

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: P676811

Luminaire Tested: **CCW-SA-1F-722-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676811
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4441.2 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

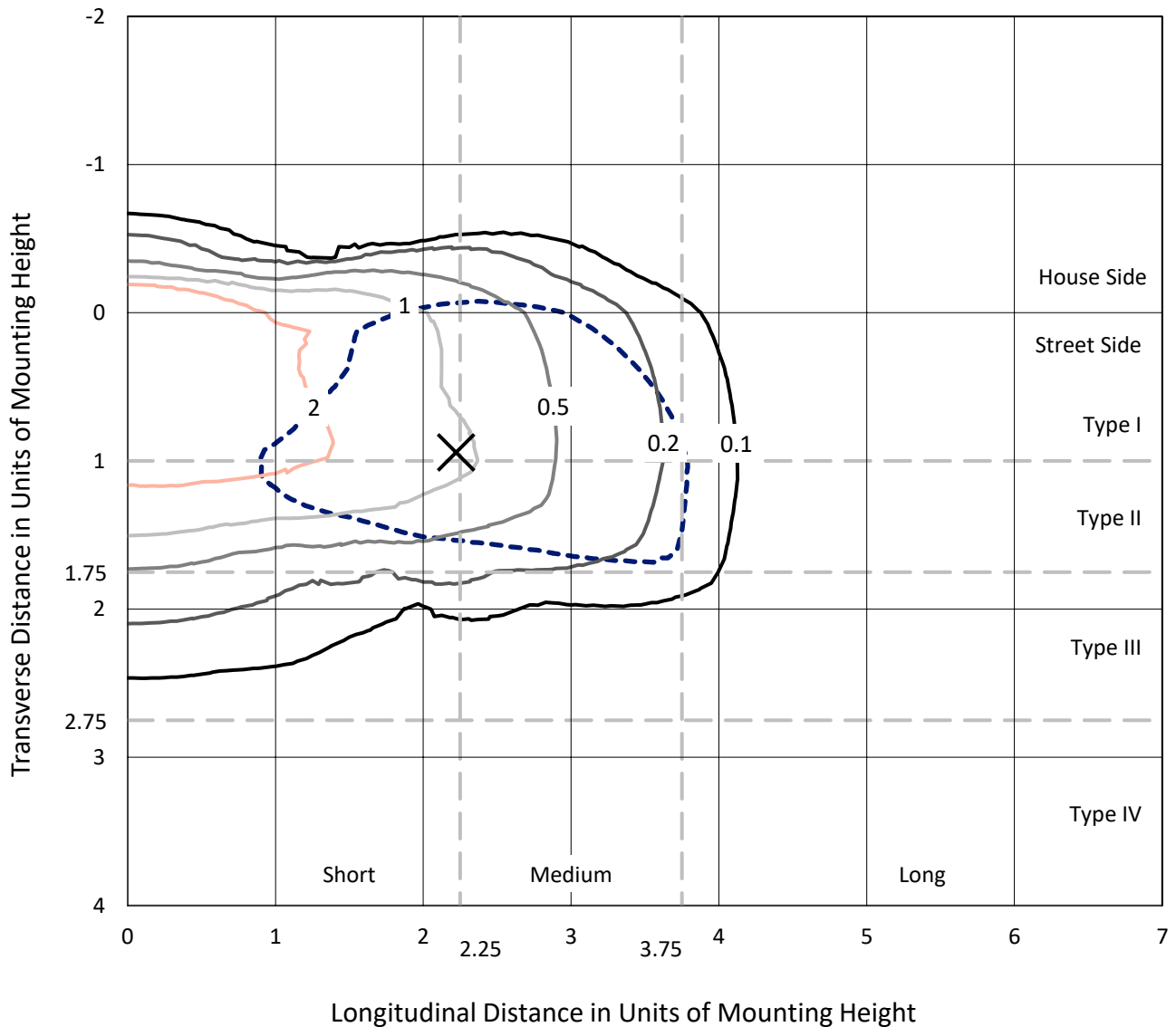
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

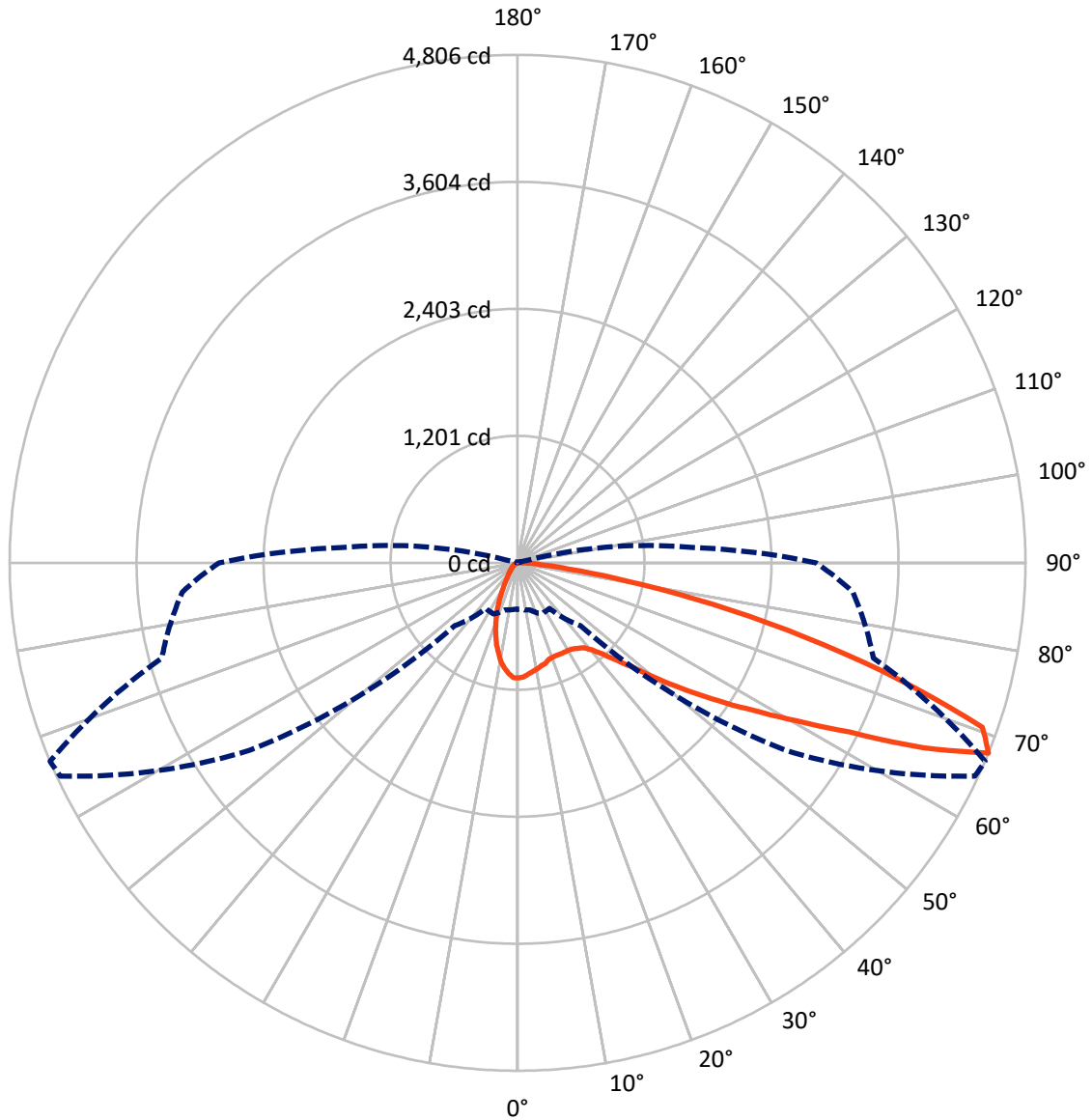
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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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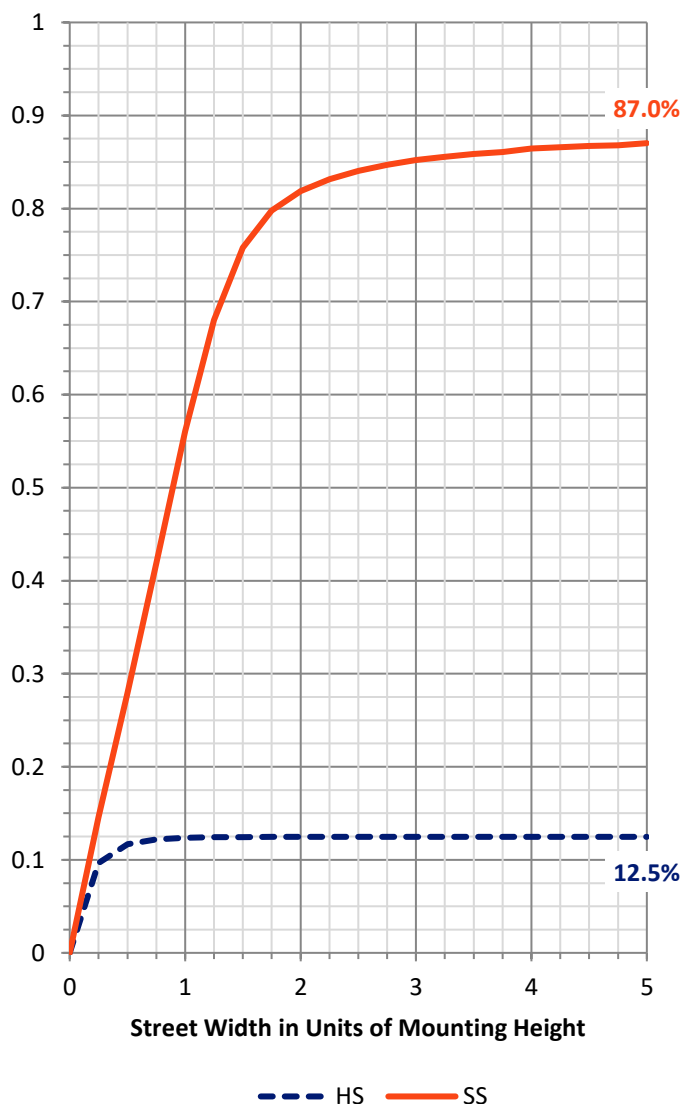
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	559.0	0.0	559.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3882.3	0.0	3882.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	4441.2	0.0	4441.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.1
10°-20°	203.9	4.6
20°-30°	289.9	6.5
30°-40°	422.2	9.5
40°-50°	653.4	14.7
50°-60°	1002.8	22.6
60°-70°	1087.0	24.5
70°-80°	613.2	13.8
80°-90°	77.1	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°	4441.2	100.0
0°-180°	4441.2	100.0

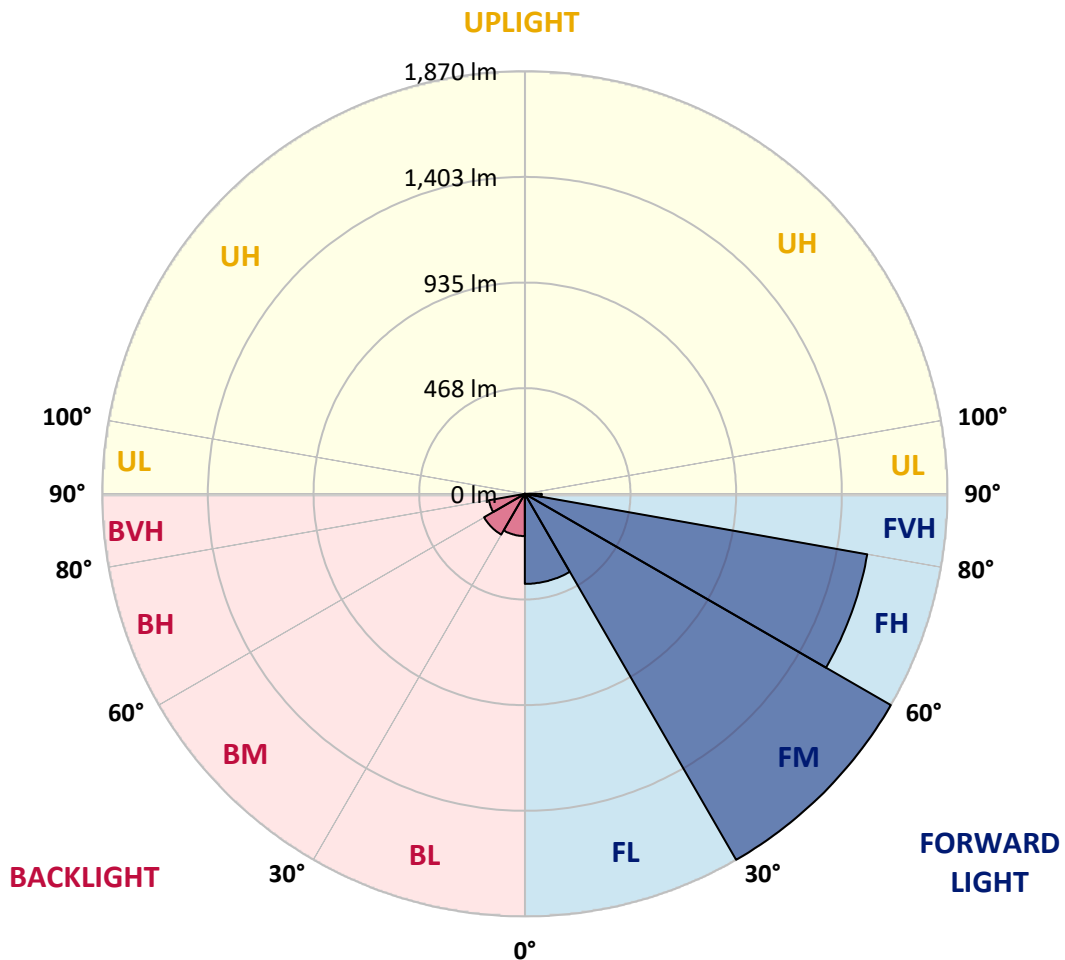


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.5	9.0			
FM (30°-60°)	1870.1	42.1			
FH (60°-80°)	1538.8	34.6			G1/1800
FVH (80°-90°)	74.8	1.7			G1/100
BL (0°-30°)	187.1	4.2	B1/500		
BM (30°-60°)	208.2	4.7	B0/220		
BH (60°-80°)	161.5	3.6	B1/500		G1/500
BVH (80°-90°)	2.2	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°	65°	67°	75°	85°
0°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1042.3	1047.6	1055.1	1065.8	1073.3	1069.0	1072.2	1090.4	1080.8	1089.3	1085.1
5°	984.5	989.8	1000.5	999.5	1008.0	1024.1	1045.5	1069.0	1058.3	1084.0	1093.6
7.5°	924.5	922.4	922.4	944.9	963.1	985.5	997.3	1035.8	1036.9	1059.4	1082.9
10°	870.0	876.4	887.1	895.7	912.8	944.9	979.1	1009.1	1020.9	1065.8	1072.2
12.5°	836.8	840.0	852.9	860.3	882.8	913.8	950.2	988.8	998.4	1044.4	1075.4
15°	822.9	830.4	834.7	848.6	860.3	889.2	916.0	959.9	987.7	1024.1	1062.6
17.5°	833.6	830.4	832.5	836.8	850.7	876.4	905.3	949.2	958.8	1019.8	1077.6
20°	847.5	848.6	842.2	840.0	836.8	861.4	885.0	941.7	952.4	1019.8	1087.2
22.5°	885.0	873.2	885.0	867.8	850.7	861.4	883.9	942.7	950.2	1018.7	1096.8
25°	931.0	933.1	936.3	899.9	875.3	867.8	891.4	946.0	952.4	1027.3	1101.1
27.5°	996.2	1005.9	989.8	971.6	922.4	885.0	890.3	943.8	955.6	1023.0	1111.8
30°	1084.0	1076.5	1078.6	1036.9	988.8	929.9	914.9	949.2	957.7	1028.3	1132.1
32.5°	1160.0	1151.4	1166.4	1151.4	1075.4	994.1	943.8	959.9	969.5	1041.2	1149.3
35°	1207.0	1217.8	1241.3	1257.3	1193.1	1077.6	992.0	988.8	993.0	1047.6	1162.1
37.5°	1279.8	1299.1	1318.3	1359.0	1303.4	1180.3	1067.9	1026.2	1018.7	1078.6	1168.5
40°	1359.0	1353.7	1410.4	1458.5	1456.4	1324.8	1173.9	1092.6	1081.9	1127.9	1211.3
42.5°	1425.3	1420.0	1483.1	1562.3	1570.9	1463.9	1294.8	1186.7	1177.1	1203.8	1263.8
45°	1512.0	1516.3	1591.2	1685.4	1716.4	1647.9	1458.5	1321.5	1316.2	1307.6	1363.3
47.5°	1589.1	1612.6	1676.8	1788.1	1900.5	1838.4	1651.1	1518.4	1481.0	1461.7	1517.4
50°	1642.6	1664.0	1742.1	1860.9	2066.3	2105.9	1867.3	1728.2	1729.2	1682.2	1712.1
52.5°	1642.6	1641.5	1704.6	1860.9	2181.9	2385.2	2156.2	1992.5	2001.0	1951.8	1954.0
55°	1484.2	1481.0	1558.0	1723.9	2169.1	2653.8	2593.9	2327.4	2306.0	2210.8	2220.4
57.5°	1195.3	1202.8	1261.6	1460.7	2002.1	2779.0	3115.0	2704.1	2631.3	2434.4	2434.4
60°	872.1	865.7	909.6	1048.7	1604.0	2731.9	3543.0	3148.2	3033.7	2619.6	2591.7
62.5°	663.4	662.4	674.2	721.2	1017.6	2382.0	3727.1	3713.2	3527.0	2801.5	2761.9
65°	536.1	538.3	554.3	587.5	621.7	1624.4	3629.7	4387.3	4217.2	3072.2	2942.7
67.5°	437.7	443.0	462.3	534.0	526.5	841.1	3091.5	4773.6	4805.7	3485.2	3185.6
70°	337.1	345.6	368.1	469.8	507.2	559.7	2143.4	4581.0	4666.6	3742.1	3039.0
72.5°	229.0	227.9	276.1	380.9	512.6	512.6	1193.1	3689.6	3771.0	3449.9	2639.9
75°	124.1	131.6	183.0	287.9	469.8	495.4	679.5	2699.8	2814.3	2682.7	2041.7
77.5°	67.4	68.5	101.7	188.3	390.6	473.0	453.7	1836.3	1881.2	1618.0	1118.2
80°	35.3	36.4	53.5	123.1	269.7	438.7	377.7	1094.7	1051.9	620.6	369.2
82.5°	16.1	17.1	26.8	77.0	172.3	345.6	326.4	528.6	488.0	173.4	112.4
85°	6.4	6.4	11.8	46.0	100.6	170.1	279.3	265.4	221.5	52.4	55.6
87.5°	2.1	2.1	3.2	18.2	40.7	101.7	148.7	140.2	96.3	19.3	30.0
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°	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3	1089.3
2.5°	1080.8	1092.6	1089.3	1087.2	1066.9	1064.7	1062.6	1043.3	1049.7	1033.7	1044.4
5°	1087.2	1093.6	1076.5	1044.4	1015.5	983.4	958.8	941.7	910.6	898.9	896.7
7.5°	1080.8	1080.8	1045.5	994.1	937.4	885.0	818.6	771.5	736.2	709.5	719.1
10°	1072.2	1059.4	1023.0	932.0	829.3	750.1	654.9	585.3	532.9	515.8	505.1
12.5°	1072.2	1049.7	968.4	844.3	711.6	591.8	478.3	387.4	337.1	307.1	302.8
15°	1062.6	1029.4	928.8	761.9	597.1	434.5	305.0	226.9	184.1	172.3	168.0
17.5°	1064.7	1025.1	870.0	664.5	463.3	288.9	186.2	143.4	132.7	127.3	128.4
20°	1069.0	1025.1	817.5	569.3	333.9	179.8	128.4	120.9	115.6	113.4	114.5
22.5°	1082.9	1004.8	764.0	471.9	225.8	129.5	113.4	105.9	101.7	98.4	97.4
25°	1085.1	1001.6	712.7	375.6	155.2	109.1	99.5	91.0	85.6	81.3	80.3
27.5°	1081.9	987.7	641.0	279.3	116.6	97.4	84.5	76.0	68.5	65.3	64.2
30°	1093.6	962.0	580.0	201.2	98.4	84.5	71.7	62.1	55.6	51.4	51.4
32.5°	1094.7	939.5	512.6	143.4	89.9	74.9	61.0	50.3	43.9	41.7	41.7
35°	1095.8	919.2	437.7	109.1	80.3	64.2	50.3	41.7	37.5	34.2	34.2
37.5°	1099.0	904.2	369.2	92.0	71.7	54.6	41.7	34.2	30.0	28.9	28.9
40°	1105.4	883.9	297.5	81.3	62.1	46.0	35.3	28.9	24.6	23.5	22.5
42.5°	1122.5	878.5	237.6	72.8	55.6	38.5	28.9	23.5	20.3	18.2	17.1
45°	1193.1	892.4	184.1	67.4	47.1	32.1	24.6	19.3	15.0	13.9	12.8
47.5°	1308.7	938.5	145.5	59.9	39.6	26.8	20.3	15.0	11.8	10.7	9.6
50°	1484.2	1043.3	118.8	53.5	33.2	22.5	16.1	11.8	8.6	7.5	7.5
52.5°	1714.3	1184.6	102.7	47.1	26.8	19.3	12.8	8.6	6.4	5.4	5.4
55°	1949.7	1351.5	96.3	40.7	22.5	16.1	9.6	6.4	4.3	3.2	3.2
57.5°	2165.8	1459.6	93.1	33.2	19.3	11.8	7.5	4.3	2.1	1.1	1.1
60°	2300.7	1538.8	83.5	26.8	15.0	9.6	5.4	2.1	1.1	0.0	0.0
62.5°	2478.3	1619.0	68.5	20.3	10.7	6.4	3.2	1.1	0.0	0.0	0.0
65°	2712.7	1708.9	53.5	16.1	8.6	4.3	2.1	1.1	0.0	0.0	0.0
67.5°	2825.0	1661.8	36.4	11.8	5.4	2.1	1.1	0.0	0.0	0.0	0.0
70°	2600.3	1399.7	25.7	8.6	3.2	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2186.2	1096.8	19.3	5.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1611.5	685.9	15.0	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	855.0	255.7	10.7	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	252.5	74.9	7.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.5	22.5	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.8	8.6	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	3.2	2.1	2.1	1.1	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)