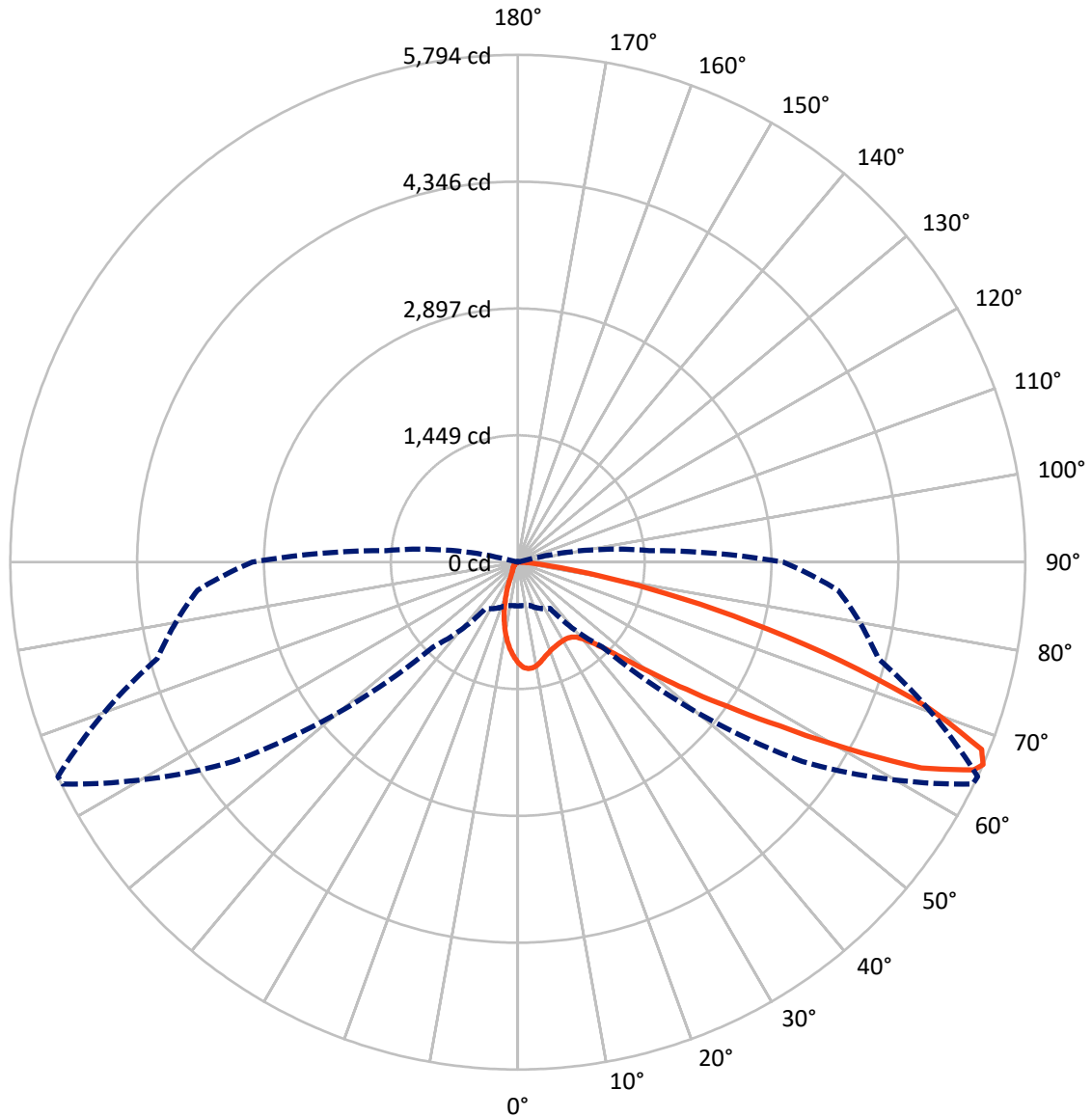
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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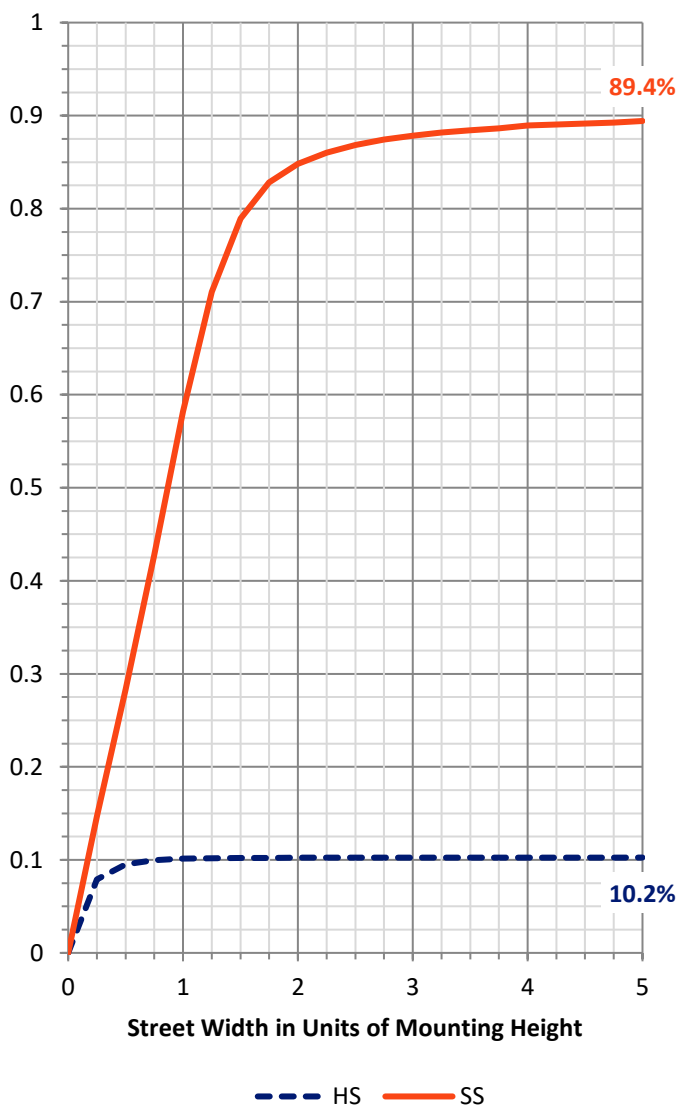
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.5	0.0	503.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4365.5	0.0	4365.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	4869.0	0.0	4869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.9
10°-20°	205.7	4.2
20°-30°	294.7	6.1
30°-40°	430.5	8.8
40°-50°	721.8	14.8
50°-60°	1204.7	24.7
60°-70°	1278.7	26.3
70°-80°	579.1	11.9
80°-90°	59.3	1.2
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°	4869.0	100.0
0°-180°	4869.0	100.0

Coefficient of Utilization



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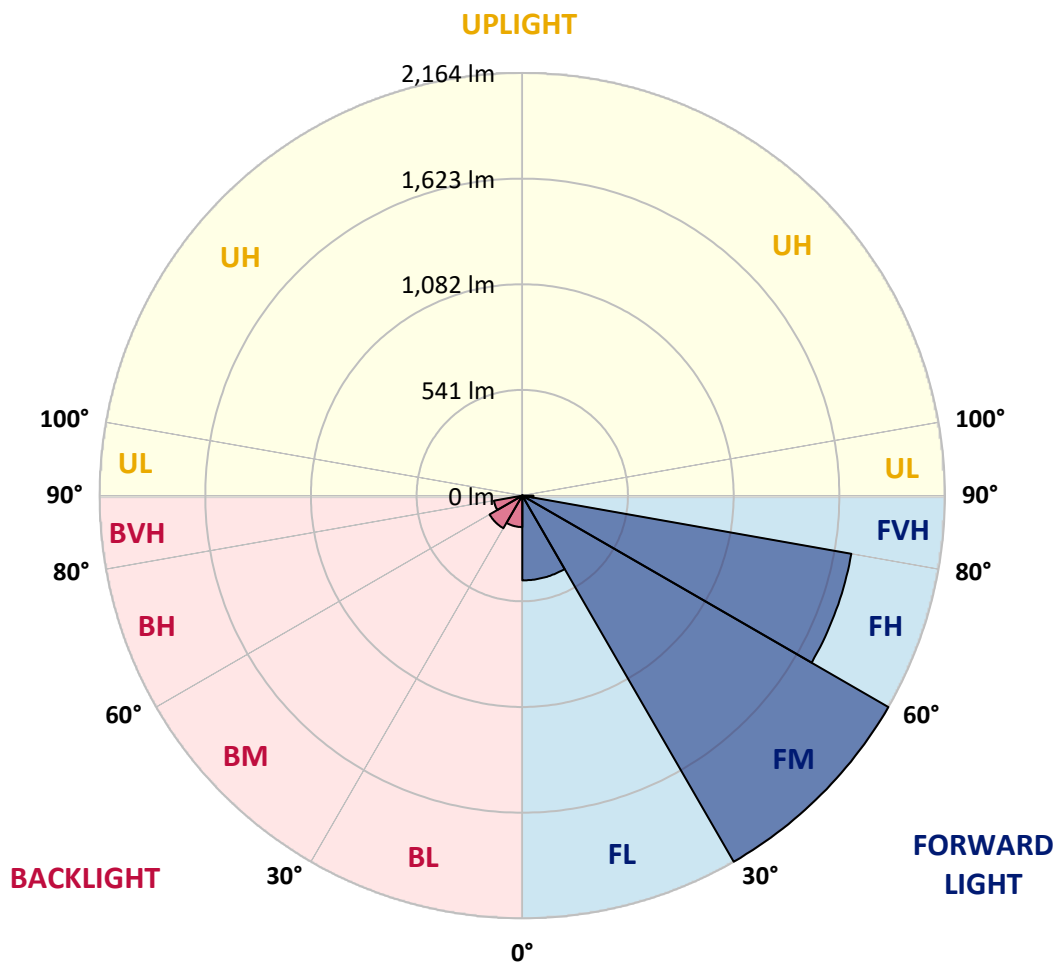
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.8	8.9			
FM (30°-60°)	2163.9	44.4			
FH (60°-80°)	1710.4	35.1			G1/1800
FVH (80°-90°)	57.4	1.2			G1/100
BL (0°-30°)	161.1	3.3	B1/500		
BM (30°-60°)	193.1	4.0	B0/220		
BH (60°-80°)	147.5	3.0	B1/500		G1/500
BVH (80°-90°)	1.9	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6
2.5°	1216.8	1218.1	1219.7	1222.0	1223.7	1218.7	1211.8	1203.9	1202.3	1185.5	1165.1
5°	1151.7	1153.6	1168.1	1176.0	1193.8	1209.9	1220.1	1221.4	1220.7	1204.9	1172.4
7.5°	1058.9	1064.5	1078.7	1092.5	1125.7	1156.3	1192.4	1217.8	1219.4	1215.1	1174.7
10°	983.6	987.2	994.5	1021.8	1049.4	1096.1	1146.7	1194.4	1198.4	1215.5	1172.7
12.5°	924.7	930.0	938.9	959.9	993.2	1037.2	1094.8	1158.9	1167.1	1209.2	1167.1
15°	883.6	886.3	895.2	915.9	948.1	988.9	1047.1	1121.7	1129.0	1201.0	1166.1
17.5°	864.2	867.2	873.4	889.9	916.5	954.3	1011.2	1091.8	1101.0	1195.7	1169.7
20°	869.5	872.1	872.5	881.0	899.1	931.0	984.9	1063.9	1075.7	1192.4	1175.7
22.5°	899.4	899.8	895.8	891.9	898.1	921.1	968.8	1046.1	1058.3	1191.8	1182.6
25°	944.2	945.1	938.6	924.7	912.3	924.1	965.2	1034.6	1045.4	1190.1	1186.8
27.5°	1006.0	1005.6	1003.7	980.7	945.1	937.2	968.2	1028.3	1037.5	1185.5	1188.5
30°	1092.5	1089.8	1085.6	1059.6	1005.3	969.1	980.7	1024.4	1032.9	1179.0	1184.2
32.5°	1177.6	1187.5	1186.8	1162.2	1094.4	1026.0	1006.6	1029.7	1035.9	1174.7	1178.0
35°	1277.0	1276.6	1301.9	1292.7	1213.5	1098.7	1051.0	1047.1	1052.0	1177.6	1175.0
37.5°	1369.0	1377.6	1417.0	1426.6	1354.2	1201.3	1113.8	1084.6	1086.2	1197.7	1182.2
40°	1483.8	1500.2	1559.1	1591.0	1527.2	1353.6	1206.6	1153.3	1153.6	1247.0	1209.5
42.5°	1631.8	1657.8	1712.7	1766.0	1731.8	1533.8	1345.7	1262.2	1261.5	1333.8	1272.0
45°	1811.7	1829.8	1892.2	1976.8	1955.1	1785.4	1548.3	1430.9	1422.3	1476.2	1382.8
47.5°	1966.9	1991.6	2055.0	2151.4	2250.0	2092.5	1790.3	1662.7	1657.1	1702.8	1572.9
50°	2034.6	2056.3	2123.1	2258.3	2497.3	2495.7	2150.7	2001.1	1991.6	2016.2	1866.9
52.5°	1960.3	1980.7	2048.1	2216.5	2613.8	2987.0	2673.0	2425.7	2414.1	2382.6	2218.1
55°	1705.8	1722.6	1822.2	2015.6	2569.0	3314.6	3392.5	2950.2	2905.5	2782.8	2615.7
57.5°	1358.2	1349.6	1411.5	1636.1	2306.6	3424.4	4131.1	3603.6	3523.7	3128.8	2952.2
60°	941.2	967.5	992.5	1140.5	1734.4	3234.0	4590.5	4425.1	4319.9	3469.1	3274.4
62.5°	691.9	709.3	725.8	794.2	1090.5	2582.2	4671.8	5269.0	5175.6	3830.5	3581.9
65°	547.2	548.5	555.1	622.5	718.6	1679.1	4281.4	5744.8	5720.8	4178.5	3706.6
66°	498.5	498.9	509.1	581.4	644.9	1367.4	3968.7	5781.0	5794.1	4262.0	3670.1
67.5°	435.7	434.4	449.2	522.6	587.3	985.9	3408.9	5634.3	5712.3	4326.1	3538.8
70°	337.7	336.1	354.2	438.4	541.0	657.7	2265.8	4837.8	4963.4	4194.9	3131.1
72.5°	224.9	226.3	257.2	346.0	516.3	579.1	1363.1	3680.2	3857.8	3464.2	2463.1
75°	131.2	133.5	168.7	257.2	448.2	552.2	771.5	2624.3	2737.7	2392.1	1534.5
77.5°	68.7	69.7	94.4	169.7	343.7	512.7	514.0	1676.5	1729.8	1162.5	607.4
80°	36.5	35.5	50.6	102.3	236.4	450.2	417.0	887.6	922.8	345.3	153.6
82.5°	13.8	15.1	27.0	67.1	139.8	323.3	359.1	392.3	380.2	76.0	64.5
85°	2.6	3.3	11.5	39.8	70.4	135.2	264.7	192.4	178.2	28.6	37.2
87.5°	0.3	0.7	3.3	9.5	10.2	45.7	78.3	53.3	46.0	10.5	15.5
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°	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6	1154.6
2.5°	1155.3	1146.4	1116.8	1087.5	1057.6	1030.6	1012.2	982.3	974.7	963.9	957.6
5°	1153.0	1132.3	1075.4	1013.2	955.3	892.8	845.2	799.1	774.5	762.0	757.4
7.5°	1146.4	1113.5	1024.7	927.4	834.6	741.2	660.0	598.2	558.4	531.1	512.7
10°	1133.2	1087.9	965.9	832.0	691.9	568.6	465.7	387.4	326.9	307.8	308.5
12.5°	1119.8	1059.3	900.1	726.1	552.5	396.9	287.8	225.9	197.0	187.4	185.5
15°	1107.3	1032.0	835.6	623.5	411.4	257.2	185.5	163.8	155.9	154.2	153.9
17.5°	1100.7	1006.6	766.9	506.1	287.1	174.6	148.6	142.7	140.4	138.8	138.1
20°	1095.1	984.6	701.1	396.3	196.3	143.1	133.2	127.6	123.7	122.0	121.0
22.5°	1091.1	961.9	633.1	306.8	150.3	126.9	118.1	110.8	105.2	103.3	101.9
25°	1085.2	936.9	564.3	224.3	126.6	112.8	102.6	94.1	86.8	83.2	82.5
27.5°	1076.7	908.6	489.0	166.1	113.1	100.3	87.8	77.3	70.0	66.1	66.4
30°	1062.9	879.0	413.7	131.9	102.3	87.5	74.0	63.8	56.9	53.9	53.6
32.5°	1046.4	843.2	344.6	113.1	92.4	76.0	61.8	52.9	47.7	45.4	45.1
35°	1031.0	807.0	274.3	101.6	82.2	65.4	52.0	44.4	40.4	38.5	38.8
37.5°	1022.4	774.8	213.8	92.4	74.0	56.2	44.7	38.1	34.5	32.9	32.6
40°	1028.0	748.5	170.0	84.2	64.8	48.3	38.5	32.9	29.3	27.0	27.0
42.5°	1054.3	737.0	137.1	76.3	56.2	41.8	33.5	28.3	24.3	22.0	22.4
45°	1134.6	749.1	114.8	69.1	48.3	36.2	28.9	23.3	19.7	18.1	17.8
47.5°	1267.7	794.8	99.3	61.5	41.4	30.9	24.3	19.4	15.8	14.5	14.1
50°	1500.6	889.2	87.8	53.9	35.2	26.3	20.1	15.5	12.5	11.2	11.2
52.5°	1820.9	1095.1	79.6	45.4	29.6	22.4	16.4	12.5	9.9	8.9	8.6
55°	2155.7	1312.1	75.3	38.1	24.7	18.4	13.2	9.9	7.6	6.6	6.2
57.5°	2477.6	1482.5	70.4	30.9	19.7	14.1	10.2	7.6	5.3	4.6	4.3
60°	2786.4	1620.3	59.9	24.7	15.5	10.2	7.6	5.3	3.6	3.0	3.0
62.5°	3062.7	1700.5	47.0	19.7	11.8	7.2	4.9	3.9	2.6	2.0	2.0
65°	3094.9	1596.3	35.5	15.1	8.6	4.6	3.0	3.0	2.0	1.3	1.3
66°	3030.1	1507.8	31.2	13.8	7.6	3.9	2.6	2.3	1.6	1.0	1.0
67.5°	2885.4	1356.9	27.0	11.8	6.2	3.0	2.0	2.0	1.3	0.7	0.7
70°	2493.1	1108.3	21.4	8.9	4.6	2.3	1.3	1.3	1.0	0.7	0.7
72.5°	1900.1	827.4	17.4	6.6	3.3	1.6	1.0	1.0	1.0	0.7	0.7
75°	1146.1	445.6	13.5	4.9	3.0	1.3	0.7	1.0	1.3	1.0	0.7
77.5°	422.3	151.6	10.5	3.9	2.3	1.3	0.7	0.7	1.3	1.0	1.0
80°	103.6	39.5	7.6	3.3	2.3	1.3	0.7	0.7	1.3	1.3	1.3
82.5°	48.0	16.8	5.3	3.0	2.3	1.3	0.7	0.7	1.0	1.3	1.3
85°	27.6	7.9	4.3	3.3	2.3	1.3	0.7	0.7	1.0	1.3	1.3
87.5°	11.2	3.9	3.9	3.3	2.6	1.6	0.7	0.7	0.7	1.0	1.0
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)