

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385826

Luminaire Tested: GAW-SA1B-830-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-830-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

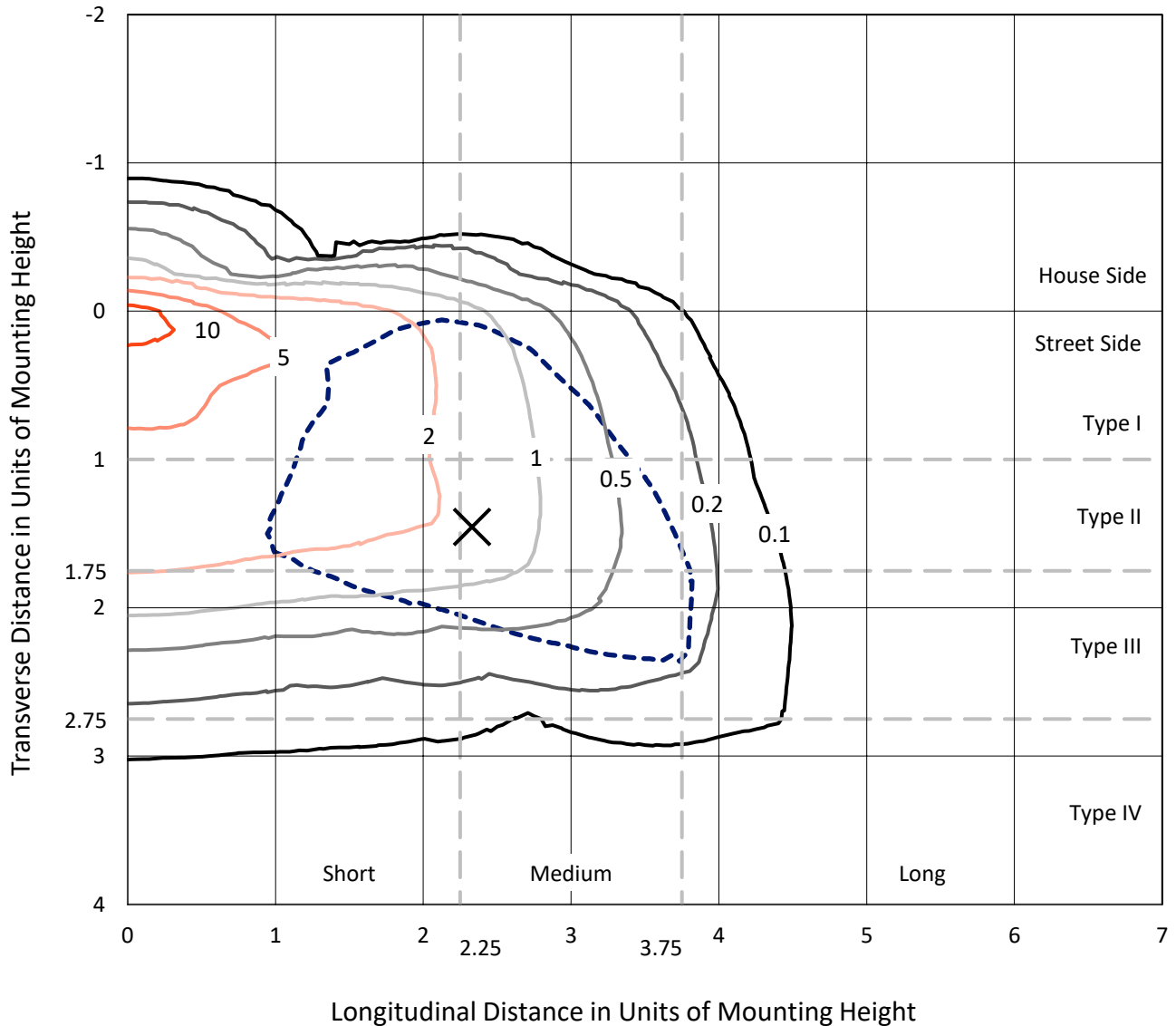
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

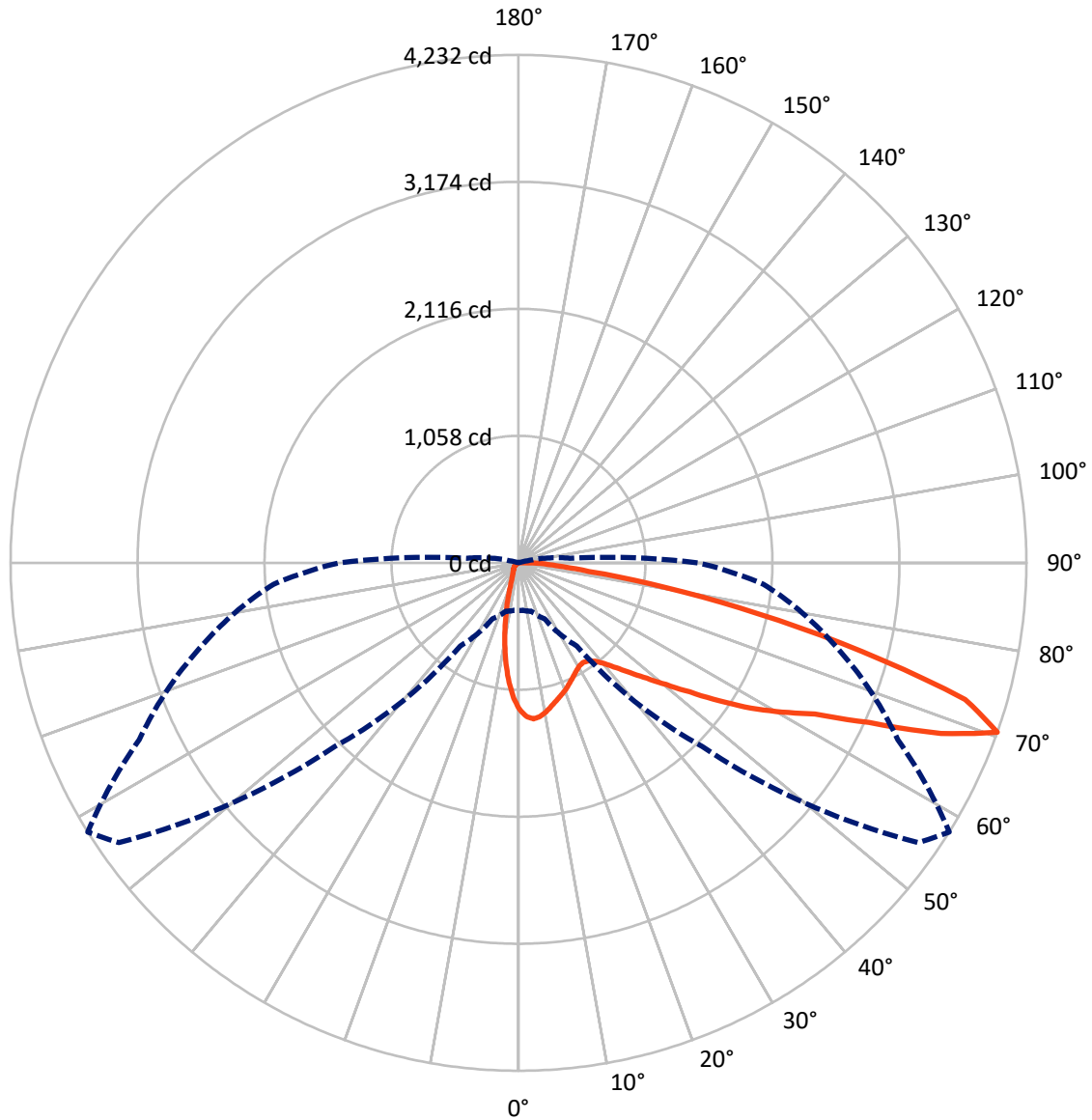
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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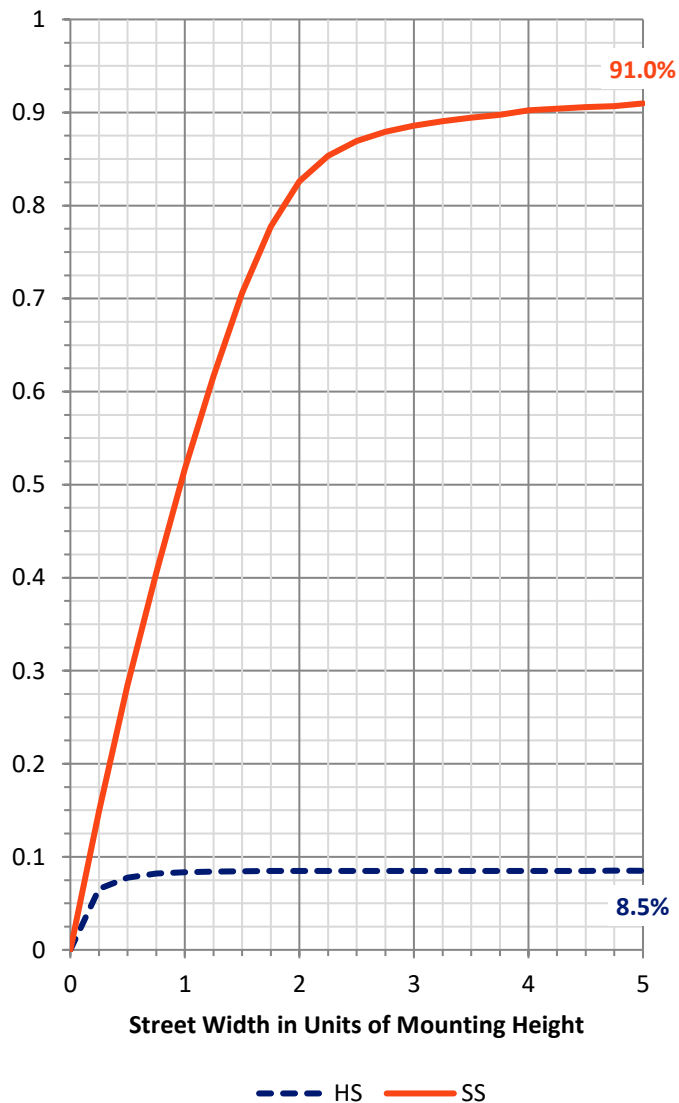
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	354.6	0.0	354.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	3788.5	0.0	3788.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	4143.0	0.0	4143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.4
10°-20°	210.0	5.1
20°-30°	276.1	6.7
30°-40°	365.7	8.8
40°-50°	546.6	13.2
50°-60°	875.6	21.1
60°-70°	1103.8	26.6
70°-80°	595.4	14.4
80°-90°	69.7	1.7
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°	4143.0	100.0
0°-180°	4143.0	100.0

Coefficient of Utilization

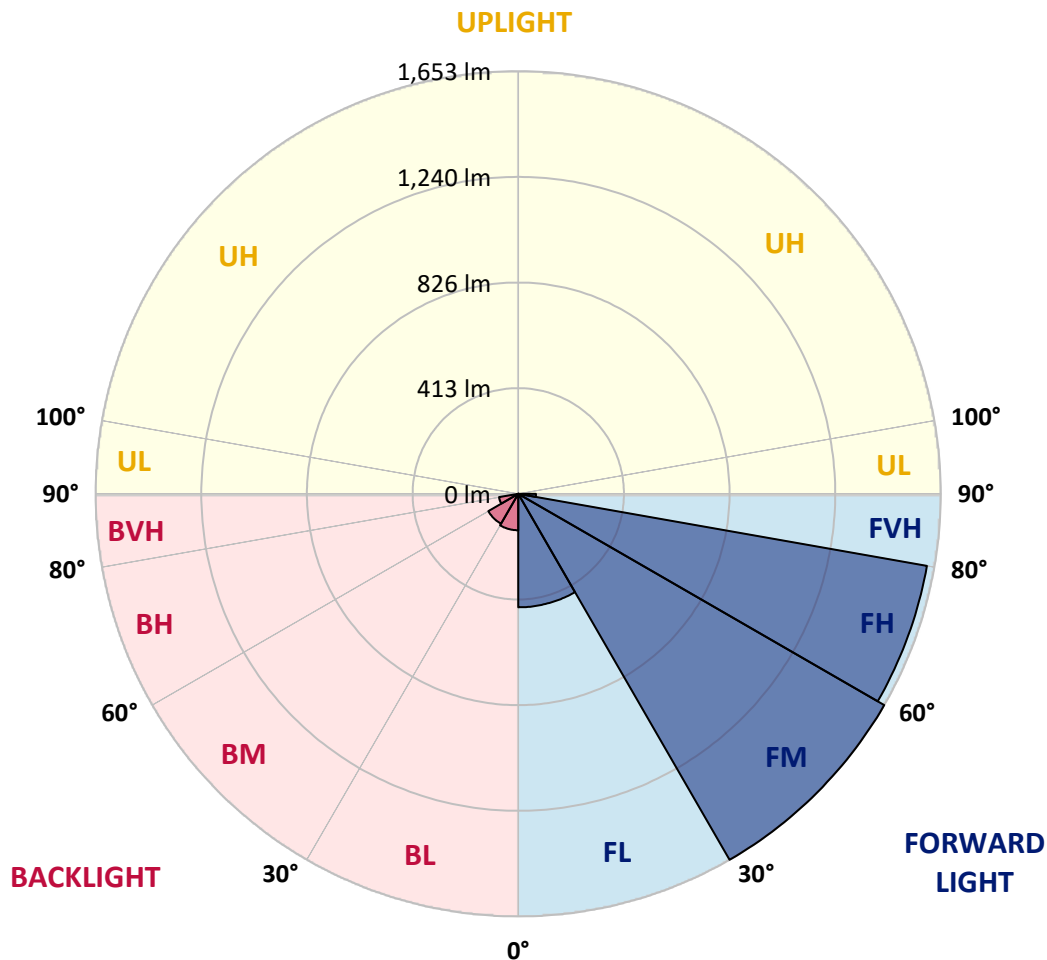


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.8	10.7			
FM (30°-60°)	1652.7	39.9			
FH (60°-80°)	1622.9	39.2			G1/1800
FVH (80°-90°)	69.1	1.7			G1/100
BL (0°-30°)	142.4	3.4	B1/500		
BM (30°-60°)	135.2	3.3	B0/220		
BH (60°-80°)	76.2	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1325.3	1322.0	1320.8	1318.7	1310.8	1303.1	1287.7	1283.4	1273.8	1250.9	1226.6
5°	1326.3	1326.2	1329.8	1328.9	1326.2	1322.5	1311.5	1305.8	1289.5	1256.7	1212.3
7.5°	1262.4	1265.7	1273.8	1280.3	1287.9	1297.7	1299.1	1293.6	1280.2	1244.8	1185.9
10°	1176.6	1181.8	1193.2	1206.1	1225.9	1245.5	1263.1	1262.4	1257.8	1223.0	1154.2
12.5°	1090.7	1096.7	1109.8	1128.9	1157.0	1189.0	1220.4	1224.7	1232.4	1203.3	1124.9
15°	1015.4	1020.5	1033.5	1056.9	1091.7	1134.8	1180.8	1188.7	1208.7	1188.0	1100.5
17.5°	951.5	954.7	964.2	990.2	1030.5	1082.7	1142.5	1158.0	1187.8	1175.9	1079.3
20°	906.8	907.4	913.6	931.8	972.1	1030.5	1102.9	1125.1	1165.8	1165.6	1057.4
22.5°	884.8	883.1	884.3	894.8	924.4	980.7	1063.3	1089.6	1146.0	1156.8	1035.2
25°	880.7	879.3	875.8	877.2	895.1	937.2	1023.3	1053.8	1128.6	1151.5	1015.9
27.5°	893.6	895.0	889.1	882.9	884.3	908.9	987.8	1023.1	1114.4	1151.5	1002.3
30°	919.6	920.3	916.0	907.9	897.0	901.0	963.2	998.5	1107.4	1159.4	993.7
32.5°	948.4	952.1	951.6	945.1	929.6	913.6	957.3	989.5	1106.8	1177.0	992.8
35°	984.0	988.3	995.6	994.2	978.0	951.6	977.3	1002.6	1117.0	1205.9	1002.1
37.5°	1021.9	1028.5	1044.0	1051.4	1040.9	1011.1	1022.1	1040.2	1144.2	1252.8	1025.7
40°	1058.6	1066.0	1094.3	1123.4	1115.5	1084.8	1090.0	1104.4	1192.6	1320.1	1070.5
42.5°	1094.6	1105.6	1147.2	1195.1	1204.5	1180.1	1182.8	1194.4	1264.5	1412.8	1143.7
45°	1137.7	1150.1	1211.6	1270.7	1296.0	1285.3	1297.0	1304.6	1358.4	1535.3	1242.4
47.5°	1200.9	1215.2	1290.7	1358.0	1402.5	1409.4	1433.0	1438.0	1477.1	1677.9	1371.1
50°	1324.3	1328.2	1396.4	1457.6	1521.7	1563.0	1589.9	1593.7	1620.7	1833.8	1531.8
52.5°	1479.5	1482.1	1520.6	1561.6	1634.5	1718.9	1781.8	1787.2	1792.8	1985.8	1690.5
55°	1633.7	1633.3	1658.8	1682.9	1766.3	1889.0	2025.4	2028.7	1987.9	2130.0	1811.8
57.5°	1730.0	1739.3	1778.0	1809.0	1925.5	2082.8	2272.1	2284.2	2192.7	2236.8	1931.7
60°	1699.3	1703.8	1789.7	1904.5	2123.8	2358.2	2521.7	2524.8	2346.7	2343.4	2083.3
62.5°	1447.8	1450.2	1585.2	1821.8	2224.2	2715.5	2822.9	2772.4	2523.8	2491.4	2264.7
65°	992.3	1008.0	1120.8	1413.1	2039.7	2939.7	3289.0	3205.5	2793.7	2704.7	2428.7
67.5°	584.3	581.1	636.9	852.2	1498.1	2790.8	3878.7	3795.7	3161.9	2847.5	2380.6
70°	399.2	396.9	418.3	516.0	845.7	2164.9	4064.2	4231.9	3487.0	2751.4	2048.8
72.5°	284.9	286.1	317.7	400.9	530.9	1261.4	3495.1	3891.8	3385.2	2398.5	1557.3
75°	193.5	196.7	241.9	328.9	465.5	641.7	2480.2	2958.4	2756.5	1743.2	895.1
77.5°	104.1	107.7	160.9	265.0	420.9	445.8	1595.4	2036.1	1731.5	783.7	259.4
80°	43.4	45.5	75.3	192.6	363.7	391.6	938.7	1234.7	737.8	154.5	57.9
82.5°	18.8	19.8	31.4	114.9	271.8	330.6	497.0	594.0	223.6	33.9	29.1
85°	3.6	3.8	12.9	60.8	173.5	186.6	322.1	315.8	100.4	14.6	21.2
87.5°	0.0	0.0	3.1	19.1	51.0	101.6	196.6	194.2	34.1	7.1	7.9
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°	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1214.2	1202.3	1177.3	1146.5	1122.9	1096.9	1076.2	1050.0	1038.6	1039.1	1032.9
5°	1187.0	1162.5	1107.2	1037.4	983.7	928.2	880.5	832.9	804.9	795.7	787.1
7.5°	1148.0	1109.3	1021.1	913.6	822.6	733.7	656.4	588.3	545.2	524.2	516.5
10°	1104.1	1049.7	922.0	780.4	650.5	530.3	430.0	342.8	308.0	284.4	278.4
12.5°	1065.5	991.8	825.2	643.8	489.6	344.5	248.9	194.7	171.1	161.8	160.2
15°	1029.2	937.7	732.0	520.1	339.0	212.1	158.3	139.9	134.4	132.8	132.8
17.5°	994.9	886.2	640.9	398.3	224.3	148.7	131.1	127.0	125.2	125.1	125.2
20°	959.0	834.7	551.3	291.8	156.6	125.9	121.1	118.9	118.4	118.4	118.4
22.5°	924.8	783.1	464.1	208.4	125.6	114.9	112.5	110.9	110.4	110.3	109.9
25°	891.9	734.2	379.0	147.3	110.3	105.3	103.2	101.1	99.6	98.7	98.2
27.5°	864.8	690.6	299.8	118.2	99.6	95.3	92.7	89.6	85.8	84.1	83.4
30°	843.3	650.8	231.0	99.7	89.6	85.3	81.3	76.0	70.5	67.5	67.4
32.5°	826.4	611.7	175.4	88.2	80.6	75.3	69.6	62.9	56.5	53.2	53.1
35°	818.1	577.3	134.0	79.8	72.7	66.0	58.9	51.5	45.3	42.2	41.9
37.5°	823.6	548.2	104.6	72.7	66.0	58.2	50.0	42.2	36.7	33.9	33.8
40°	843.8	529.6	84.9	66.7	60.3	50.8	41.9	34.6	30.0	27.7	27.6
42.5°	886.7	522.7	72.5	61.7	54.8	43.9	34.8	28.6	24.3	22.7	22.4
45°	958.4	532.8	64.1	56.8	49.1	37.4	28.8	23.4	19.6	18.4	18.3
47.5°	1053.8	559.5	58.1	52.2	43.9	31.5	23.9	18.9	16.0	14.8	14.6
50°	1176.8	601.9	53.1	47.5	39.1	26.7	19.8	15.0	12.4	11.5	11.5
52.5°	1310.6	652.4	48.6	43.2	34.3	22.2	16.0	11.5	9.8	8.8	8.8
55°	1421.2	696.5	43.8	40.0	28.4	18.4	12.2	8.8	7.2	6.7	6.7
57.5°	1531.7	743.5	38.2	34.3	22.7	15.0	9.3	6.5	5.3	5.0	5.0
60°	1674.8	801.1	32.9	27.9	17.9	11.4	6.9	4.7	4.0	3.8	3.8
62.5°	1832.3	834.8	28.1	22.4	14.0	8.4	5.0	3.1	2.9	2.9	2.8
65°	1928.6	787.1	23.6	17.9	10.9	6.4	3.3	2.2	2.6	2.4	2.1
67.5°	1805.8	616.2	19.3	14.0	8.4	4.8	2.1	1.6	2.8	2.2	1.7
70°	1495.2	431.4	15.0	9.8	6.7	4.1	1.4	1.0	2.9	2.2	1.4
72.5°	1118.9	288.7	11.9	6.5	5.0	3.6	1.2	0.5	2.6	1.9	1.2
75°	611.4	116.3	9.5	4.1	3.1	2.6	0.9	0.3	1.7	1.4	0.9
77.5°	160.9	30.7	6.9	2.8	1.7	1.0	0.5	0.2	0.9	0.7	0.3
80°	41.0	11.9	4.5	1.9	1.2	0.5	0.0	0.0	0.2	0.0	0.0
82.5°	21.9	5.0	2.8	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	3.3	1.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	1.0	0.5	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)