

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: P677099

Luminaire Tested: **CCW-SA-1F-722-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677099
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-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

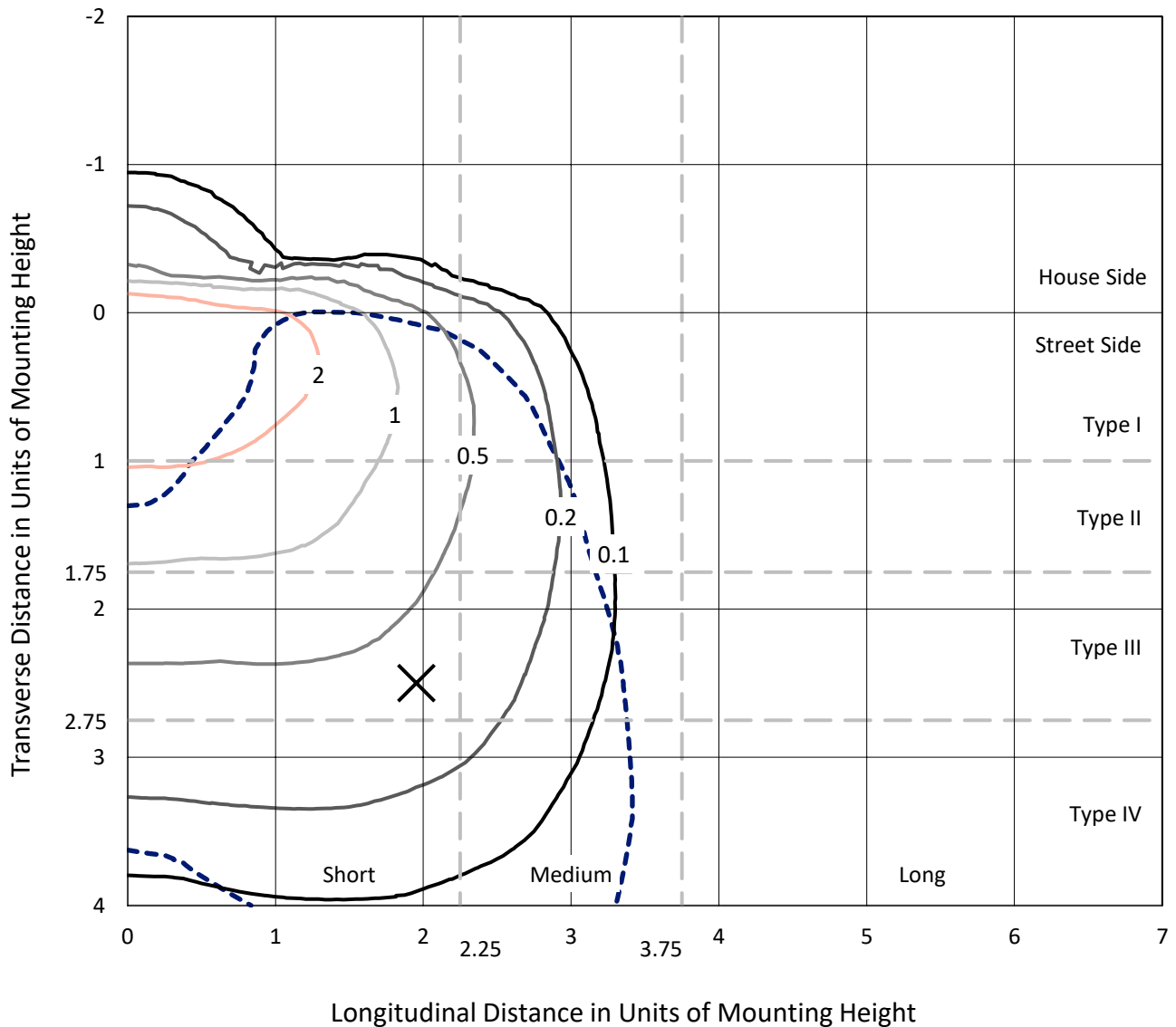
Lumens per Lamp: N/A
Luminaire Lumens: 4562 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

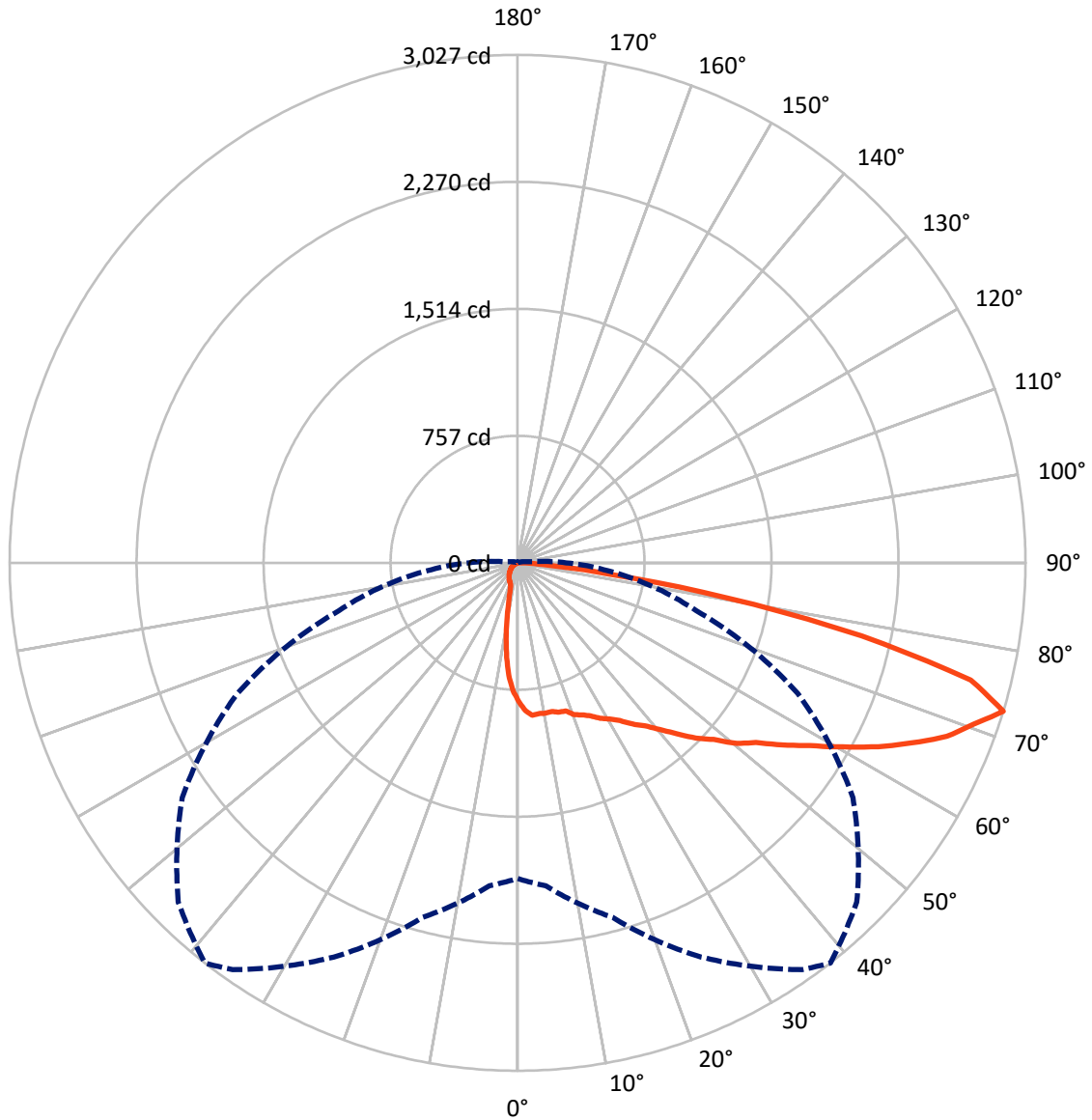
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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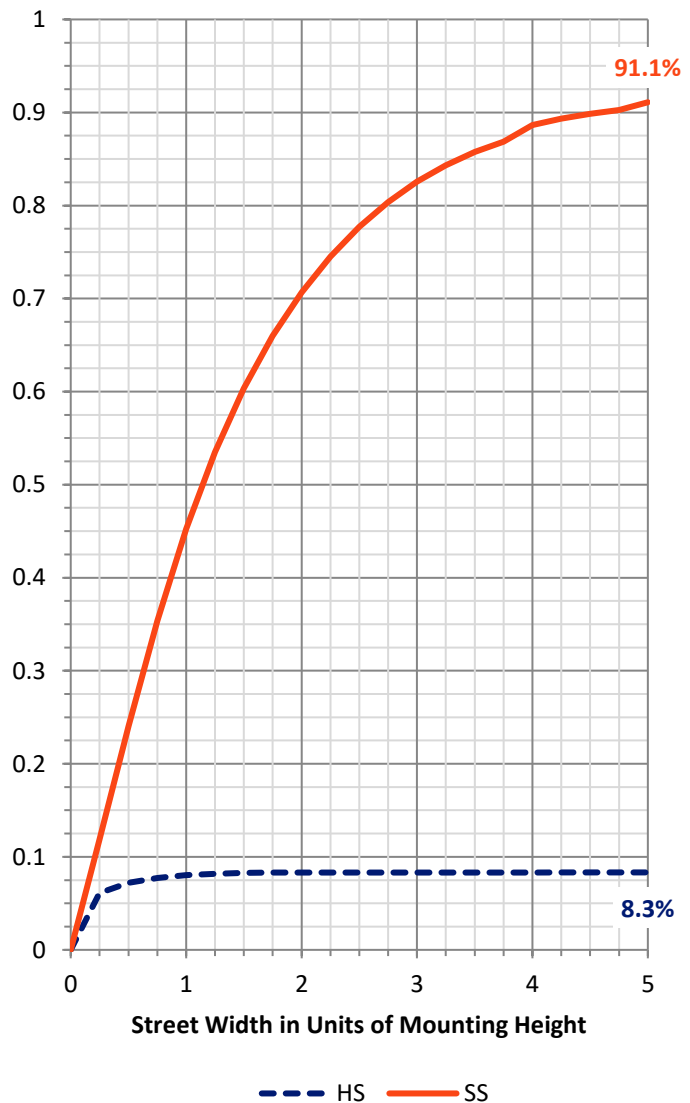
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.1	0.0	382.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4179.9	0.0	4179.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	4562.0	0.0	4562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.6
10°-20°	176.8	3.9
20°-30°	283.4	6.2
30°-40°	427.9	9.4
40°-50°	651.3	14.3
50°-60°	916.9	20.1
60°-70°	1120.0	24.6
70°-80°	813.3	17.8
80°-90°	100.2	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°	4562.0	100.0
0°-180°	4562.0	100.0

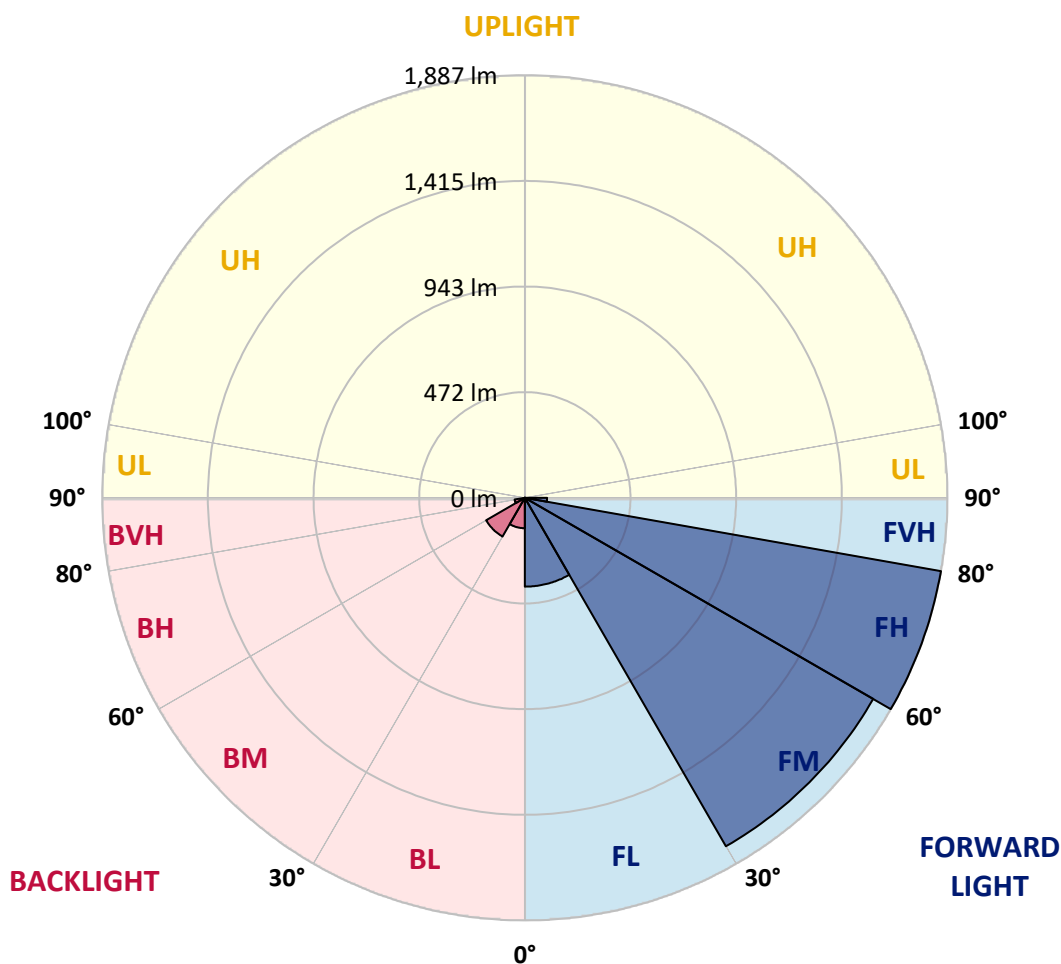


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.8	8.7			
FM (30°-60°)	1796.5	39.4			
FH (60°-80°)	1887.0	41.4			G2/5000
FVH (80°-90°)	99.6	2.2			G1/100
BL (0°-30°)	135.6	3.0	B1/500		
BM (30°-60°)	199.6	4.4	B0/220		
BH (60°-80°)	46.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	906.3	906.3	914.9	906.3	903.1	882.8	883.8	873.1	862.4	847.5	833.5
5°	917.0	924.5	929.8	922.4	910.6	912.7	920.2	899.9	871.0	852.8	821.8
7.5°	912.7	928.8	924.5	920.2	912.7	907.4	896.7	888.1	874.2	857.1	820.7
10°	909.5	914.9	915.9	912.7	896.7	911.7	899.9	886.0	868.9	848.5	803.6
12.5°	897.7	897.7	907.4	899.9	902.0	909.5	904.2	901.0	882.8	865.6	826.1
15°	884.9	889.2	904.2	915.9	926.6	923.4	920.2	910.6	894.5	875.3	833.5
17.5°	888.1	890.3	913.8	935.2	929.8	927.7	944.8	924.5	908.4	887.0	840.0
20°	899.9	906.3	933.1	960.9	966.2	966.2	959.8	948.0	925.6	896.7	851.7
22.5°	911.7	913.8	957.7	993.0	998.3	984.4	989.8	955.5	934.1	918.1	863.5
25°	956.6	952.3	999.4	1027.2	1024.0	1010.1	1004.7	974.8	966.2	937.3	889.2
27.5°	1017.6	999.4	1045.4	1062.5	1045.4	1049.7	1034.7	1002.6	984.4	967.3	901.0
30°	1055.0	1065.7	1090.3	1107.5	1078.6	1079.6	1072.2	1036.8	1009.0	1013.3	940.5
32.5°	1112.8	1120.3	1138.5	1146.0	1123.5	1121.4	1113.9	1086.1	1065.7	1061.5	994.0
35°	1174.9	1188.8	1189.9	1192.0	1171.7	1180.2	1169.5	1129.9	1140.6	1148.1	1058.2
37.5°	1235.9	1223.0	1244.4	1254.1	1231.6	1231.6	1234.8	1208.0	1227.3	1249.8	1149.2
40°	1259.4	1264.8	1302.2	1294.7	1321.5	1305.4	1317.2	1310.8	1326.8	1378.2	1277.6
42.5°	1284.0	1290.4	1340.7	1354.6	1386.7	1392.1	1409.2	1410.3	1457.4	1541.9	1400.7
45°	1331.1	1320.4	1388.9	1423.1	1475.6	1490.5	1510.9	1528.0	1601.8	1701.3	1540.8
47.5°	1373.9	1358.9	1437.0	1505.5	1569.7	1572.9	1628.6	1646.8	1734.5	1847.9	1679.9
50°	1433.8	1439.2	1472.3	1590.0	1655.3	1692.8	1731.3	1791.2	1888.6	2009.5	1780.5
52.5°	1495.9	1490.5	1546.2	1661.7	1764.5	1778.4	1865.0	1932.4	2038.4	2129.3	1825.4
55°	1571.9	1578.3	1599.7	1751.6	1882.2	1915.3	2012.7	2083.3	2198.9	2180.7	1840.4
57.5°	1647.8	1641.4	1689.6	1852.2	2029.8	2054.4	2183.9	2225.6	2303.7	2214.9	1803.0
60°	1722.7	1734.5	1754.8	1965.6	2191.4	2227.8	2330.5	2351.9	2369.0	2231.0	1774.1
62.5°	1808.3	1780.5	1843.6	2085.5	2336.9	2412.9	2494.2	2409.7	2394.7	2202.1	1707.7
65°	1851.1	1859.7	1942.1	2222.4	2530.6	2586.2	2596.9	2487.8	2410.7	2137.9	1645.7
67.5°	1917.5	1929.2	2034.1	2362.6	2729.6	2760.6	2722.1	2558.4	2396.8	2054.4	1422.1
70°	1926.0	1954.9	2157.2	2509.2	2854.8	2881.6	2851.6	2605.5	2284.5	1725.9	1052.9
72.5°	1881.1	1932.4	2187.1	2592.6	2959.7	3027.1	2859.1	2439.6	1841.5	1101.0	539.3
75°	1421.0	1463.8	2002.0	2468.5	2773.5	2789.5	2510.3	1861.8	1048.6	375.6	138.0
77.5°	736.2	810.0	1336.4	1886.4	2113.3	2096.2	1747.3	1096.8	360.6	98.4	55.6
80°	422.7	440.8	584.2	1059.3	1329.0	1263.7	966.2	472.9	158.4	49.2	36.4
82.5°	208.7	234.3	314.6	474.0	664.5	546.8	362.7	283.6	88.8	26.8	32.1
85°	44.9	47.1	160.5	226.8	269.6	177.6	124.1	238.6	32.1	16.1	31.0
87.5°	32.1	31.0	44.9	101.7	74.9	46.0	73.8	125.2	7.5	7.5	6.4
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°	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0	825.0
2.5°	825.0	815.4	804.7	784.3	779.0	775.8	757.6	756.5	753.3	745.8	742.6
5°	802.5	786.5	766.1	744.7	727.6	696.6	659.1	639.9	616.3	617.4	609.9
7.5°	799.3	769.3	740.5	695.5	640.9	583.2	525.4	487.9	461.2	445.1	448.3
10°	784.3	761.9	714.8	631.3	543.6	455.8	382.0	326.4	294.3	269.6	277.1
12.5°	790.7	746.9	680.5	569.2	444.1	336.0	244.0	190.5	166.9	158.4	160.5
15°	786.5	746.9	660.2	501.8	348.8	227.9	158.4	141.2	137.0	137.0	134.8
17.5°	799.3	755.4	626.0	435.5	250.4	151.9	135.9	132.7	129.5	129.5	129.5
20°	817.5	759.7	602.4	361.7	176.6	133.8	127.3	125.2	124.1	124.1	123.1
22.5°	818.6	755.4	558.5	280.3	135.9	126.3	120.9	119.8	119.8	117.7	117.7
25°	825.0	759.7	511.5	210.8	126.3	118.8	114.5	113.4	114.5	113.4	112.4
27.5°	841.0	767.2	464.4	154.1	118.8	112.4	109.1	108.1	108.1	108.1	105.9
30°	861.4	767.2	412.0	127.3	112.4	105.9	102.7	101.7	100.6	100.6	100.6
32.5°	904.2	791.8	347.8	113.4	103.8	98.4	95.2	95.2	94.2	94.2	93.1
35°	957.7	808.9	282.5	104.9	96.3	91.0	87.7	87.7	86.7	86.7	85.6
37.5°	1024.0	851.7	216.1	98.4	88.8	83.5	80.3	80.3	80.3	79.2	79.2
40°	1118.2	895.6	160.5	89.9	81.3	76.0	73.8	72.8	71.7	71.7	69.6
42.5°	1218.7	963.0	119.8	83.5	74.9	70.6	67.4	64.2	64.2	61.0	61.0
45°	1327.9	1021.9	97.4	76.0	68.5	63.1	59.9	57.8	54.6	52.4	52.4
47.5°	1434.9	1058.2	85.6	67.4	62.1	57.8	54.6	50.3	46.0	44.9	43.9
50°	1521.6	1068.9	76.0	61.0	56.7	52.4	48.2	42.8	38.5	36.4	35.3
52.5°	1521.6	1010.1	68.5	54.6	51.4	47.1	41.7	35.3	30.0	27.8	26.8
55°	1521.6	917.0	61.0	50.3	46.0	42.8	35.3	28.9	23.5	20.3	19.3
57.5°	1499.1	804.7	54.6	44.9	40.7	36.4	30.0	22.5	17.1	13.9	13.9
60°	1437.0	687.0	47.1	39.6	35.3	30.0	23.5	16.1	10.7	7.5	7.5
62.5°	1357.9	546.8	40.7	33.2	28.9	24.6	18.2	10.7	4.3	2.1	2.1
65°	1219.8	403.4	35.3	27.8	22.5	18.2	11.8	4.3	0.0	0.0	0.0
67.5°	1006.9	269.6	27.8	22.5	19.3	12.8	7.5	1.1	0.0	0.0	0.0
70°	708.4	153.0	21.4	16.1	13.9	8.6	2.1	0.0	0.0	0.0	0.0
72.5°	291.0	67.4	15.0	11.8	9.6	4.3	0.0	0.0	0.0	0.0	0.0
75°	79.2	30.0	9.6	6.4	5.4	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	46.0	20.3	4.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.4	9.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.4	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)