

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: P677222

Luminaire Tested: **CCW-SA-2B-850-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677222
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-850-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4977.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

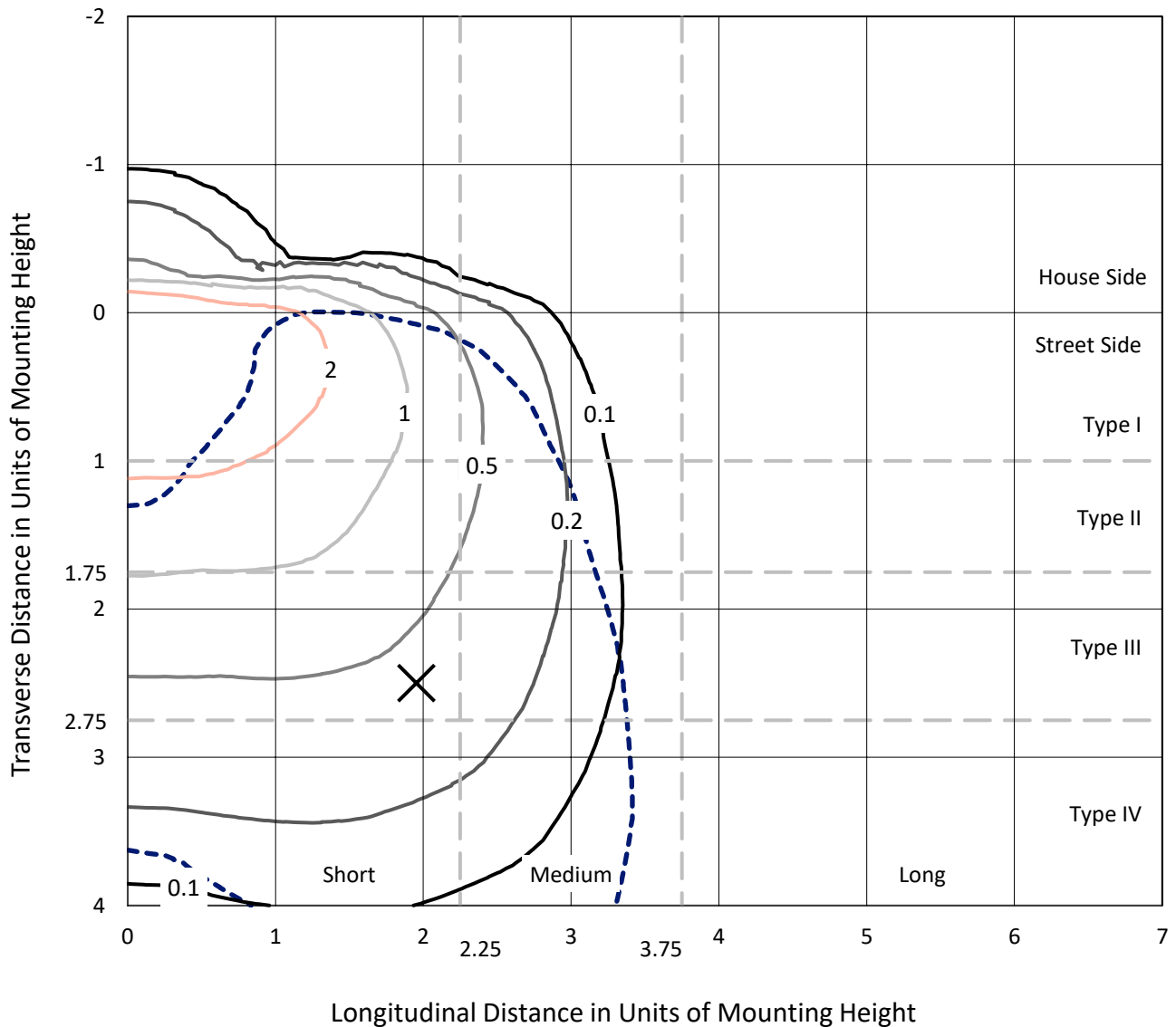
Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

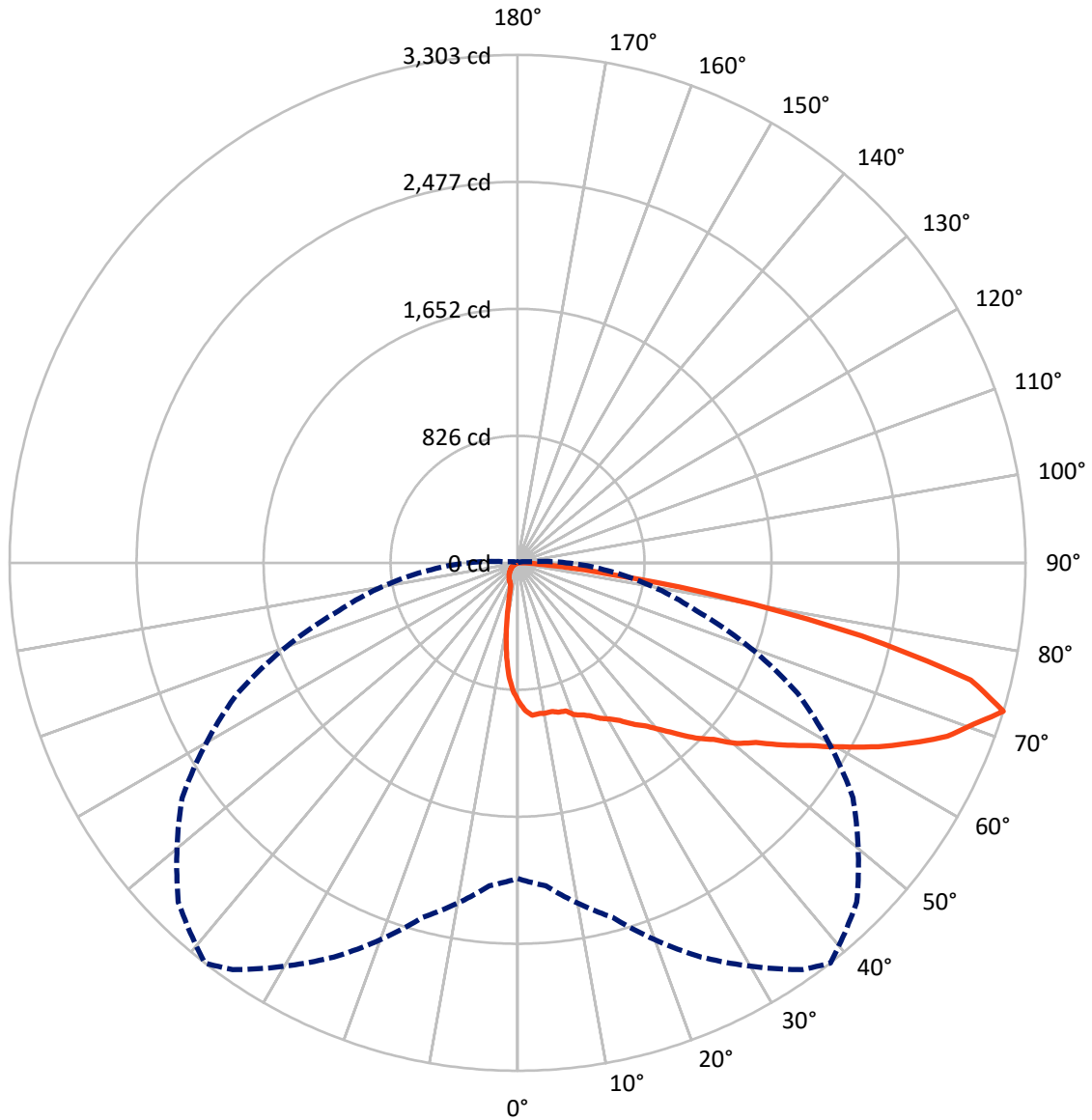
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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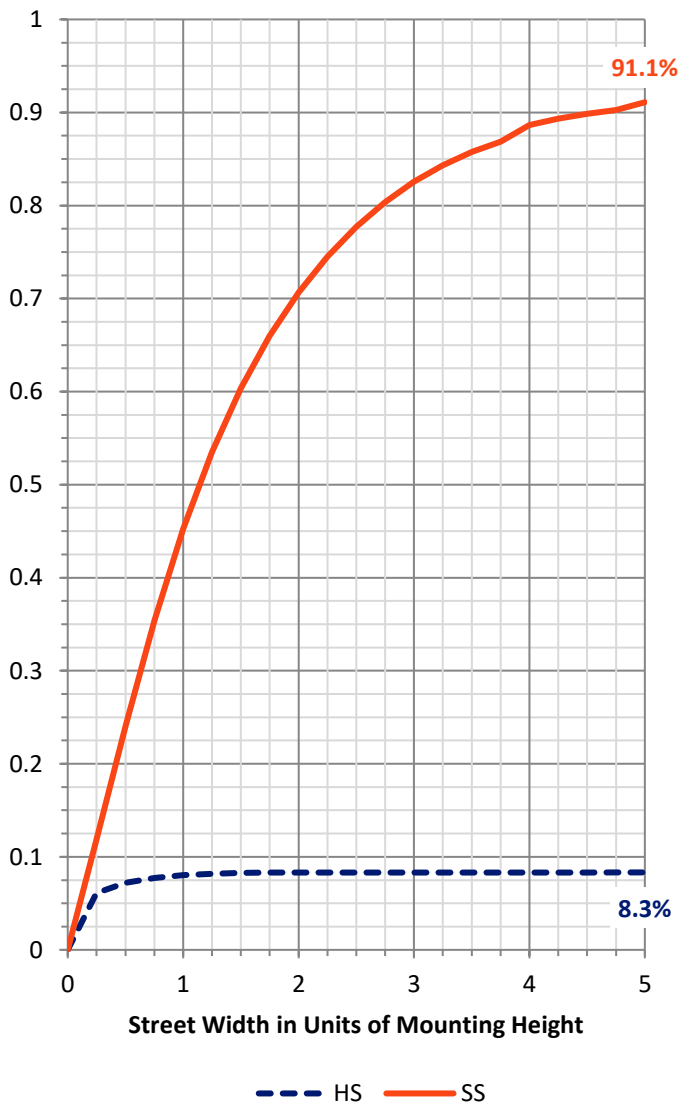
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.9	0.0	416.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4561.0	0.0	4561.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4977.9	0.0	4977.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.6
10°-20°	192.9	3.9
20°-30°	309.3	6.2
30°-40°	466.9	9.4
40°-50°	710.6	14.3
50°-60°	1000.5	20.1
60°-70°	1222.1	24.6
70°-80°	887.4	17.8
80°-90°	109.3	2.2
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°	4977.9	100.0
0°-180°	4977.9	100.0

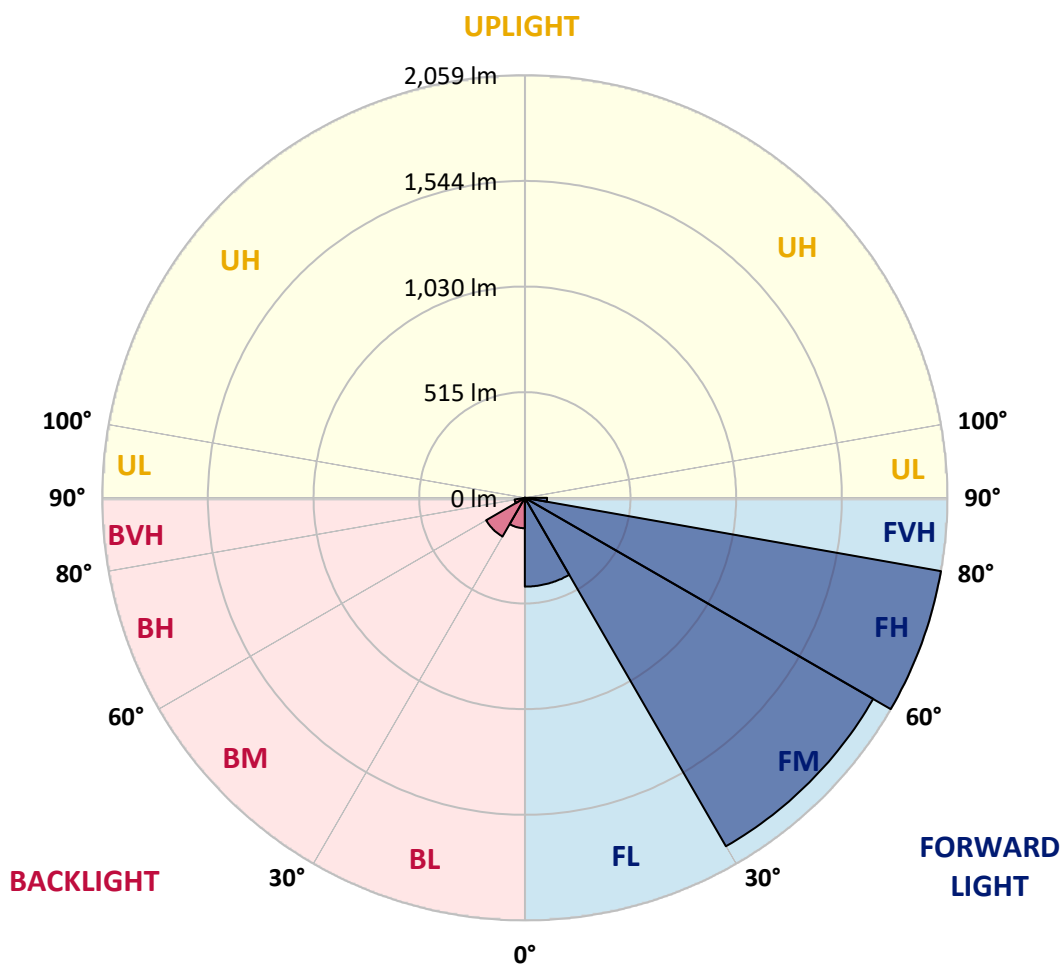


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	433.0	8.7			
FM (30°-60°)	1960.3	39.4			
FH (60°-80°)	2059.0	41.4			G2/5000
FVH (80°-90°)	108.7	2.2			G2/225
BL (0°-30°)	148.0	3.0	B1/500		
BM (30°-60°)	217.8	4.4	B0/220		
BH (60°-80°)	50.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
2.5°	988.9	988.9	998.3	988.9	985.4	963.3	964.4	952.7	941.1	924.7	909.5
5°	1000.6	1008.8	1014.6	1006.5	993.6	995.9	1004.1	981.9	950.4	930.6	896.7
7.5°	995.9	1013.5	1008.8	1004.1	995.9	990.1	978.4	969.1	953.9	935.2	895.5
10°	992.4	998.3	999.4	995.9	978.4	994.8	981.9	966.8	948.1	925.9	876.9
12.5°	979.6	979.6	990.1	981.9	984.3	992.4	986.6	983.1	963.3	944.6	901.4
15°	965.6	970.3	986.6	999.4	1011.1	1007.6	1004.1	993.6	976.1	955.1	909.5
17.5°	969.1	971.4	997.1	1020.5	1014.6	1012.3	1031.0	1008.8	991.3	967.9	916.5
20°	981.9	988.9	1018.1	1048.5	1054.3	1054.3	1047.3	1034.5	1010.0	978.4	929.4
22.5°	994.8	997.1	1045.0	1083.5	1089.4	1074.2	1080.0	1042.6	1019.3	1001.8	942.2
25°	1043.8	1039.1	1090.5	1120.9	1117.4	1102.2	1096.4	1063.7	1054.3	1022.8	970.3
27.5°	1110.4	1090.5	1140.7	1159.4	1140.7	1145.4	1129.0	1094.0	1074.2	1055.5	983.1
30°	1151.2	1162.9	1189.8	1208.4	1176.9	1178.1	1169.9	1131.4	1101.0	1105.7	1026.3
32.5°	1214.3	1222.5	1242.3	1250.5	1226.0	1223.6	1215.5	1185.1	1162.9	1158.2	1084.7
35°	1282.0	1297.2	1298.3	1300.7	1278.5	1287.8	1276.2	1233.0	1244.6	1252.8	1154.7
37.5°	1348.6	1334.5	1357.9	1368.4	1343.9	1343.9	1347.4	1318.2	1339.2	1363.7	1254.0
40°	1374.2	1380.1	1420.9	1412.8	1442.0	1424.4	1437.3	1430.3	1447.8	1503.8	1394.1
42.5°	1401.1	1408.1	1463.0	1478.2	1513.2	1519.0	1537.7	1538.9	1590.2	1682.5	1528.4
45°	1452.5	1440.8	1515.5	1552.9	1610.1	1626.4	1648.6	1667.3	1747.9	1856.5	1681.3
47.5°	1499.2	1482.8	1568.1	1642.8	1712.8	1716.3	1777.1	1796.9	1892.6	2016.4	1833.1
50°	1564.6	1570.4	1606.6	1735.0	1806.2	1847.1	1889.1	1954.5	2060.8	2192.7	1942.9
52.5°	1632.3	1626.4	1687.2	1813.3	1925.3	1940.5	2035.1	2108.6	2224.2	2323.5	1991.9
55°	1715.2	1722.2	1745.5	1911.3	2053.8	2090.0	2196.2	2273.3	2399.4	2379.5	2008.2
57.5°	1798.1	1791.1	1843.6	2021.1	2214.9	2241.8	2383.0	2428.6	2513.8	2416.9	1967.4
60°	1879.8	1892.6	1914.8	2144.8	2391.2	2430.9	2543.0	2566.3	2585.0	2434.4	1935.8
62.5°	1973.2	1942.9	2011.7	2275.6	2550.0	2632.9	2721.6	2629.4	2613.0	2402.9	1863.5
65°	2019.9	2029.3	2119.2	2425.1	2761.3	2822.0	2833.7	2714.6	2630.6	2332.8	1795.7
67.5°	2092.3	2105.1	2219.6	2578.0	2978.5	3012.4	2970.3	2791.7	2615.4	2241.8	1551.7
70°	2101.6	2133.2	2353.8	2738.0	3115.1	3144.3	3111.6	2843.1	2492.8	1883.3	1148.9
72.5°	2052.6	2108.6	2386.5	2829.0	3229.5	3303.1	3119.8	2662.1	2009.4	1201.4	588.5
75°	1550.5	1597.2	2184.5	2693.6	3026.4	3043.9	2739.1	2031.6	1144.2	409.8	150.6
77.5°	803.3	883.9	1458.3	2058.4	2306.0	2287.3	1906.7	1196.8	393.5	107.4	60.7
80°	461.2	481.0	637.5	1155.9	1450.1	1378.9	1054.3	516.1	172.8	53.7	39.7
82.5°	227.7	255.7	343.3	517.2	725.1	596.6	395.8	309.4	96.9	29.2	35.0
85°	49.0	51.4	175.1	247.5	294.2	193.8	135.4	260.4	35.0	17.5	33.9
87.5°	35.0	33.9	49.0	110.9	81.7	50.2	80.6	136.6	8.2	8.2	7.0
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°	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2	900.2
2.5°	900.2	889.7	878.0	855.8	850.0	846.5	826.6	825.5	822.0	813.8	810.3
5°	875.7	858.2	836.0	812.6	794.0	760.1	719.2	698.2	672.5	673.7	665.5
7.5°	872.2	839.5	808.0	758.9	699.4	636.3	573.3	532.4	503.2	485.7	489.2
10°	855.8	831.3	779.9	688.9	593.1	497.4	416.8	356.1	321.1	294.2	302.4
12.5°	862.8	815.0	742.6	621.2	484.5	366.6	266.2	207.8	182.1	172.8	175.1
15°	858.2	815.0	720.4	547.6	380.6	248.7	172.8	154.1	149.5	149.5	147.1
17.5°	872.2	824.3	683.0	475.2	273.2	165.8	148.3	144.8	141.3	141.3	141.3
20°	892.0	829.0	657.3	394.6	192.7	145.9	138.9	136.6	135.4	135.4	134.3
22.5°	893.2	824.3	609.5	305.9	148.3	137.8	131.9	130.8	130.8	128.4	128.4
25°	900.2	829.0	558.1	230.0	137.8	129.6	124.9	123.8	124.9	123.8	122.6
27.5°	917.7	837.2	506.7	168.1	129.6	122.6	119.1	117.9	117.9	117.9	115.6
30°	939.9	837.2	449.5	138.9	122.6	115.6	112.1	110.9	109.8	109.8	109.8
32.5°	986.6	864.0	379.5	123.8	113.3	107.4	103.9	103.9	102.7	102.7	101.6
35°	1045.0	882.7	308.2	114.4	105.1	99.2	95.7	95.7	94.6	94.6	93.4
37.5°	1117.4	929.4	235.9	107.4	96.9	91.1	87.6	87.6	87.6	86.4	86.4
40°	1220.1	977.3	175.1	98.1	88.7	82.9	80.6	79.4	78.2	78.2	75.9
42.5°	1329.9	1050.8	130.8	91.1	81.7	77.1	73.6	70.1	70.1	66.6	66.6
45°	1449.0	1115.0	106.2	82.9	74.7	68.9	65.4	63.0	59.5	57.2	57.2
47.5°	1565.7	1154.7	93.4	73.6	67.7	63.0	59.5	54.9	50.2	49.0	47.9
50°	1660.3	1166.4	82.9	66.6	61.9	57.2	52.5	46.7	42.0	39.7	38.5
52.5°	1660.3	1102.2	74.7	59.5	56.0	51.4	45.5	38.5	32.7	30.4	29.2
55°	1660.3	1000.6	66.6	54.9	50.2	46.7	38.5	31.5	25.7	22.2	21.0
57.5°	1635.8	878.0	59.5	49.0	44.4	39.7	32.7	24.5	18.7	15.2	15.2
60°	1568.1	749.6	51.4	43.2	38.5	32.7	25.7	17.5	11.7	8.2	8.2
62.5°	1481.7	596.6	44.4	36.2	31.5	26.9	19.8	11.7	4.7	2.3	2.3
65°	1331.0	440.2	38.5	30.4	24.5	19.8	12.8	4.7	0.0	0.0	0.0
67.5°	1098.7	294.2	30.4	24.5	21.0	14.0	8.2	1.2	0.0	0.0	0.0
70°	772.9	167.0	23.4	17.5	15.2	9.3	2.3	0.0	0.0	0.0	0.0
72.5°	317.6	73.6	16.3	12.8	10.5	4.7	0.0	0.0	0.0	0.0	0.0
75°	86.4	32.7	10.5	7.0	5.8	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	50.2	22.2	4.7	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.7	10.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	0.0	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)