

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: P676921

Luminaire Tested: **CCW-SA-1F-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676921
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

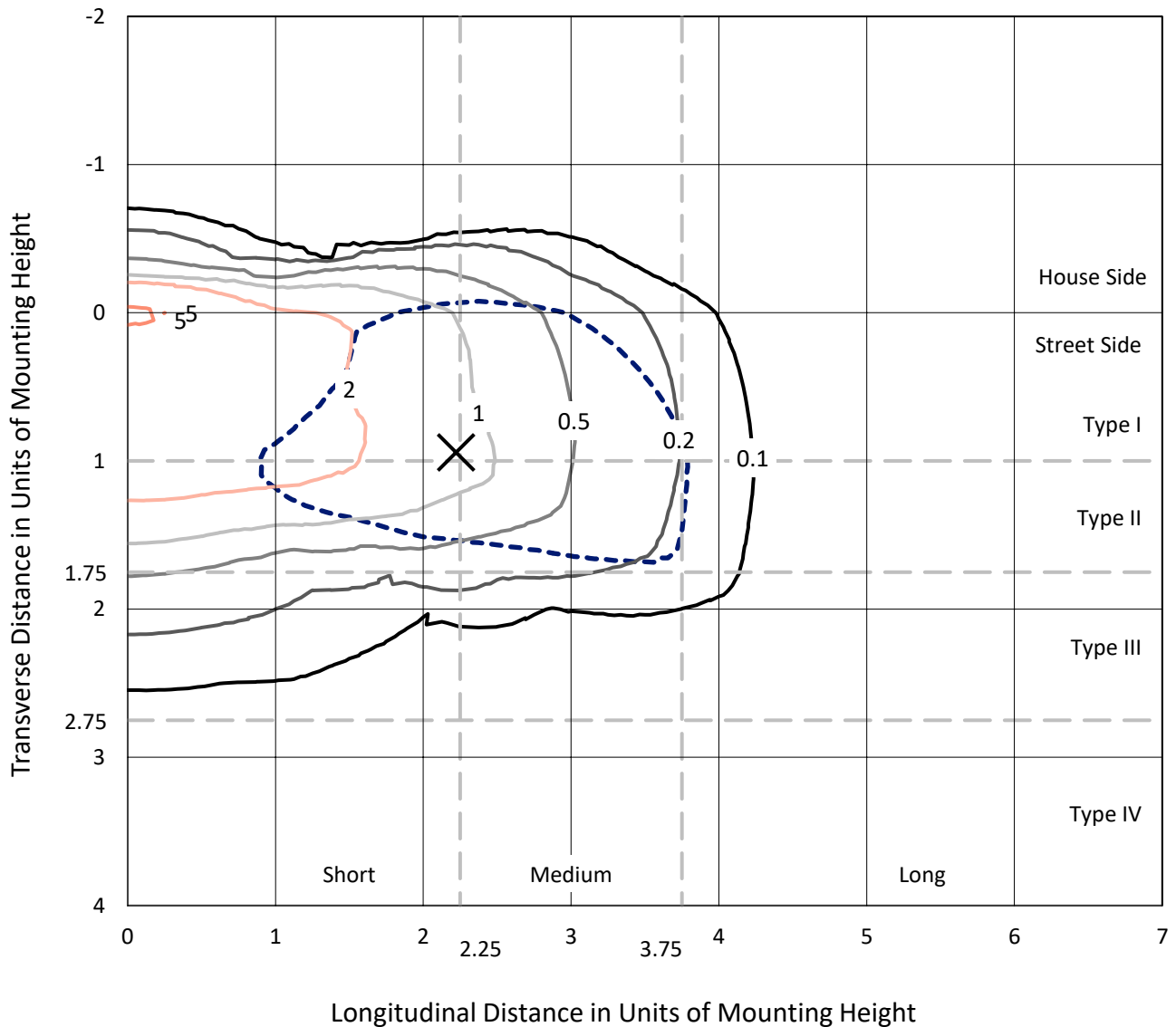
Lumens per Lamp: N/A
Luminaire Lumens: 5140.6 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P676921
 CATALOG NUMBER: CCW-SA-1F-840-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

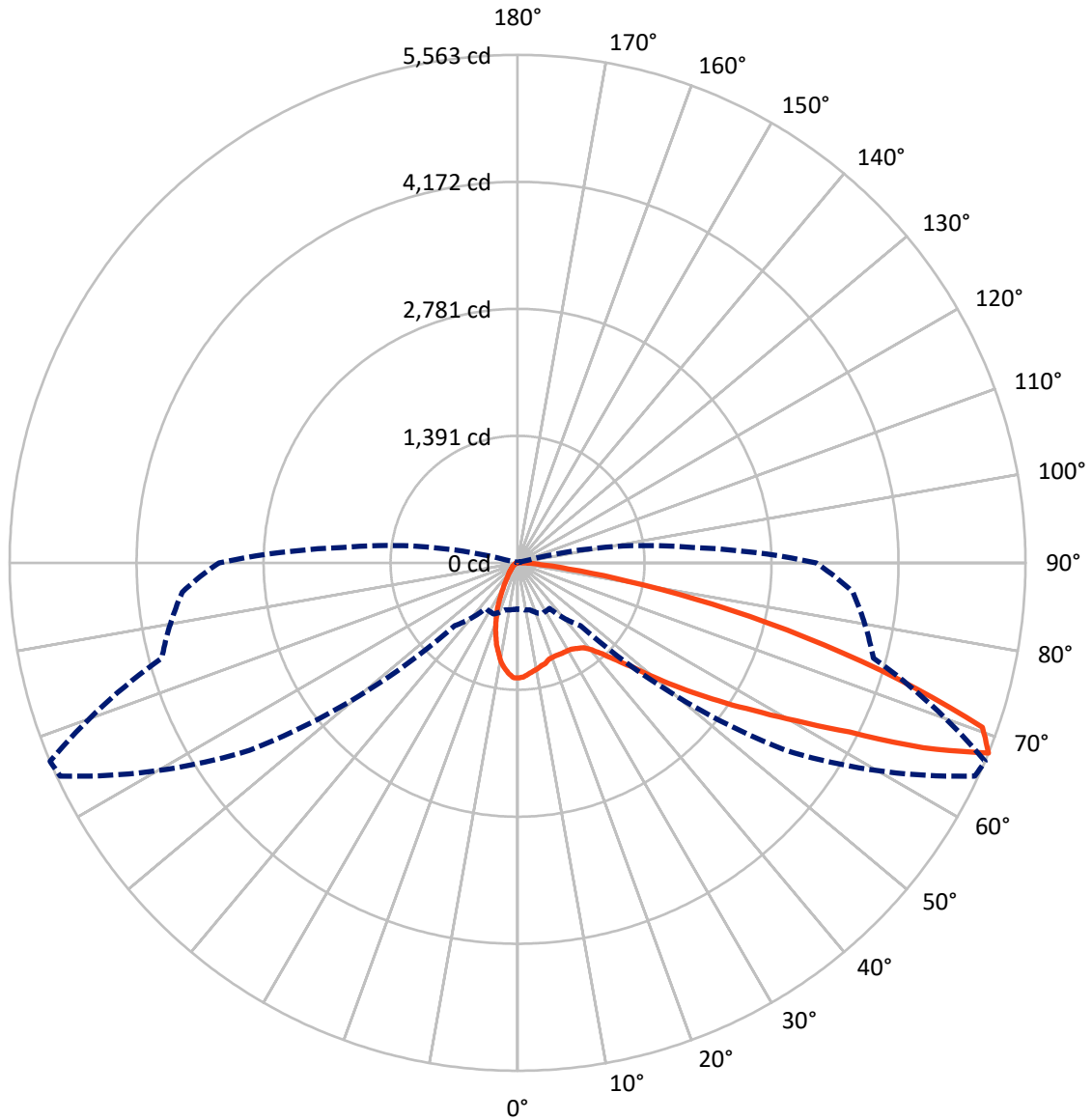
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P676921
CATALOG NUMBER: CCW-SA-1F-840-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676921
 CATALOG NUMBER: CCW-SA-1F-840-U-SL2-HSS

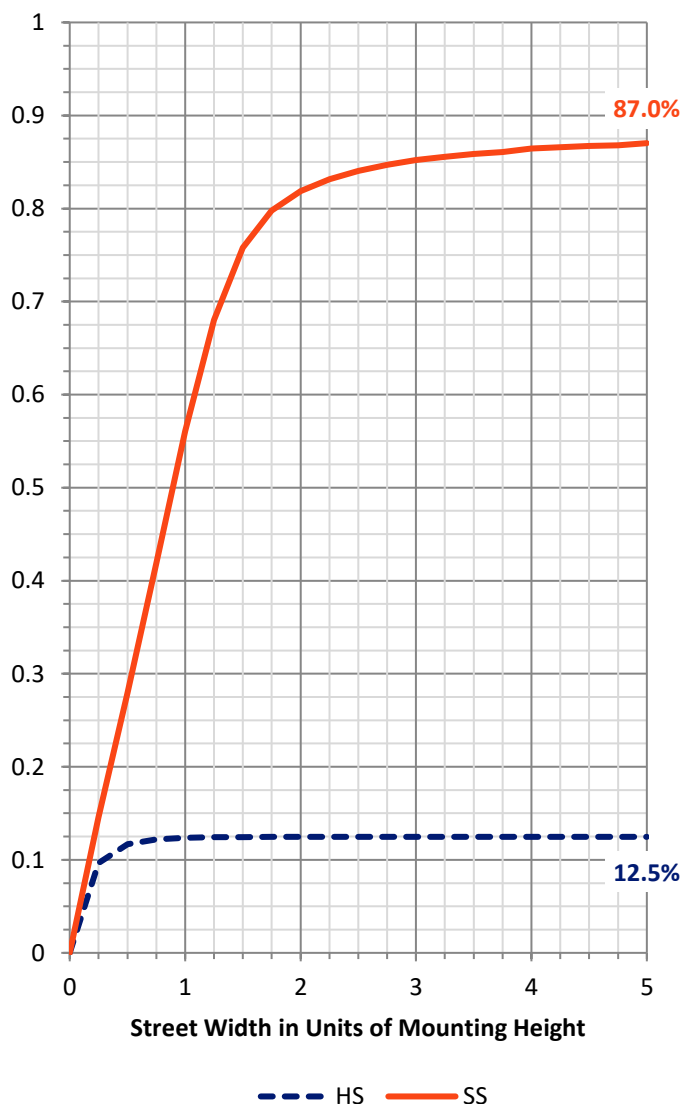
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.0	0.0	647.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4493.6	0.0	4493.6
	% Fixture	87.4	0.0	87.4
Total	Lumens	5140.6	0.0	5140.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.1
10°-20°	236.0	4.6
20°-30°	335.6	6.5
30°-40°	488.7	9.5
40°-50°	756.3	14.7
50°-60°	1160.7	22.6
60°-70°	1258.2	24.5
70°-80°	709.8	13.8
80°-90°	89.2	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°	5140.6	100.0
0°-180°	5140.6	100.0

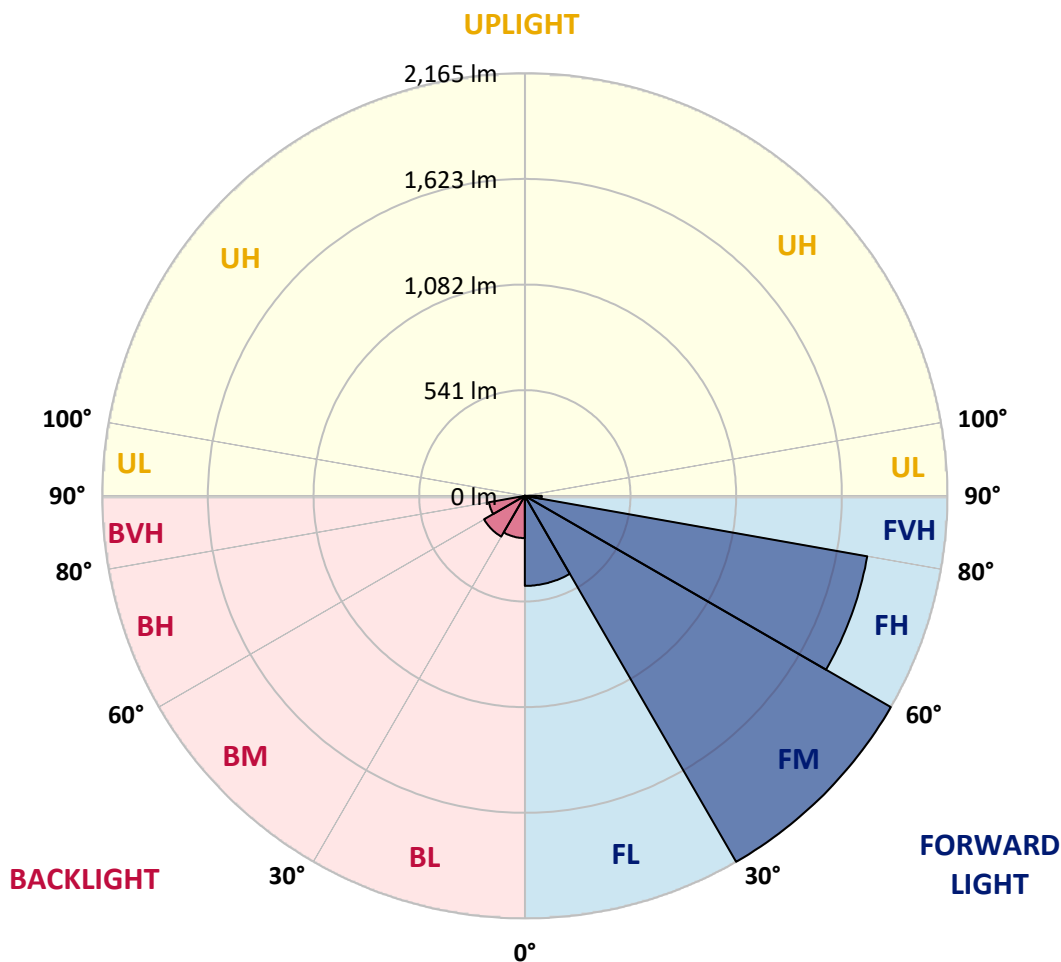


REPORT NUMBER: P676921
 CATALOG NUMBER: CCW-SA-1F-840-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.3	9.0			
FM (30°-60°)	2164.6	42.1			
FH (60°-80°)	1781.1	34.6			G1/1800
FVH (80°-90°)	86.6	1.7			G1/100
BL (0°-30°)	216.6	4.2	B1/500		
BM (30°-60°)	241.0	4.7	B1/1000		
BH (60°-80°)	186.9	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-G1
 Type II Short





REPORT NUMBER: P676921

CATALOG NUMBER: CCW-SA-1F-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1206.4	1212.6	1221.3	1233.6	1242.3	1237.4	1241.1	1262.1	1251.0	1260.9	1255.9
5°	1139.5	1145.7	1158.1	1156.8	1166.8	1185.3	1210.1	1237.4	1225.0	1254.7	1265.8
7.5°	1070.1	1067.7	1067.7	1093.7	1114.7	1140.7	1154.4	1199.0	1200.2	1226.2	1253.5
10°	1007.0	1014.4	1026.8	1036.7	1056.5	1093.7	1133.3	1168.0	1181.6	1233.6	1241.1
12.5°	968.6	972.3	987.2	995.8	1021.8	1057.8	1099.9	1144.5	1155.6	1208.9	1244.8
15°	952.5	961.2	966.1	982.2	995.8	1029.3	1060.2	1111.0	1143.2	1185.3	1229.9
17.5°	964.9	961.2	963.6	968.6	984.7	1014.4	1047.9	1098.6	1109.8	1180.4	1247.3
20°	981.0	982.2	974.8	972.3	968.6	997.1	1024.3	1090.0	1102.4	1180.4	1258.4
22.5°	1024.3	1010.7	1024.3	1004.5	984.7	997.1	1023.1	1091.2	1099.9	1179.1	1269.6
25°	1077.6	1080.1	1083.8	1041.7	1013.2	1004.5	1031.8	1094.9	1102.4	1189.1	1274.5
27.5°	1153.1	1164.3	1145.7	1124.6	1067.7	1024.3	1030.5	1092.4	1106.1	1184.1	1286.9
30°	1254.7	1246.0	1248.5	1200.2	1144.5	1076.3	1059.0	1098.6	1108.5	1190.3	1310.4
32.5°	1342.6	1332.7	1350.1	1332.7	1244.8	1150.7	1092.4	1111.0	1122.2	1205.2	1330.3
35°	1397.1	1409.5	1436.8	1455.4	1381.0	1247.3	1148.2	1144.5	1149.4	1212.6	1345.1
37.5°	1481.4	1503.7	1526.0	1573.0	1508.6	1366.2	1236.1	1187.8	1179.1	1248.5	1352.5
40°	1573.0	1566.8	1632.5	1688.2	1685.7	1533.4	1358.7	1264.6	1252.2	1305.5	1402.1
42.5°	1649.8	1643.6	1716.7	1808.4	1818.3	1694.4	1498.7	1373.6	1362.5	1393.4	1462.8
45°	1750.1	1755.1	1841.8	1950.8	1986.7	1907.4	1688.2	1529.7	1523.5	1513.6	1578.0
47.5°	1839.3	1866.6	1940.9	2069.7	2199.7	2127.9	1911.2	1757.6	1714.2	1691.9	1756.3
50°	1901.2	1926.0	2016.4	2153.9	2391.7	2437.6	2161.4	2000.3	2001.6	1947.1	1981.8
52.5°	1901.2	1900.0	1973.1	2153.9	2525.5	2760.8	2495.8	2306.3	2316.2	2259.2	2261.7
55°	1717.9	1714.2	1803.4	1995.4	2510.6	3071.7	3002.4	2693.9	2669.2	2558.9	2570.1
57.5°	1383.5	1392.2	1460.3	1690.7	2317.4	3216.6	3605.6	3129.9	3045.7	2817.8	2817.8
60°	1009.5	1002.0	1052.8	1213.8	1856.7	3162.1	4101.0	3643.9	3511.4	3032.1	2999.9
62.5°	767.9	766.7	780.3	834.8	1177.9	2757.1	4314.0	4297.9	4082.4	3242.6	3196.8
65°	620.5	623.0	641.6	680.0	719.6	1880.2	4201.3	5078.2	4881.3	3556.0	3406.1
67.5°	506.6	512.8	535.1	618.1	609.4	973.5	3578.3	5525.4	5562.5	4034.1	3687.3
70°	390.2	400.1	426.1	543.7	587.1	647.8	2480.9	5302.4	5401.5	4331.4	3517.6
72.5°	265.1	263.8	319.6	440.9	593.3	593.3	1381.0	4270.7	4364.8	3993.2	3055.6
75°	143.7	152.3	211.8	333.2	543.7	573.5	786.5	3125.0	3257.5	3105.2	2363.2
77.5°	78.0	79.3	117.7	218.0	452.1	547.5	525.2	2125.4	2177.5	1872.8	1294.3
80°	40.9	42.1	61.9	142.4	312.1	507.8	437.2	1267.1	1217.5	718.4	427.3
82.5°	18.6	19.8	31.0	89.2	199.4	400.1	377.8	611.9	564.8	200.7	130.1
85°	7.4	7.4	13.6	53.3	116.4	196.9	323.3	307.2	256.4	60.7	64.4
87.5°	2.5	2.5	3.7	21.1	47.1	117.7	172.2	162.3	111.5	22.3	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676921
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1251.0	1264.6	1260.9	1258.4	1234.9	1232.4	1229.9	1207.6	1215.1	1196.5	1208.9
5°	1258.4	1265.8	1246.0	1208.9	1175.4	1138.3	1109.8	1090.0	1054.0	1040.4	1037.9
7.5°	1251.0	1251.0	1210.1	1150.7	1085.0	1024.3	947.5	893.0	852.2	821.2	832.3
10°	1241.1	1226.2	1184.1	1078.8	959.9	868.3	758.0	677.5	616.8	597.0	584.6
12.5°	1241.1	1215.1	1120.9	977.3	823.7	684.9	553.7	448.4	390.2	355.5	350.5
15°	1229.9	1191.5	1075.1	881.9	691.1	502.9	353.0	262.6	213.0	199.4	194.5
17.5°	1232.4	1186.6	1007.0	769.2	536.3	334.4	215.5	166.0	153.6	147.4	148.6
20°	1237.4	1186.6	946.3	658.9	386.4	208.1	148.6	140.0	133.8	131.3	132.5
22.5°	1253.5	1163.0	884.4	546.2	261.3	149.9	131.3	122.6	117.7	114.0	112.7
25°	1255.9	1159.3	824.9	434.7	179.6	126.3	115.2	105.3	99.1	94.1	92.9
27.5°	1252.2	1143.2	741.9	323.3	135.0	112.7	97.8	87.9	79.3	75.6	74.3
30°	1265.8	1113.5	671.3	232.9	114.0	97.8	83.0	71.8	64.4	59.5	59.5
32.5°	1267.1	1087.5	593.3	166.0	104.0	86.7	70.6	58.2	50.8	48.3	48.3
35°	1268.3	1064.0	506.6	126.3	92.9	74.3	58.2	48.3	43.4	39.6	39.6
37.5°	1272.0	1046.6	427.3	106.5	83.0	63.2	48.3	39.6	34.7	33.4	33.4
40°	1279.5	1023.1	344.3	94.1	71.8	53.3	40.9	33.4	28.5	27.2	26.0
42.5°	1299.3	1016.9	275.0	84.2	64.4	44.6	33.4	27.2	23.5	21.1	19.8
45°	1381.0	1033.0	213.0	78.0	54.5	37.2	28.5	22.3	17.3	16.1	14.9
47.5°	1514.8	1086.2	168.4	69.4	45.8	31.0	23.5	17.3	13.6	12.4	11.1
50°	1717.9	1207.6	137.5	61.9	38.4	26.0	18.6	13.6	9.9	8.7	8.7
52.5°	1984.2	1371.1	118.9	54.5	31.0	22.3	14.9	9.9	7.4	6.2	6.2
55°	2256.7	1564.3	111.5	47.1	26.0	18.6	11.1	7.4	5.0	3.7	3.7
57.5°	2506.9	1689.4	107.8	38.4	22.3	13.6	8.7	5.0	2.5	1.2	1.2
60°	2663.0	1781.1	96.6	31.0	17.3	11.1	6.2	2.5	1.2	0.0	0.0
62.5°	2868.6	1874.0	79.3	23.5	12.4	7.4	3.7	1.2	0.0	0.0	0.0
65°	3139.8	1978.0	61.9	18.6	9.9	5.0	2.5	1.2	0.0	0.0	0.0
67.5°	3269.9	1923.5	42.1	13.6	6.2	2.5	1.2	0.0	0.0	0.0	0.0
70°	3009.8	1620.1	29.7	9.9	3.7	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	2530.5	1269.6	22.3	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	1865.3	793.9	17.3	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	989.6	296.0	12.4	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	292.3	86.7	8.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.6	26.0	5.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.5	9.9	2.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	3.7	2.5	2.5	1.2	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)