

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: P650681

Luminaire Tested: **GALN-SA1C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650681
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-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4896.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

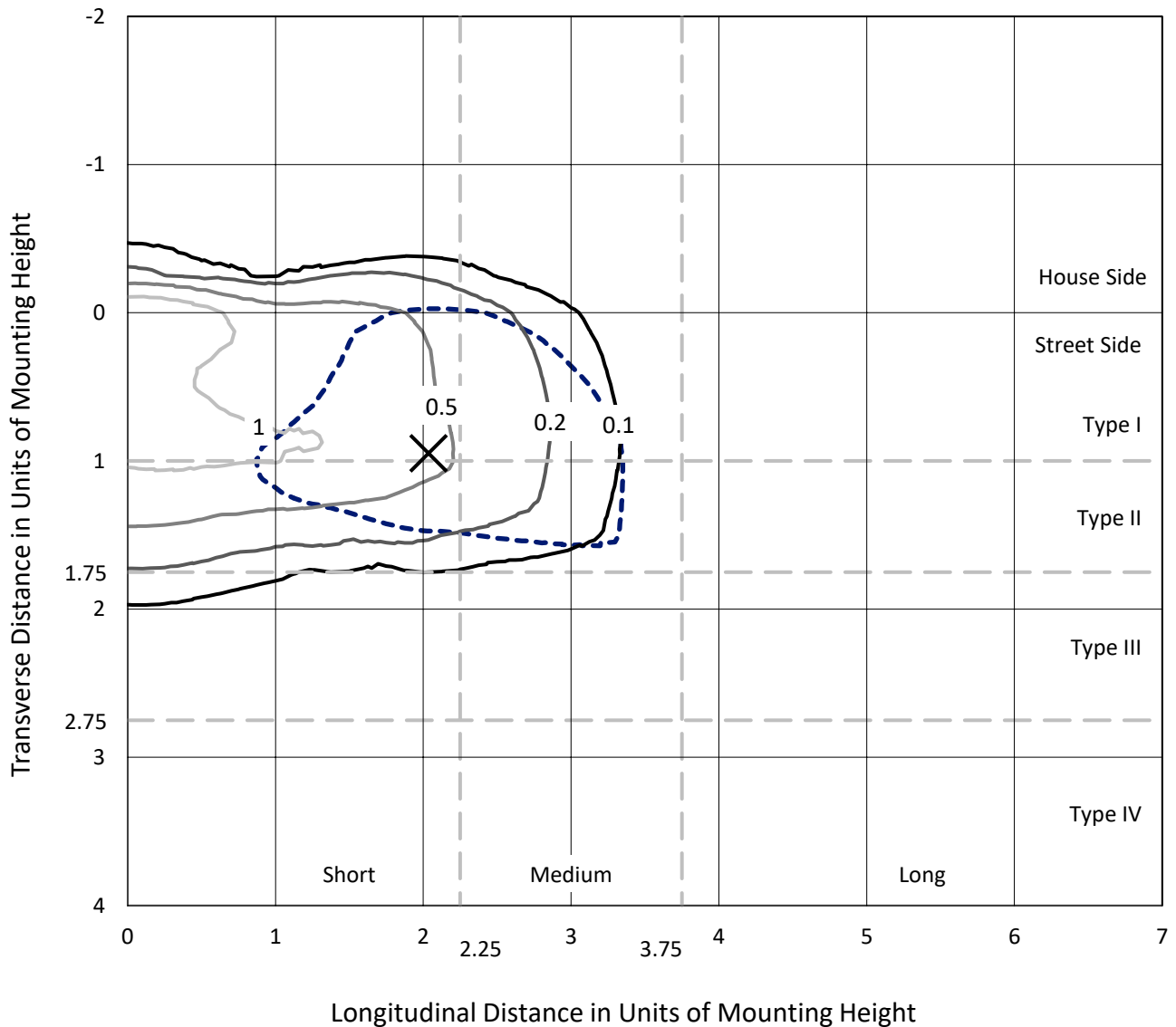
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

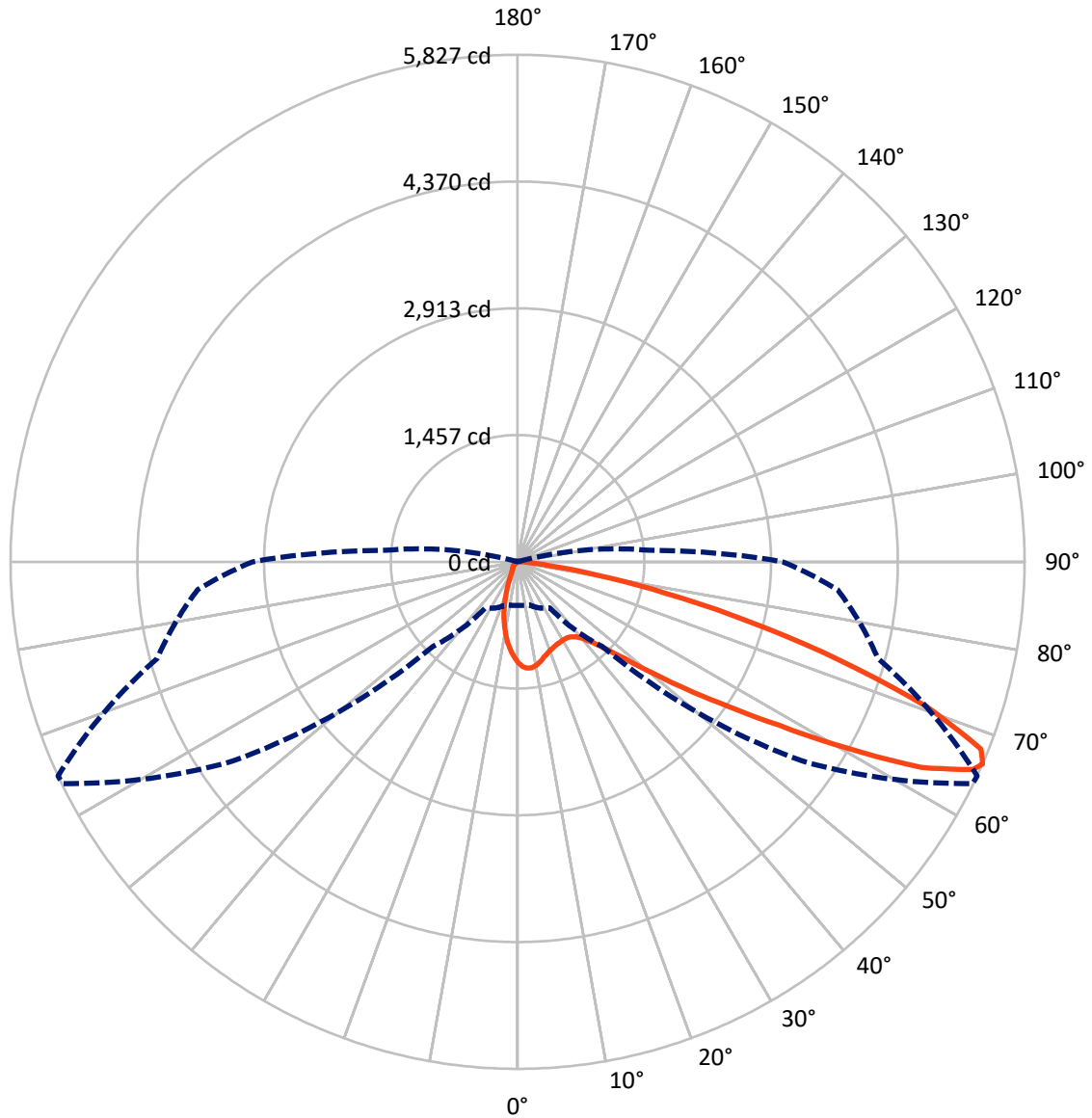
✕ Max cd
 - - - 1/2 Max cd



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

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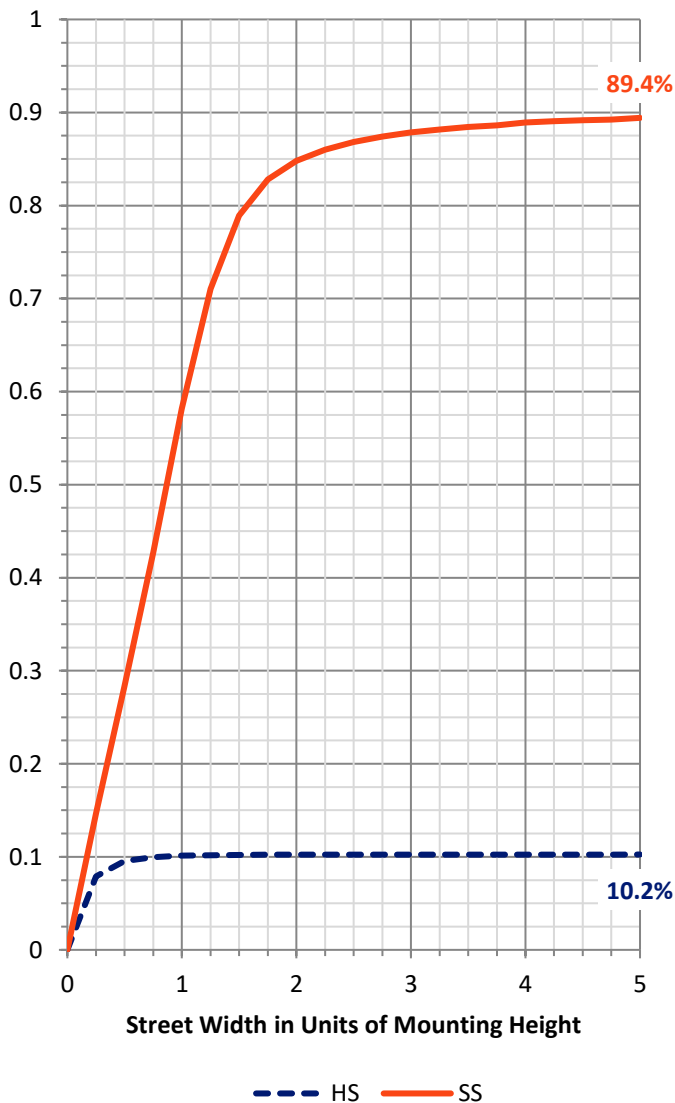
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.4	0.0	506.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4390.0	0.0	4390.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	4896.3	0.0	4896.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.9
10°-20°	206.9	4.2
20°-30°	296.4	6.1
30°-40°	432.9	8.8
40°-50°	725.9	14.8
50°-60°	1211.4	24.7
60°-70°	1285.9	26.3
70°-80°	582.4	11.9
80°-90°	59.6	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°	4896.3	100.0
0°-180°	4896.3	100.0

Coefficient of Utilization

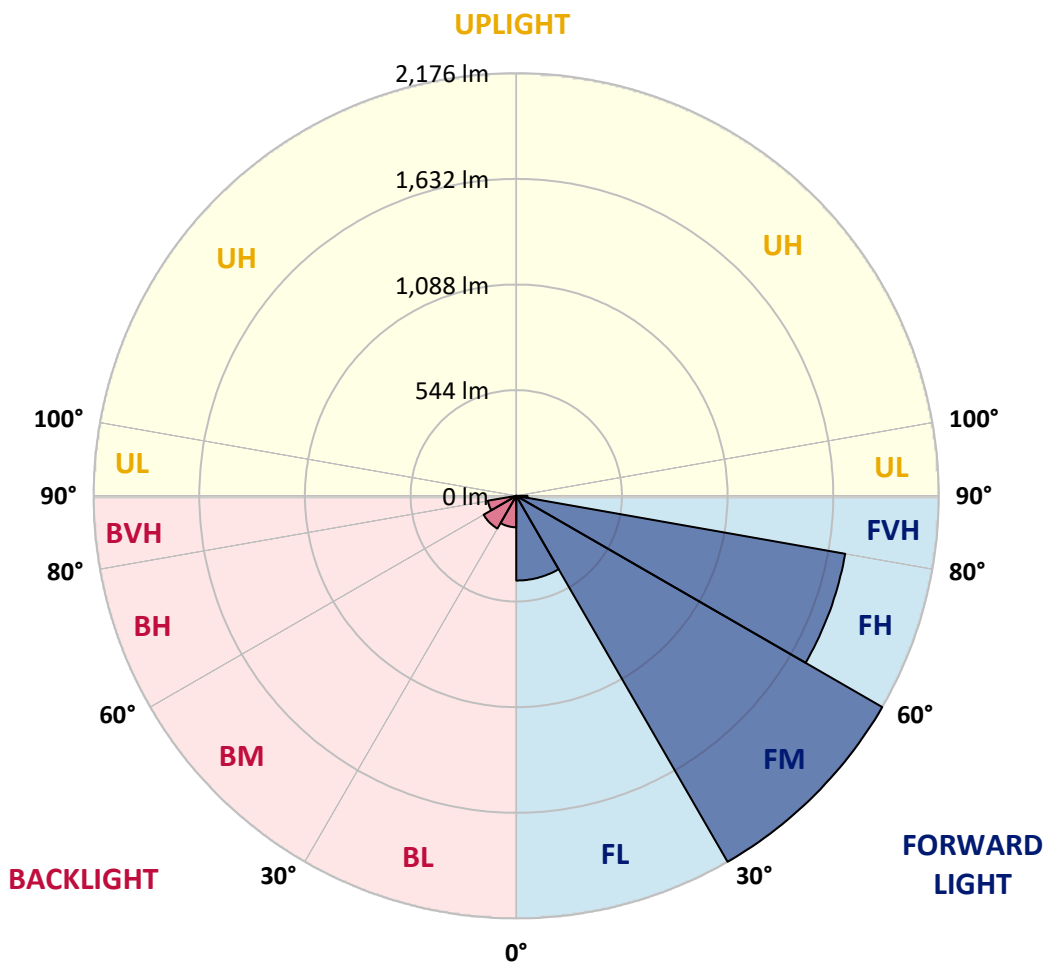


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.3	8.9			
FM (30°-60°)	2176.0	44.4			
FH (60°-80°)	1720.0	35.1			G1/1800
FVH (80°-90°)	57.7	1.2			G1/100
BL (0°-30°)	162.0	3.3	B1/500		
BM (30°-60°)	194.2	4.0	B0/220		
BH (60°-80°)	148.3	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°	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1
2.5°	1223.6	1224.9	1226.6	1228.9	1230.6	1225.6	1218.6	1210.7	1209.0	1192.2	1171.7
5°	1158.1	1160.1	1174.6	1182.6	1200.4	1216.7	1226.9	1228.2	1227.5	1211.7	1178.9
7.5°	1064.9	1070.5	1084.7	1098.6	1132.0	1162.8	1199.1	1224.6	1226.3	1222.0	1181.3
10°	989.1	992.8	1000.0	1027.4	1055.3	1102.2	1153.2	1201.1	1205.1	1222.3	1179.3
12.5°	929.9	935.2	944.2	965.3	998.7	1043.0	1100.9	1165.4	1173.7	1216.0	1173.7
15°	888.6	891.2	900.2	921.0	953.4	994.4	1052.9	1128.0	1135.3	1207.8	1172.7
17.5°	869.1	872.0	878.3	894.9	921.7	959.7	1016.9	1097.9	1107.2	1202.5	1176.3
20°	874.4	877.0	877.3	885.9	904.2	936.2	990.4	1069.8	1081.7	1199.1	1182.3
22.5°	904.5	904.8	900.8	896.8	903.1	926.3	974.2	1051.9	1064.2	1198.4	1189.2
25°	949.4	950.4	943.9	929.9	917.4	929.3	970.6	1040.4	1051.3	1196.8	1193.5
27.5°	1011.6	1011.3	1009.3	986.2	950.4	942.5	973.6	1034.1	1043.3	1192.2	1195.1
30°	1098.6	1095.9	1091.6	1065.5	1011.0	974.6	986.2	1030.1	1038.7	1185.6	1190.9
32.5°	1184.2	1194.1	1193.5	1168.7	1100.6	1031.8	1012.3	1035.4	1041.7	1181.3	1184.5
35°	1284.1	1283.8	1309.3	1300.0	1220.3	1104.9	1056.9	1052.9	1057.9	1184.2	1181.6
37.5°	1376.7	1385.3	1425.0	1434.6	1361.8	1208.0	1120.1	1090.7	1092.3	1204.4	1188.8
40°	1492.1	1508.7	1567.9	1599.9	1535.8	1361.2	1213.3	1159.7	1160.1	1254.0	1216.3
42.5°	1641.0	1667.0	1722.3	1775.9	1741.5	1542.4	1353.3	1269.2	1268.6	1341.3	1279.2
45°	1821.9	1840.0	1902.8	1987.9	1966.0	1795.4	1556.9	1438.9	1430.3	1484.5	1390.6
47.5°	1977.9	2002.8	2066.6	2163.5	2262.6	2104.3	1800.3	1672.0	1666.4	1712.4	1581.8
50°	2046.1	2067.9	2135.0	2271.0	2511.3	2509.7	2162.8	2012.3	2002.8	2027.6	1877.4
52.5°	1971.3	1991.8	2059.6	2228.9	2628.4	3003.8	2687.9	2439.2	2427.7	2395.9	2230.6
55°	1715.4	1732.2	1832.5	2026.9	2583.5	3333.1	3411.5	2966.7	2921.7	2798.4	2630.4
57.5°	1365.8	1357.2	1419.4	1645.2	2319.6	3443.6	4154.3	3623.9	3543.5	3146.3	2968.7
60°	946.5	973.0	998.1	1146.9	1744.1	3252.1	4616.2	4449.9	4344.1	3488.6	3292.8
62.5°	695.8	713.3	729.8	798.6	1096.6	2596.7	4697.9	5298.5	5204.6	3852.0	3602.0
65°	550.3	551.6	558.3	626.0	722.6	1688.6	4305.4	5777.0	5752.9	4201.9	3727.3
66°	501.3	501.7	511.9	584.7	648.5	1375.0	3990.9	5813.4	5826.6	4285.9	3690.6
67.5°	438.2	436.8	451.7	525.5	590.6	991.5	3428.1	5665.9	5744.3	4350.4	3558.7
70°	339.6	338.0	356.2	440.9	544.0	661.4	2278.5	4864.9	4991.3	4218.5	3148.6
72.5°	226.2	227.5	258.6	347.9	519.2	582.4	1370.7	3700.9	3879.4	3483.6	2477.0
75°	132.0	134.2	169.6	258.6	450.8	555.2	775.8	2639.0	2753.1	2405.5	1543.1
77.5°	69.1	70.1	94.9	170.6	345.6	515.5	516.9	1686.0	1739.5	1169.0	610.8
80°	36.7	35.7	51.0	102.9	237.8	452.7	419.3	892.6	928.0	347.2	154.4
82.5°	13.9	15.2	27.1	67.4	140.5	325.0	361.1	394.5	382.3	76.4	64.8
85°	2.6	3.3	11.6	40.0	70.8	135.9	266.2	193.4	179.2	28.8	37.3
87.5°	0.3	0.7	3.3	9.6	10.3	46.0	78.7	53.6	46.3	10.6	15.6
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°	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1	1161.1
2.5°	1161.8	1152.8	1123.1	1093.6	1063.5	1036.4	1017.9	987.8	980.2	969.3	963.0
5°	1159.4	1138.6	1081.4	1018.9	960.7	897.9	849.9	803.6	778.8	766.2	761.6
7.5°	1152.8	1119.8	1030.5	932.6	839.3	745.4	663.7	601.6	561.5	534.1	515.5
10°	1139.6	1094.0	971.3	836.7	695.8	571.8	468.3	389.6	328.7	309.6	310.2
12.5°	1126.0	1065.2	905.2	730.2	555.6	399.1	289.4	227.2	198.1	188.5	186.5
15°	1113.5	1037.7	840.3	627.0	413.7	258.6	186.5	164.7	156.8	155.1	154.7
17.5°	1106.8	1012.3	771.2	509.0	288.7	175.6	149.4	143.6	141.2	139.5	138.9
20°	1101.2	990.1	705.1	398.5	197.5	143.9	134.0	128.3	124.4	122.7	121.7
22.5°	1097.3	967.3	636.6	308.6	151.1	127.7	118.7	111.4	105.8	103.9	102.5
25°	1091.3	942.2	567.5	225.6	127.3	113.5	103.2	94.6	87.3	83.7	83.0
27.5°	1082.7	913.7	491.7	167.0	113.8	100.8	88.3	77.7	70.5	66.4	66.8
30°	1068.8	884.0	416.0	132.6	102.9	88.0	74.4	64.2	57.2	54.2	53.9
32.5°	1052.3	847.9	346.6	113.8	92.9	76.4	62.1	53.2	47.9	45.7	45.3
35°	1036.8	811.6	275.8	102.2	82.7	65.9	52.2	44.7	40.7	38.7	39.0
37.5°	1028.1	779.1	215.0	92.9	74.4	56.5	45.0	38.3	34.7	33.1	32.7
40°	1033.8	752.7	171.0	84.7	65.2	48.6	38.7	33.1	29.4	27.1	27.1
42.5°	1060.2	741.1	137.9	76.7	56.5	42.0	33.7	28.4	24.5	22.1	22.5
45°	1140.9	753.4	115.4	69.5	48.6	36.4	29.1	23.5	19.8	18.2	17.8
47.5°	1274.9	799.3	99.9	61.8	41.6	31.1	24.5	19.5	15.9	14.5	14.2
50°	1509.0	894.2	88.3	54.2	35.4	26.5	20.2	15.6	12.5	11.3	11.3
52.5°	1831.1	1101.2	80.1	45.7	29.8	22.5	16.6	12.5	9.9	8.9	8.6
55°	2167.8	1319.5	75.7	38.3	24.8	18.5	13.2	9.9	7.6	6.6	6.3
57.5°	2491.5	1490.8	70.8	31.1	19.8	14.2	10.3	7.6	5.3	4.6	4.3
60°	2802.0	1629.4	60.2	24.8	15.6	10.3	7.6	5.3	3.6	2.9	2.9
62.5°	3079.8	1710.1	47.3	19.8	11.9	7.3	5.0	4.0	2.6	2.0	2.0
65°	3112.2	1605.2	35.7	15.2	8.6	4.6	2.9	2.9	2.0	1.3	1.3
66°	3047.1	1516.2	31.5	13.9	7.6	4.0	2.6	2.4	1.7	1.0	1.0
67.5°	2901.6	1364.4	27.1	11.9	6.3	2.9	2.0	2.0	1.3	0.7	0.7
70°	2507.0	1114.5	21.5	8.9	4.6	2.4	1.3	1.3	1.0	0.7	0.7
72.5°	1910.8	832.1	17.5	6.6	3.3	1.7	1.0	1.0	1.0	0.7	0.7
75°	1152.5	448.1	13.5	5.0	2.9	1.3	0.7	1.0	1.3	1.0	0.7
77.5°	424.6	152.5	10.6	4.0	2.4	1.3	0.7	0.7	1.3	1.0	1.0
80°	104.2	39.7	7.6	3.3	2.4	1.3	0.7	0.7	1.3	1.3	1.3
82.5°	48.3	16.9	5.3	2.9	2.4	1.3	0.7	0.7	1.0	1.3	1.3
85°	27.8	7.9	4.3	3.3	2.4	1.3	0.7	0.7	1.0	1.3	1.3
87.5°	11.3	4.0	4.0	3.3	2.6	1.7	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)