

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: P676932

Luminaire Tested: **CCW-SA-1F-850-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676932
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

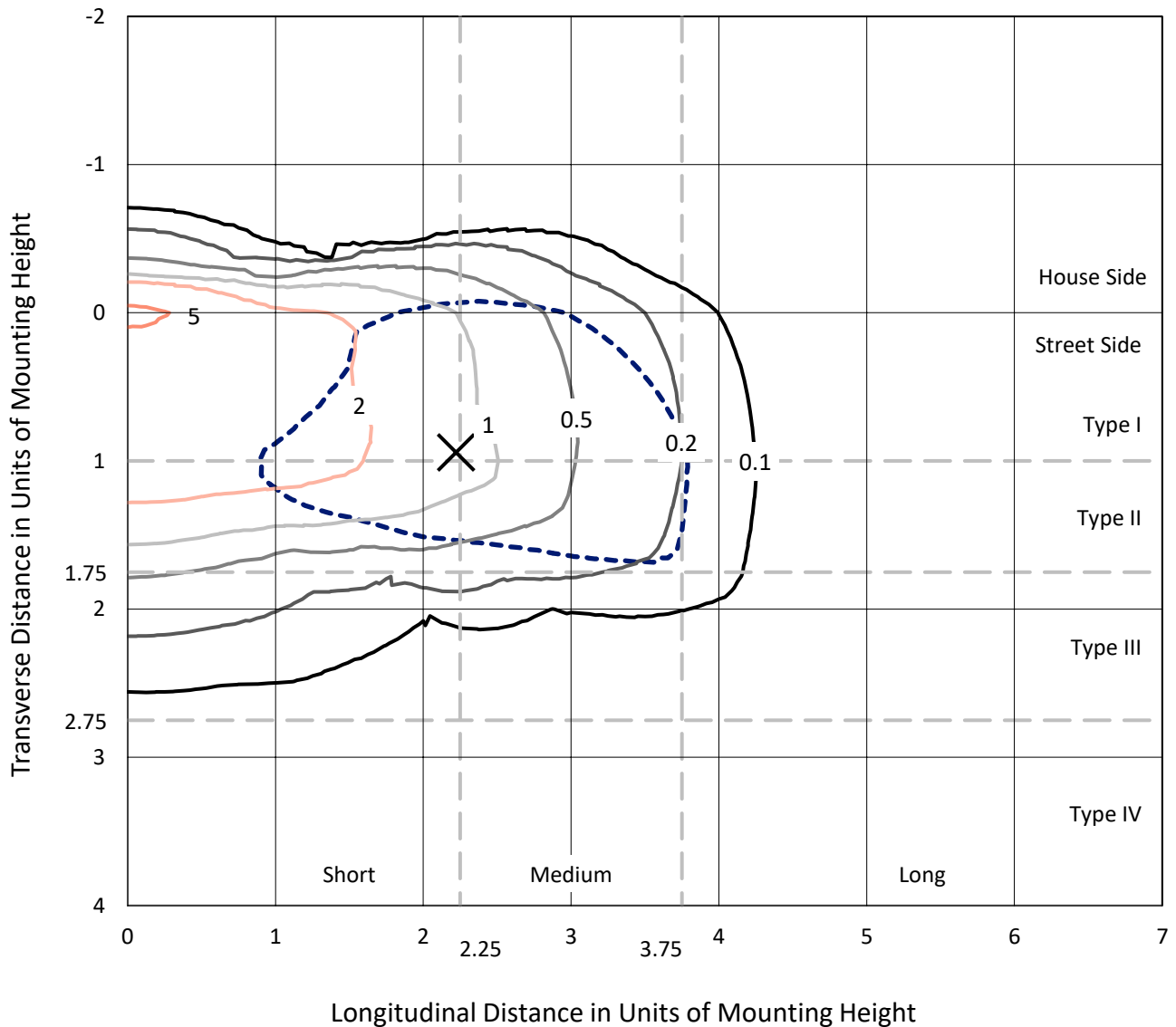
Lumens per Lamp: N/A
Luminaire Lumens: 5261.2 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

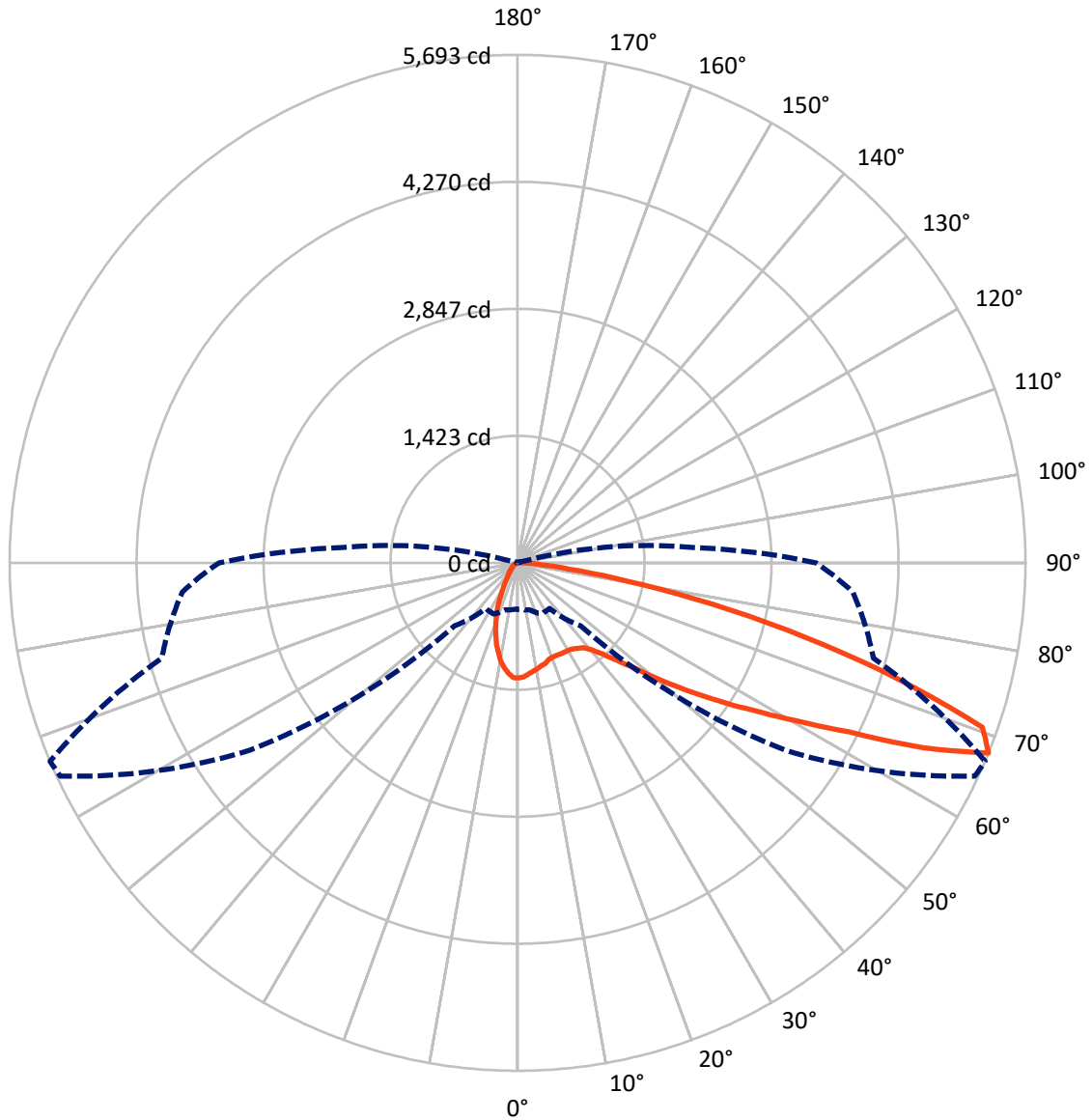
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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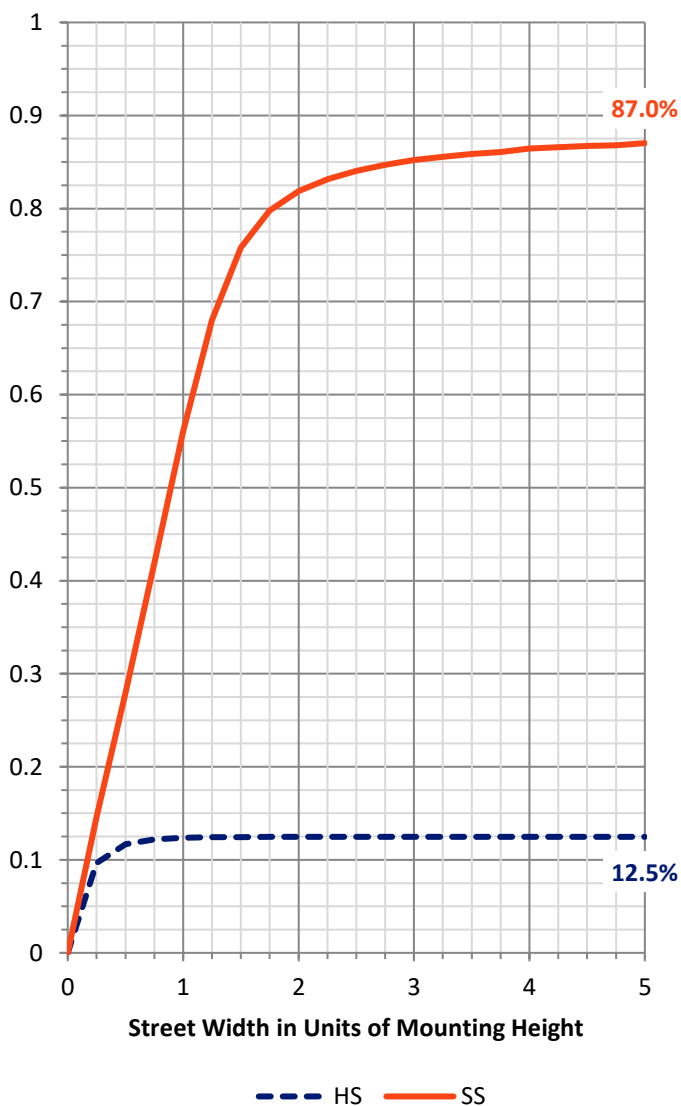
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.1	0.0	662.1
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4599.0	0.0	4599.0
	% Fixture	87.4	0.0	87.4
Total	Lumens	5261.2	0.0	5261.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	2.1
10°-20°	241.5	4.6
20°-30°	343.5	6.5
30°-40°	500.1	9.5
40°-50°	774.0	14.7
50°-60°	1187.9	22.6
60°-70°	1287.7	24.5
70°-80°	726.5	13.8
80°-90°	91.3	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°	5261.2	100.0
0°-180°	5261.2	100.0

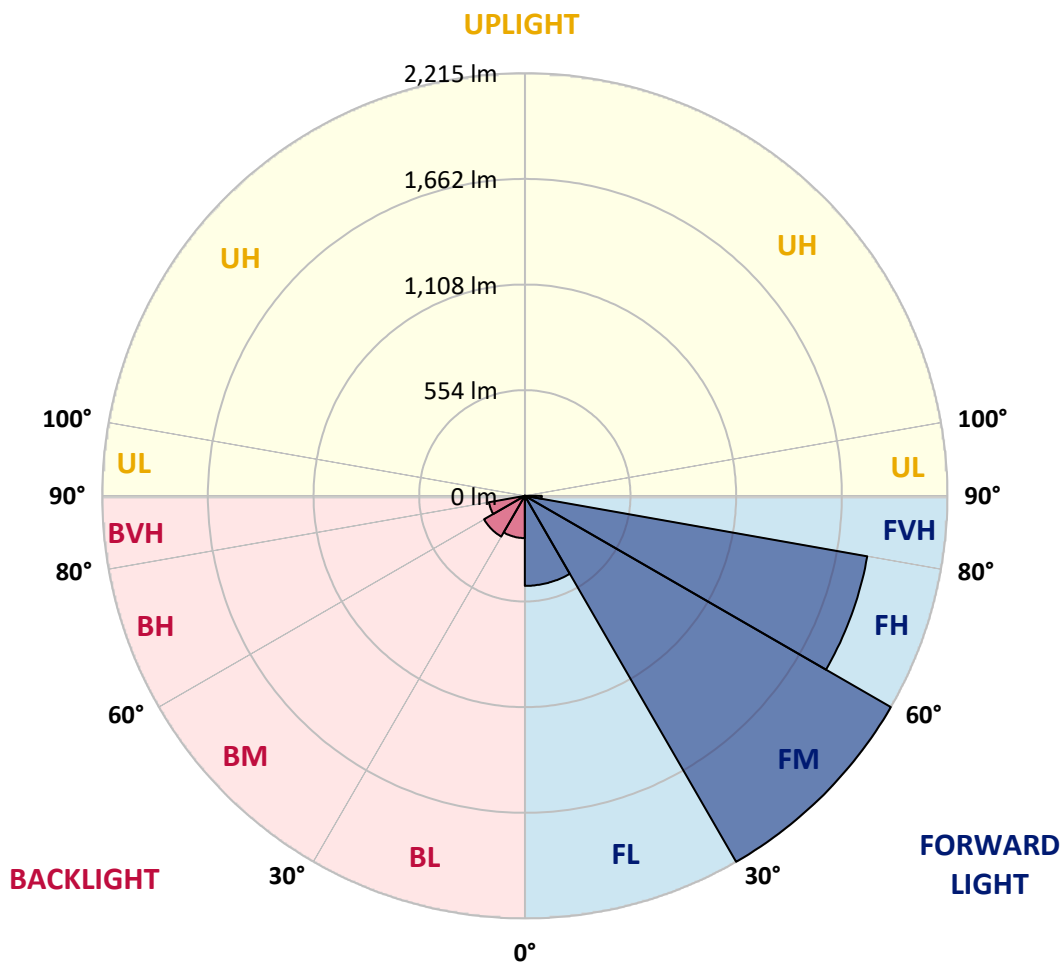


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.1	9.0			
FM (30°-60°)	2215.4	42.1			
FH (60°-80°)	1822.9	34.6			G2/5000
FVH (80°-90°)	88.7	1.7			G1/100
BL (0°-30°)	221.6	4.2	B1/500		
BM (30°-60°)	246.6	4.7	B1/1000		
BH (60°-80°)	191.3	3.6	B1/500		G1/500
BVH (80°-90°)	2.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1234.7	1241.0	1249.9	1262.6	1271.5	1266.4	1270.2	1291.7	1280.3	1290.5	1285.4
5°	1166.2	1172.6	1185.3	1184.0	1194.1	1213.1	1238.5	1266.4	1253.7	1284.1	1295.5
7.5°	1095.3	1092.7	1092.7	1119.3	1140.9	1167.5	1181.5	1227.1	1228.4	1255.0	1282.9
10°	1030.6	1038.2	1050.9	1061.0	1081.3	1119.3	1159.9	1195.4	1209.3	1262.6	1270.2
12.5°	991.3	995.1	1010.3	1019.2	1045.8	1082.6	1125.7	1171.3	1182.7	1237.2	1274.0
15°	974.8	983.7	988.8	1005.2	1019.2	1053.4	1085.1	1137.1	1170.0	1213.1	1258.8
17.5°	987.5	983.7	986.2	991.3	1007.8	1038.2	1072.4	1124.4	1135.8	1208.1	1276.5
20°	1004.0	1005.2	997.6	995.1	991.3	1020.5	1048.3	1115.5	1128.2	1208.1	1287.9
22.5°	1048.3	1034.4	1048.3	1028.1	1007.8	1020.5	1047.1	1116.8	1125.7	1206.8	1299.3
25°	1102.9	1105.4	1109.2	1066.1	1036.9	1028.1	1056.0	1120.6	1128.2	1216.9	1304.4
27.5°	1180.2	1191.6	1172.6	1151.0	1092.7	1048.3	1054.7	1118.1	1132.0	1211.9	1317.1
30°	1284.1	1275.3	1277.8	1228.4	1171.3	1101.6	1083.8	1124.4	1134.5	1218.2	1341.2
32.5°	1374.1	1364.0	1381.7	1364.0	1274.0	1177.6	1118.1	1137.1	1148.5	1233.4	1361.5
35°	1429.9	1442.6	1470.5	1489.5	1413.4	1276.5	1175.1	1171.3	1176.4	1241.0	1376.7
37.5°	1516.1	1538.9	1561.7	1609.9	1544.0	1398.2	1265.1	1215.7	1206.8	1277.8	1384.3
40°	1609.9	1603.6	1670.8	1727.8	1725.3	1569.4	1390.6	1294.3	1281.6	1336.1	1435.0
42.5°	1688.5	1682.2	1757.0	1850.8	1860.9	1734.1	1533.9	1405.8	1394.4	1426.1	1497.1
45°	1791.2	1796.3	1885.0	1996.5	2033.3	1952.2	1727.8	1565.5	1559.2	1549.1	1615.0
47.5°	1882.5	1910.3	1986.4	2118.2	2251.3	2177.8	1956.0	1798.8	1754.4	1731.6	1797.5
50°	1945.8	1971.2	2063.7	2204.4	2447.8	2494.7	2212.1	2047.3	2048.5	1992.7	2028.2
52.5°	1945.8	1944.6	2019.4	2204.4	2584.7	2825.6	2554.3	2360.4	2370.5	2312.2	2314.7
55°	1758.2	1754.4	1845.7	2042.2	2569.5	3143.8	3072.8	2757.1	2731.8	2619.0	2630.4
57.5°	1416.0	1424.8	1494.6	1730.3	2371.8	3292.1	3690.1	3203.4	3117.2	2883.9	2883.9
60°	1033.1	1025.5	1077.5	1242.3	1900.2	3236.3	4197.2	3729.4	3593.8	3103.2	3070.2
62.5°	785.9	784.7	798.6	854.4	1205.5	2821.8	4415.2	4398.7	4178.2	3318.7	3271.8
65°	635.1	637.6	656.6	695.9	736.5	1924.3	4299.9	5197.4	4995.8	3639.4	3486.0
67.5°	518.5	524.8	547.6	632.6	623.7	996.4	3662.2	5655.0	5693.0	4128.7	3773.8
70°	399.3	409.5	436.1	556.5	600.9	663.0	2539.1	5426.8	5528.2	4433.0	3600.1
72.5°	271.3	270.0	327.1	451.3	607.2	607.2	1413.4	4370.9	4467.2	4086.9	3127.3
75°	147.0	155.9	216.8	341.0	556.5	586.9	805.0	3198.3	3333.9	3178.0	2418.7
77.5°	79.9	81.1	120.4	223.1	462.7	560.3	537.5	2175.3	2228.5	1916.7	1324.7
80°	41.8	43.1	63.4	145.8	319.4	519.7	447.5	1296.8	1246.1	735.2	437.3
82.5°	19.0	20.3	31.7	91.3	204.1	409.5	386.6	626.2	578.0	205.4	133.1
85°	7.6	7.6	13.9	54.5	119.2	201.6	330.9	314.4	262.4	62.1	65.9
87.5°	2.5	2.5	3.8	21.6	48.2	120.4	176.2	166.1	114.1	22.8	35.5
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°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1280.3	1294.3	1290.5	1287.9	1263.8	1261.3	1258.8	1236.0	1243.6	1224.6	1237.2
5°	1287.9	1295.5	1275.3	1237.2	1203.0	1165.0	1135.8	1115.5	1078.8	1064.8	1062.3
7.5°	1280.3	1280.3	1238.5	1177.6	1110.5	1048.3	969.8	914.0	872.1	840.5	851.9
10°	1270.2	1255.0	1211.9	1104.1	982.4	888.6	775.8	693.4	631.3	611.0	598.3
12.5°	1270.2	1243.6	1147.2	1000.2	843.0	701.0	566.6	458.9	399.3	363.8	358.7
15°	1258.8	1219.5	1100.3	902.6	707.3	514.7	361.3	268.7	218.0	204.1	199.0
17.5°	1261.3	1214.4	1030.6	787.2	548.9	342.3	220.6	169.9	157.2	150.9	152.1
20°	1266.4	1214.4	968.5	674.4	395.5	213.0	152.1	143.2	136.9	134.4	135.6
22.5°	1282.9	1190.3	905.1	559.0	267.5	153.4	134.4	125.5	120.4	116.6	115.4
25°	1285.4	1186.5	844.3	444.9	183.8	129.3	117.9	107.8	101.4	96.3	95.1
27.5°	1281.6	1170.0	759.3	330.9	138.2	115.4	100.1	90.0	81.1	77.3	76.1
30°	1295.5	1139.6	687.1	238.3	116.6	100.1	84.9	73.5	65.9	60.8	60.8
32.5°	1296.8	1113.0	607.2	169.9	106.5	88.7	72.3	59.6	52.0	49.4	49.4
35°	1298.1	1088.9	518.5	129.3	95.1	76.1	59.6	49.4	44.4	40.6	40.6
37.5°	1301.9	1071.2	437.3	109.0	84.9	64.7	49.4	40.6	35.5	34.2	34.2
40°	1309.5	1047.1	352.4	96.3	73.5	54.5	41.8	34.2	29.2	27.9	26.6
42.5°	1329.8	1040.7	281.4	86.2	65.9	45.6	34.2	27.9	24.1	21.6	20.3
45°	1413.4	1057.2	218.0	79.9	55.8	38.0	29.2	22.8	17.7	16.5	15.2
47.5°	1550.3	1111.7	172.4	71.0	46.9	31.7	24.1	17.7	13.9	12.7	11.4
50°	1758.2	1236.0	140.7	63.4	39.3	26.6	19.0	13.9	10.1	8.9	8.9
52.5°	2030.8	1403.3	121.7	55.8	31.7	22.8	15.2	10.1	7.6	6.3	6.3
55°	2309.7	1601.0	114.1	48.2	26.6	19.0	11.4	7.6	5.1	3.8	3.8
57.5°	2565.7	1729.1	110.3	39.3	22.8	13.9	8.9	5.1	2.5	1.3	1.3
60°	2725.4	1822.9	98.9	31.7	17.7	11.4	6.3	2.5	1.3	0.0	0.0
62.5°	2935.9	1918.0	81.1	24.1	12.7	7.6	3.8	1.3	0.0	0.0	0.0
65°	3213.5	2024.4	63.4	19.0	10.1	5.1	2.5	1.3	0.0	0.0	0.0
67.5°	3346.6	1968.7	43.1	13.9	6.3	2.5	1.3	0.0	0.0	0.0	0.0
70°	3080.4	1658.1	30.4	10.1	3.8	1.3	1.3	0.0	0.0	0.0	0.0
72.5°	2589.8	1299.3	22.8	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
75°	1909.1	812.6	17.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1012.9	303.0	12.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	299.2	88.7	8.9	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.9	26.6	5.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.7	10.1	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.2	3.8	2.5	2.5	1.3	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)