

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: INVUE

Report Number: P677032

Luminaire Tested: **CCW-SA-1F-827-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677032
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

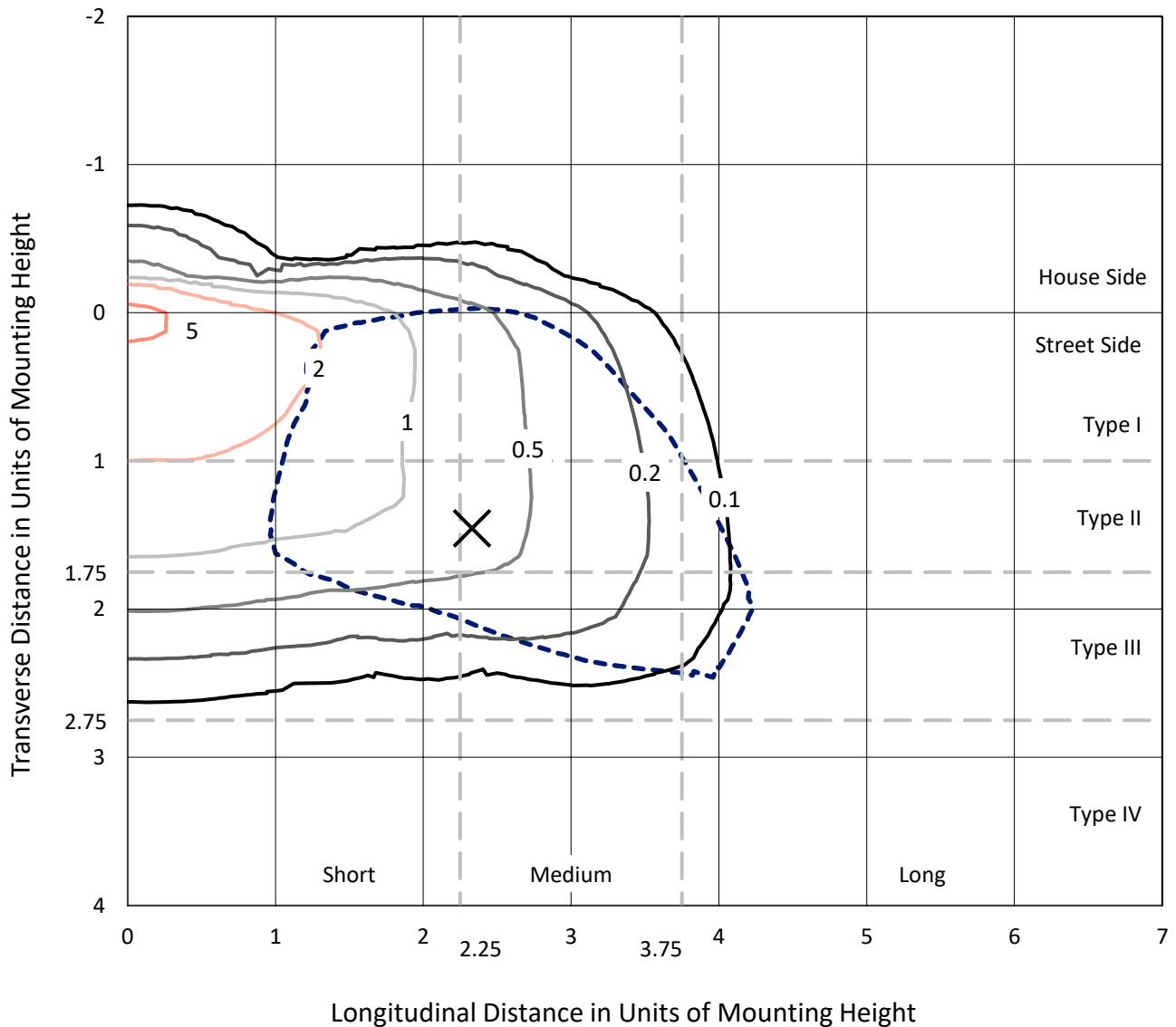
Lumens per Lamp: N/A
Luminaire Lumens: 4554.4 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

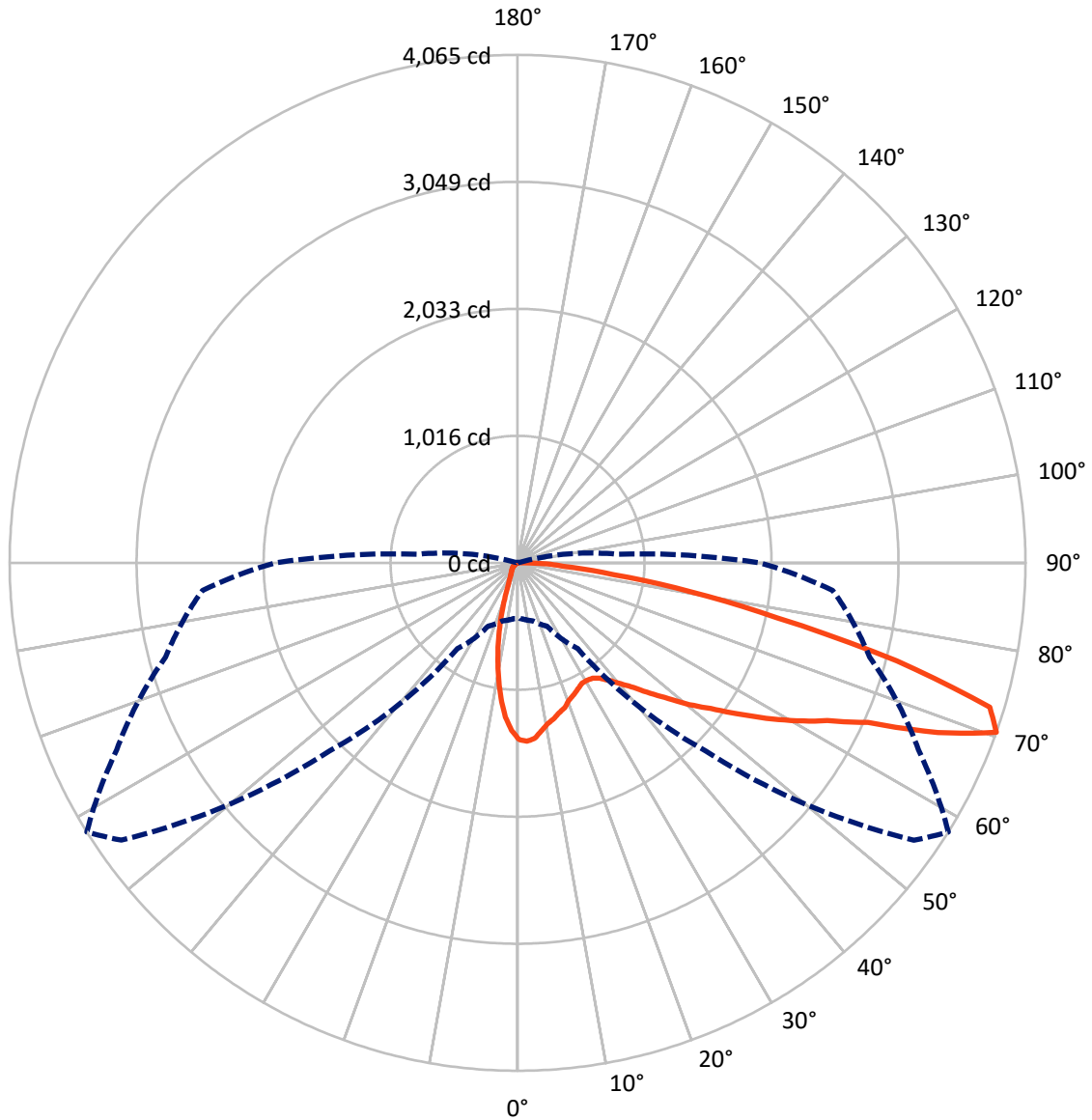
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 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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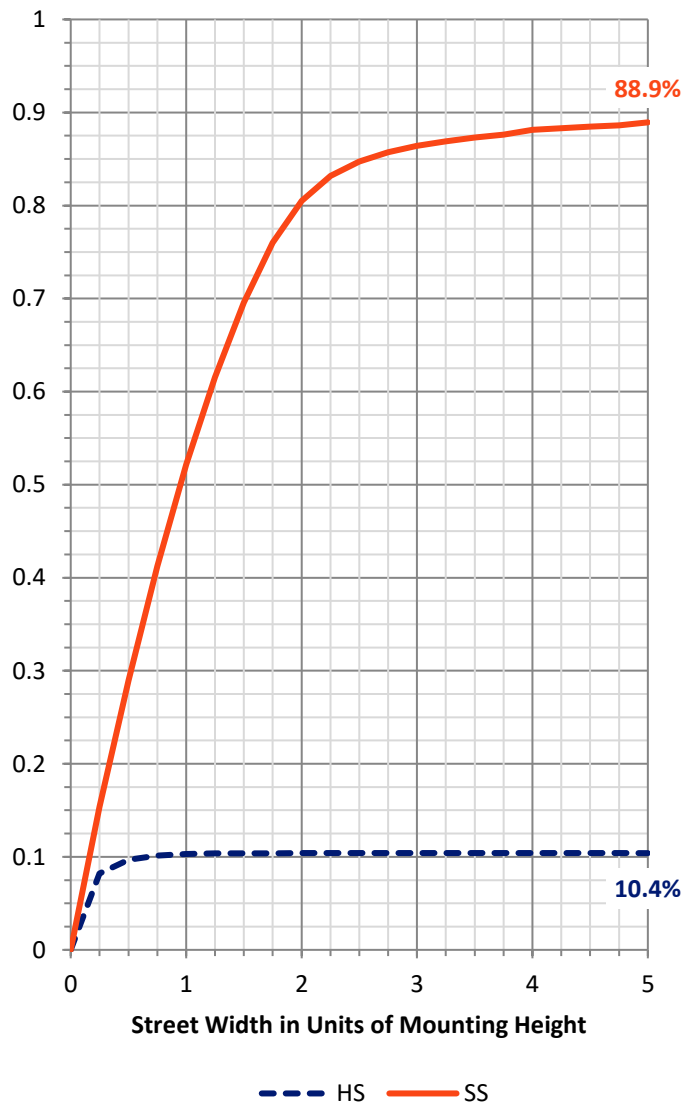
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.9	0.0	476.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4077.5	0.0	4077.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	4554.4	0.0	4554.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	2.5
10°-20°	240.2	5.3
20°-30°	321.6	7.1
30°-40°	434.7	9.5
40°-50°	623.9	13.7
50°-60°	919.4	20.2
60°-70°	1121.5	24.6
70°-80°	684.8	15.0
80°-90°	93.0	2.0
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°	4554.4	100.0
0°-180°	4554.4	100.0

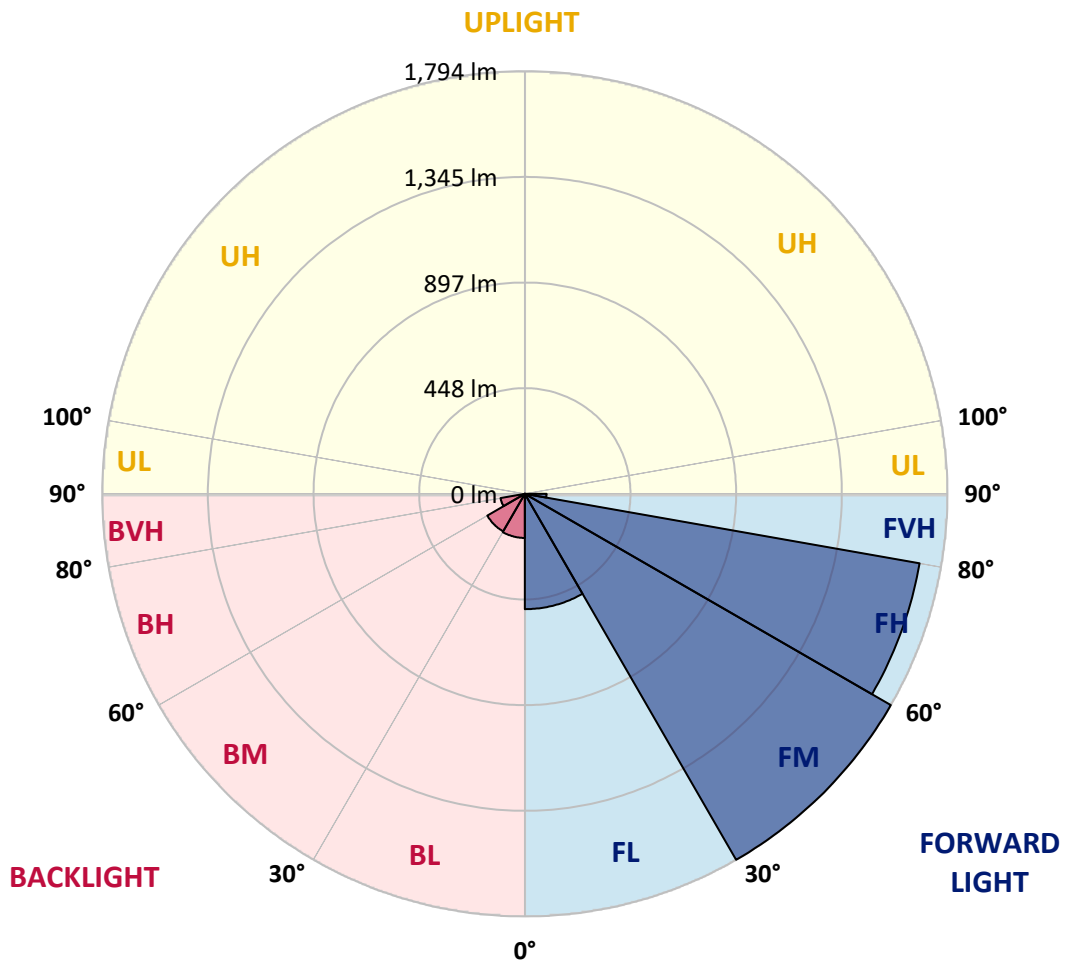


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.7	10.8			
FM (30°-60°)	1793.9	39.4			
FH (60°-80°)	1701.8	37.4			G1/1800
FVH (80°-90°)	92.1	2.0			G1/100
BL (0°-30°)	187.4	4.1	B1/500		
BM (30°-60°)	184.1	4.0	B0/220		
BH (60°-80°)	104.5	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8
2.5°	1439.5	1444.8	1432.0	1446.9	1433.1	1439.5	1432.0	1429.9	1430.9	1432.0	1423.4
5°	1372.2	1385.0	1390.3	1381.8	1402.1	1398.9	1411.7	1412.8	1407.4	1402.1	1403.2
7.5°	1283.6	1296.4	1301.7	1307.1	1327.3	1354.0	1371.1	1360.4	1369.0	1388.2	1359.4
10°	1219.5	1216.3	1215.2	1225.9	1264.3	1286.8	1315.6	1312.4	1333.7	1351.9	1328.4
12.5°	1140.5	1134.1	1153.3	1161.8	1196.0	1235.5	1257.9	1281.4	1302.8	1322.0	1295.3
15°	1081.7	1087.1	1094.5	1112.7	1137.3	1189.6	1222.7	1245.1	1283.6	1293.2	1282.5
17.5°	1034.7	1039.0	1049.7	1059.3	1090.3	1140.5	1192.8	1219.5	1260.1	1285.7	1252.6
20°	1035.8	1023.0	1023.0	1032.6	1049.7	1109.5	1165.0	1173.6	1229.1	1272.9	1250.5
22.5°	1036.9	1032.6	1023.0	1021.9	1029.4	1072.1	1128.7	1147.9	1207.7	1259.0	1232.3
25°	1051.8	1035.8	1036.9	1021.9	1025.1	1046.5	1091.3	1120.2	1188.5	1266.5	1222.7
27.5°	1064.6	1072.1	1057.2	1050.8	1032.6	1031.5	1068.9	1093.5	1178.9	1283.6	1229.1
30°	1093.5	1098.8	1098.8	1094.5	1077.5	1052.9	1061.4	1092.4	1159.7	1280.4	1218.4
32.5°	1141.5	1131.9	1144.7	1138.3	1115.9	1077.5	1084.9	1101.0	1171.4	1320.9	1235.5
35°	1157.6	1165.0	1182.1	1168.2	1160.8	1138.3	1123.4	1135.1	1188.5	1361.5	1261.1
37.5°	1206.7	1196.0	1207.7	1238.7	1246.2	1205.6	1176.8	1193.9	1252.6	1409.6	1284.6
40°	1210.9	1219.5	1240.8	1301.7	1309.2	1292.1	1268.6	1272.9	1316.7	1471.5	1343.4
42.5°	1232.3	1241.9	1285.7	1337.0	1377.5	1380.7	1363.6	1363.6	1401.0	1570.8	1408.5
45°	1273.9	1257.9	1314.5	1401.0	1459.8	1471.5	1493.9	1488.6	1518.5	1675.5	1530.2
47.5°	1290.0	1295.3	1357.2	1461.9	1529.2	1583.6	1621.0	1622.1	1637.0	1808.9	1688.3
50°	1342.3	1341.2	1416.0	1513.1	1612.5	1711.8	1784.4	1784.4	1783.3	1939.2	1823.9
52.5°	1411.7	1409.6	1467.2	1582.6	1711.8	1836.7	1932.8	1936.0	1960.6	2099.4	1979.8
55°	1524.9	1515.3	1570.8	1656.2	1811.1	1962.7	2129.3	2130.4	2111.1	2213.7	2091.9
57.5°	1619.9	1618.9	1664.8	1747.0	1922.1	2125.0	2318.3	2347.1	2286.3	2331.1	2181.6
60°	1595.4	1609.3	1704.3	1826.0	2039.6	2327.9	2522.3	2567.1	2469.9	2411.2	2248.9
62.5°	1442.7	1474.7	1578.3	1772.6	2138.9	2622.6	2803.1	2782.8	2566.0	2479.6	2331.1
65°	1038.0	1070.0	1198.1	1489.7	2023.6	2830.9	3172.6	3080.8	2736.9	2581.0	2441.1
67.5°	610.8	623.6	703.7	950.4	1513.1	2717.7	3621.1	3628.6	3073.3	2736.9	2631.2
70°	441.0	450.6	481.6	560.6	838.3	2130.4	3871.0	4065.3	3539.9	2916.3	2530.8
72.5°	338.5	338.5	390.8	466.7	533.9	1276.1	3562.4	3952.1	3641.4	2744.4	2039.6
75°	243.5	249.9	306.5	401.5	492.3	640.7	2624.8	3136.3	3086.1	2224.3	1424.5
77.5°	139.9	143.1	215.7	336.4	462.4	440.0	1622.1	2126.1	2185.9	1392.5	617.2
80°	71.5	73.7	120.7	265.9	418.6	383.4	967.5	1400.0	1187.5	404.7	143.1
82.5°	35.2	35.2	54.5	169.8	355.6	339.6	569.2	773.1	420.7	92.9	59.8
85°	11.7	12.8	24.6	96.1	257.4	205.0	348.1	367.3	141.0	35.2	33.1
87.5°	3.2	4.3	6.4	35.2	112.1	134.5	207.2	234.9	57.7	13.9	16.0
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°	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8
2.5°	1391.4	1383.9	1375.4	1354.0	1337.0	1314.5	1299.6	1287.8	1265.4	1269.7	1260.1
5°	1377.5	1363.6	1314.5	1267.5	1224.8	1159.7	1114.8	1086.0	1062.5	1039.0	1056.1
7.5°	1353.0	1319.9	1243.0	1155.4	1064.6	979.2	893.8	842.5	805.2	771.0	769.9
10°	1311.3	1257.9	1137.3	1023.0	883.1	771.0	662.1	576.6	521.1	480.5	479.5
12.5°	1264.3	1208.8	1057.2	871.4	710.1	552.1	421.8	331.0	278.7	246.7	242.4
15°	1234.4	1153.3	956.8	736.8	537.1	359.9	233.9	177.3	157.0	149.5	149.5
17.5°	1196.0	1103.1	857.5	596.9	372.7	208.2	151.6	136.7	135.6	133.5	131.3
20°	1180.0	1064.6	768.9	476.3	236.0	147.4	130.3	127.1	127.1	124.9	122.8
22.5°	1137.3	1009.1	674.9	349.2	157.0	129.2	122.8	118.5	116.4	114.3	116.4
25°	1118.0	969.6	586.3	241.3	128.1	115.3	112.1	107.9	104.6	103.6	103.6
27.5°	1105.2	930.1	499.8	167.7	113.2	105.7	99.3	96.1	91.8	87.6	87.6
30°	1095.6	899.1	416.5	123.9	101.4	94.0	88.6	81.2	75.8	71.5	71.5
32.5°	1082.8	862.8	333.2	105.7	91.8	84.4	74.7	68.3	60.9	57.7	57.7
35°	1087.1	838.3	261.6	94.0	82.2	72.6	64.1	55.5	48.1	44.8	43.8
37.5°	1095.6	820.1	198.6	84.4	73.7	63.0	53.4	43.8	39.5	35.2	35.2
40°	1131.9	814.8	146.3	78.0	67.3	55.5	44.8	36.3	32.0	28.8	27.8
42.5°	1192.8	822.2	113.2	70.5	60.9	47.0	37.4	29.9	25.6	22.4	21.4
45°	1270.7	851.1	92.9	66.2	53.4	39.5	29.9	24.6	19.2	17.1	17.1
47.5°	1383.9	895.9	81.2	60.9	47.0	33.1	25.6	19.2	14.9	12.8	12.8
50°	1512.1	947.2	71.5	54.5	40.6	27.8	20.3	14.9	10.7	9.6	9.6
52.5°	1640.2	1012.3	66.2	50.2	35.2	22.4	16.0	10.7	7.5	6.4	6.4
55°	1774.8	1070.0	59.8	47.0	28.8	18.2	11.7	6.4	4.3	3.2	3.2
57.5°	1868.7	1092.4	52.3	40.6	22.4	13.9	8.5	4.3	2.1	1.1	1.1
60°	1936.0	1095.6	44.8	33.1	17.1	10.7	5.3	2.1	1.1	0.0	0.0
62.5°	1992.6	1102.0	38.4	25.6	12.8	7.5	3.2	1.1	0.0	0.0	0.0
65°	2104.7	1096.7	31.0	20.3	8.5	4.3	2.1	0.0	0.0	0.0	0.0
67.5°	2193.4	1043.3	24.6	13.9	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	1940.3	795.5	19.2	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1523.8	530.7	12.8	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	999.5	263.8	9.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	388.7	69.4	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.0	23.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.6	8.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	2.1	1.1	1.1	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)