

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: P676920

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676920
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-840-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

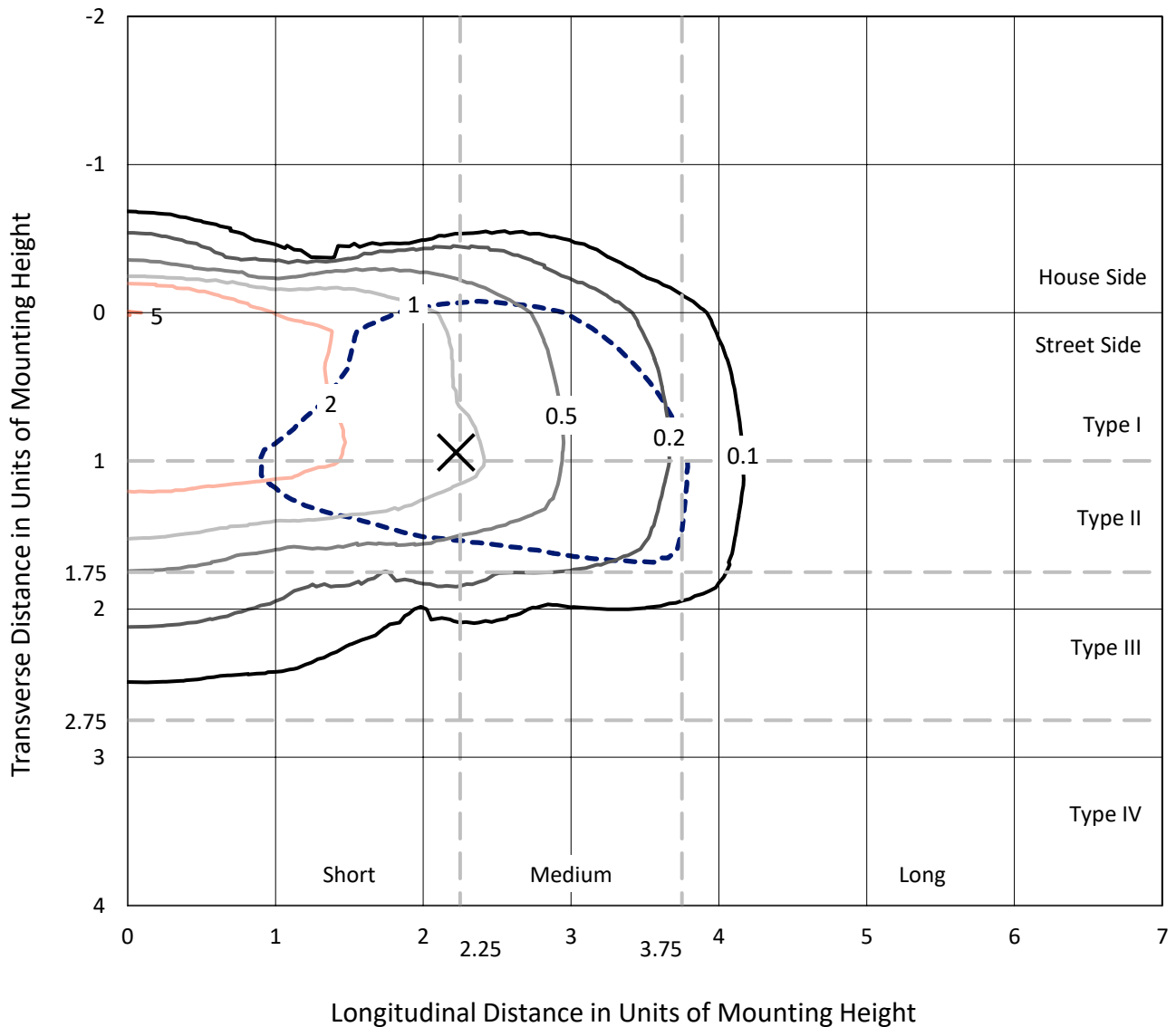
Lumens per Lamp: N/A
Luminaire Lumens: 4687.6 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

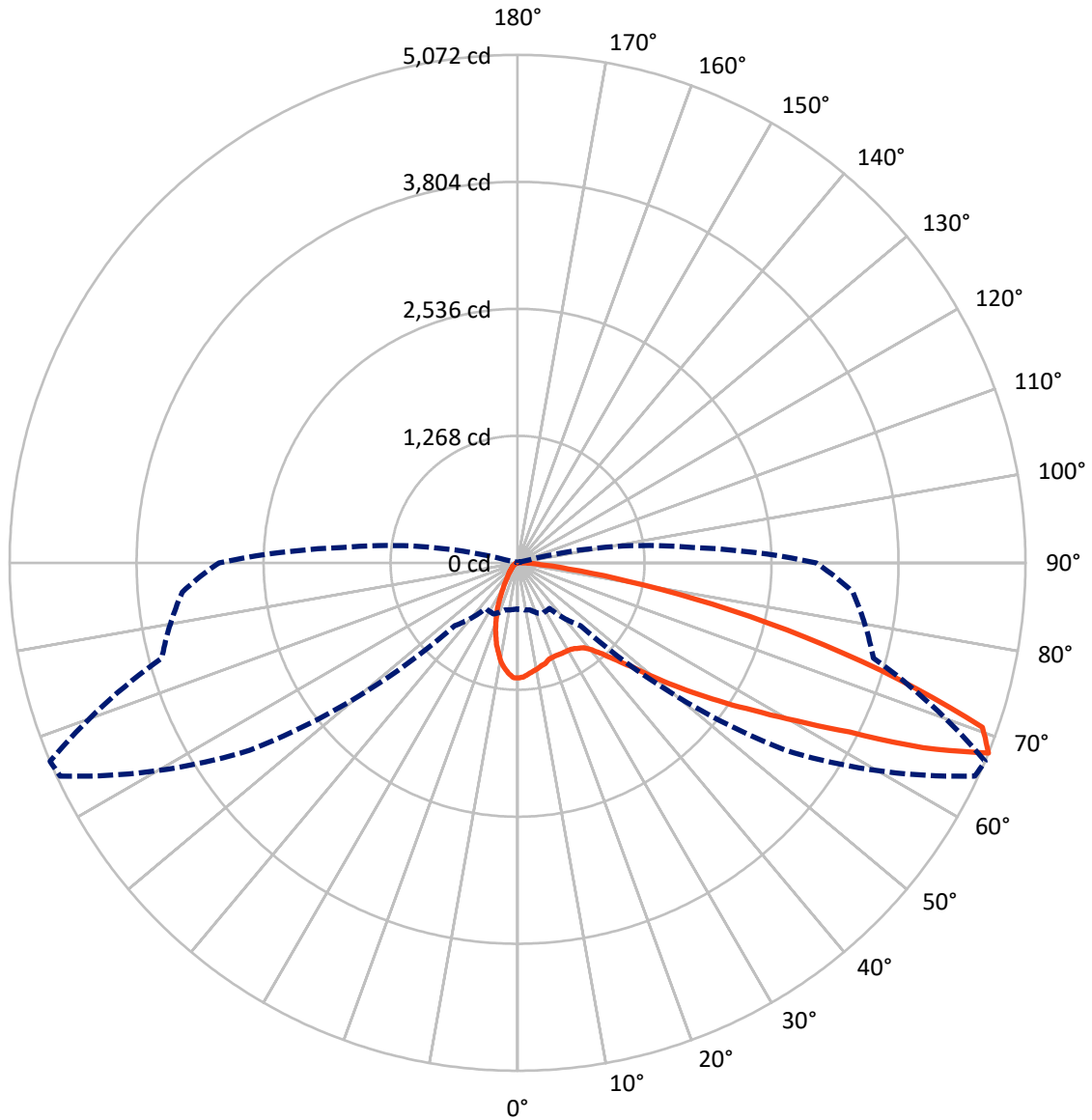
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 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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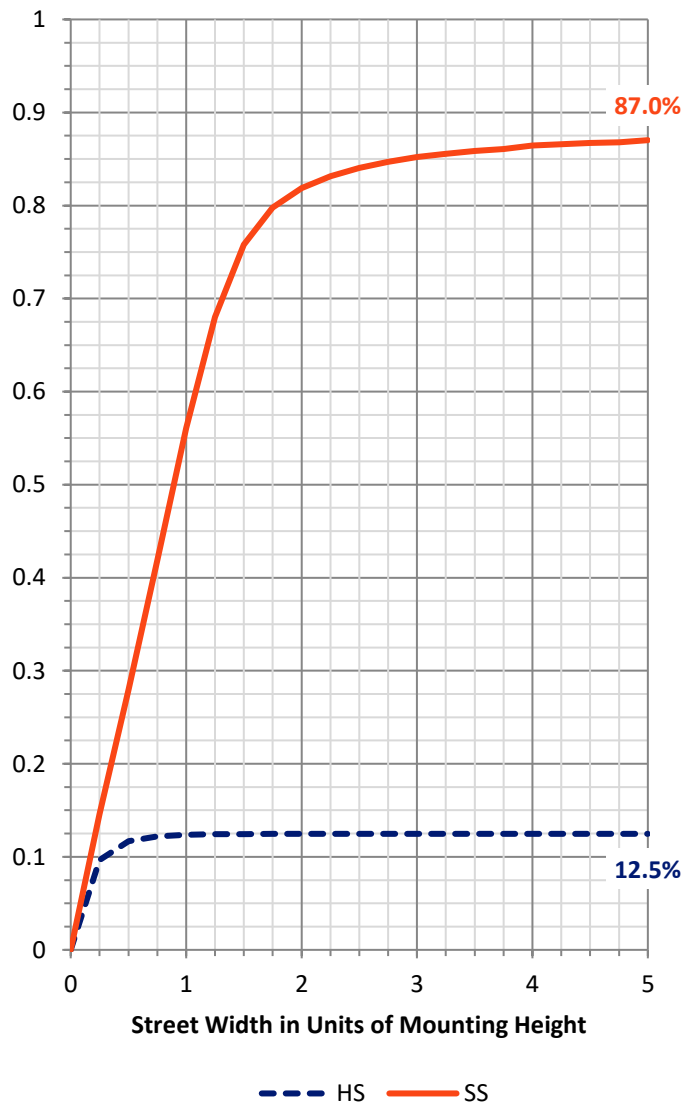
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.0	0.0	590.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4097.7	0.0	4097.7
	% Fixture	87.4	0.0	87.4
Total	Lumens	4687.6	0.0	4687.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	2.1
10°-20°	215.2	4.6
20°-30°	306.0	6.5
30°-40°	445.6	9.5
40°-50°	689.6	14.7
50°-60°	1058.4	22.6
60°-70°	1147.3	24.5
70°-80°	647.3	13.8
80°-90°	81.3	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°	4687.6	100.0
0°-180°	4687.6	100.0

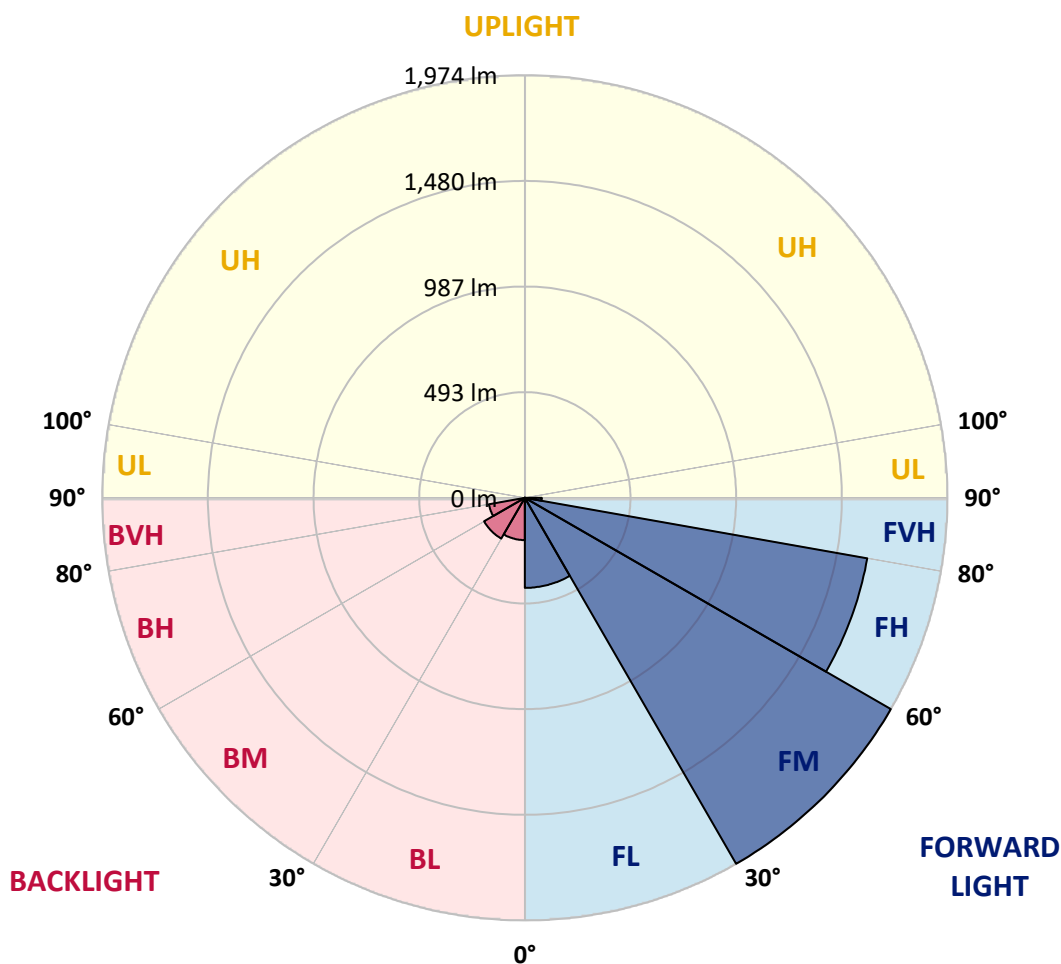


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.6	9.0			
FM (30°-60°)	1973.9	42.1			
FH (60°-80°)	1624.2	34.6			G1/1800
FVH (80°-90°)	79.0	1.7			G1/100
BL (0°-30°)	197.5	4.2	B1/500		
BM (30°-60°)	219.7	4.7	B0/220		
BH (60°-80°)	170.4	3.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8
2.5°	1100.1	1105.7	1113.6	1124.9	1132.8	1128.3	1131.7	1150.9	1140.8	1149.8	1145.3
5°	1039.1	1044.7	1056.0	1054.9	1064.0	1080.9	1103.5	1128.3	1117.0	1144.1	1154.3
7.5°	975.9	973.6	973.6	997.3	1016.5	1040.2	1052.7	1093.3	1094.4	1118.2	1143.0
10°	918.3	925.0	936.3	945.4	963.4	997.3	1033.5	1065.1	1077.5	1124.9	1131.7
12.5°	883.2	886.6	900.2	908.1	931.8	964.6	1003.0	1043.6	1053.8	1102.4	1135.1
15°	868.6	876.5	881.0	895.7	908.1	938.6	966.8	1013.1	1042.5	1080.9	1121.6
17.5°	879.8	876.5	878.7	883.2	897.9	925.0	955.5	1001.8	1012.0	1076.4	1137.4
20°	894.5	895.7	888.9	886.6	883.2	909.2	934.1	993.9	1005.2	1076.4	1147.5
22.5°	934.1	921.6	934.1	916.0	897.9	909.2	932.9	995.1	1003.0	1075.2	1157.7
25°	982.6	984.9	988.3	949.9	923.9	916.0	940.8	998.4	1005.2	1084.3	1162.2
27.5°	1051.5	1061.7	1044.7	1025.5	973.6	934.1	939.7	996.2	1008.6	1079.8	1173.5
30°	1144.1	1136.2	1138.5	1094.4	1043.6	981.5	965.7	1001.8	1010.9	1085.4	1195.0
32.5°	1224.3	1215.3	1231.1	1215.3	1135.1	1049.3	996.2	1013.1	1023.3	1099.0	1213.0
35°	1274.0	1285.3	1310.2	1327.1	1259.3	1137.4	1047.0	1043.6	1048.1	1105.7	1226.6
37.5°	1350.8	1371.2	1391.5	1434.4	1375.7	1245.8	1127.2	1083.2	1075.2	1138.5	1233.4
40°	1434.4	1428.8	1488.6	1539.5	1537.2	1398.3	1239.0	1153.2	1141.9	1190.4	1278.5
42.5°	1504.4	1498.8	1565.4	1649.0	1658.0	1545.1	1366.6	1252.6	1242.4	1270.6	1333.9
45°	1595.9	1600.4	1679.5	1778.9	1811.7	1739.4	1539.5	1394.9	1389.2	1380.2	1438.9
47.5°	1677.2	1702.1	1769.9	1887.3	2005.9	1940.4	1742.8	1602.7	1563.2	1542.8	1601.6
50°	1733.7	1756.3	1838.8	1964.1	2181.0	2222.8	1970.9	1824.1	1825.2	1775.5	1807.1
52.5°	1733.7	1732.6	1799.2	1964.1	2303.0	2517.6	2275.9	2103.1	2112.1	2060.1	2062.4
55°	1566.6	1563.2	1644.5	1819.6	2289.4	2801.1	2737.8	2456.6	2434.0	2333.5	2343.6
57.5°	1261.6	1269.5	1331.6	1541.7	2113.2	2933.2	3287.9	2854.1	2777.3	2569.5	2569.5
60°	920.5	913.7	960.0	1106.9	1693.1	2883.5	3739.6	3322.9	3202.0	2764.9	2735.6
62.5°	700.3	699.1	711.6	761.3	1074.1	2514.2	3933.9	3919.2	3722.7	2956.9	2915.1
65°	565.9	568.1	585.1	620.1	656.2	1714.5	3831.1	4630.8	4451.2	3242.7	3106.0
67.5°	461.9	467.6	487.9	563.6	555.7	887.8	3263.0	5038.5	5072.4	3678.6	3362.4
70°	355.8	364.8	388.5	495.8	535.4	590.7	2262.3	4835.2	4925.6	3949.7	3207.7
72.5°	241.7	240.6	291.4	402.1	541.0	541.0	1259.3	3894.4	3980.2	3641.4	2786.4
75°	131.0	138.9	193.1	303.8	495.8	522.9	717.2	2849.6	2970.5	2831.6	2155.0
77.5°	71.2	72.3	107.3	198.8	412.3	499.2	478.9	1938.2	1985.6	1707.7	1180.3
80°	37.3	38.4	56.5	129.9	284.6	463.1	398.7	1155.4	1110.3	655.1	389.7
82.5°	16.9	18.1	28.2	81.3	181.8	364.8	344.5	558.0	515.0	183.0	118.6
85°	6.8	6.8	12.4	48.6	106.2	179.6	294.8	280.1	233.8	55.3	58.7
87.5°	2.3	2.3	3.4	19.2	42.9	107.3	157.0	148.0	101.7	20.3	31.6
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°	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8	1149.8
2.5°	1140.8	1153.2	1149.8	1147.5	1126.1	1123.8	1121.6	1101.2	1108.0	1091.1	1102.4
5°	1147.5	1154.3	1136.2	1102.4	1071.9	1038.0	1012.0	993.9	961.2	948.7	946.5
7.5°	1140.8	1140.8	1103.5	1049.3	989.4	934.1	864.0	814.3	777.1	748.8	759.0
10°	1131.7	1118.2	1079.8	983.8	875.3	791.8	691.2	617.8	562.5	544.4	533.1
12.5°	1131.7	1108.0	1022.2	891.1	751.1	624.6	504.9	408.9	355.8	324.2	319.6
15°	1121.6	1086.5	980.4	804.2	630.2	458.6	321.9	239.4	194.3	181.8	177.3
17.5°	1123.8	1082.0	918.3	701.4	489.1	305.0	196.5	151.3	140.1	134.4	135.5
20°	1128.3	1082.0	862.9	600.9	352.4	189.7	135.5	127.6	122.0	119.7	120.9
22.5°	1143.0	1060.6	806.4	498.1	238.3	136.7	119.7	111.8	107.3	103.9	102.8
25°	1145.3	1057.2	752.2	396.4	163.8	115.2	105.0	96.0	90.4	85.8	84.7
27.5°	1141.9	1042.5	676.5	294.8	123.1	102.8	89.2	80.2	72.3	68.9	67.8
30°	1154.3	1015.4	612.2	212.3	103.9	89.2	75.7	65.5	58.7	54.2	54.2
32.5°	1155.4	991.7	541.0	151.3	94.9	79.1	64.4	53.1	46.3	44.0	44.0
35°	1156.6	970.2	461.9	115.2	84.7	67.8	53.1	44.0	39.5	36.1	36.1
37.5°	1160.0	954.4	389.7	97.1	75.7	57.6	44.0	36.1	31.6	30.5	30.5
40°	1166.7	932.9	314.0	85.8	65.5	48.6	37.3	30.5	26.0	24.8	23.7
42.5°	1184.8	927.3	250.7	76.8	58.7	40.7	30.5	24.8	21.5	19.2	18.1
45°	1259.3	942.0	194.3	71.2	49.7	33.9	26.0	20.3	15.8	14.7	13.6
47.5°	1381.3	990.5	153.6	63.2	41.8	28.2	21.5	15.8	12.4	11.3	10.2
50°	1566.6	1101.2	125.4	56.5	35.0	23.7	16.9	12.4	9.0	7.9	7.9
52.5°	1809.4	1250.3	108.4	49.7	28.2	20.3	13.6	9.0	6.8	5.6	5.6
55°	2057.9	1426.5	101.7	42.9	23.7	16.9	10.2	6.8	4.5	3.4	3.4
57.5°	2286.0	1540.6	98.3	35.0	20.3	12.4	7.9	4.5	2.3	1.1	1.1
60°	2428.3	1624.2	88.1	28.2	15.8	10.2	5.6	2.3	1.1	0.0	0.0
62.5°	2615.8	1708.9	72.3	21.5	11.3	6.8	3.4	1.1	0.0	0.0	0.0
65°	2863.2	1803.7	56.5	16.9	9.0	4.5	2.3	1.1	0.0	0.0	0.0
67.5°	2981.8	1754.1	38.4	12.4	5.6	2.3	1.1	0.0	0.0	0.0	0.0
70°	2744.6	1477.3	27.1	9.0	3.4	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2307.5	1157.7	20.3	5.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	1701.0	724.0	15.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	902.4	269.9	11.3	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	266.6	79.1	7.9	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.1	23.7	4.5	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.2	9.0	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	3.4	2.3	2.3	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)