

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: P677200

Luminaire Tested: **CCW-SA-2B-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677200
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

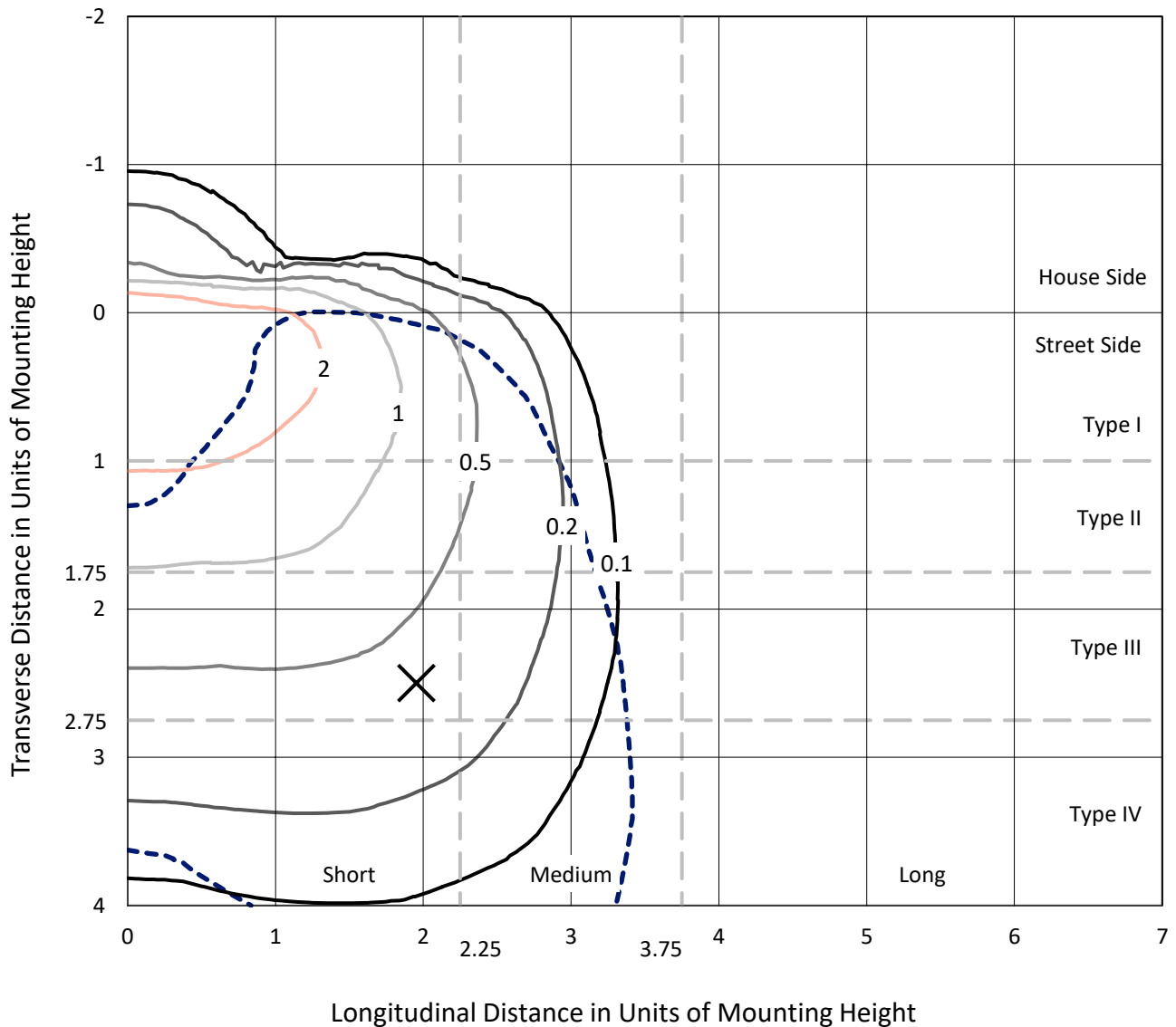
Lumens per Lamp: N/A
Luminaire Lumens: 4700.7 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

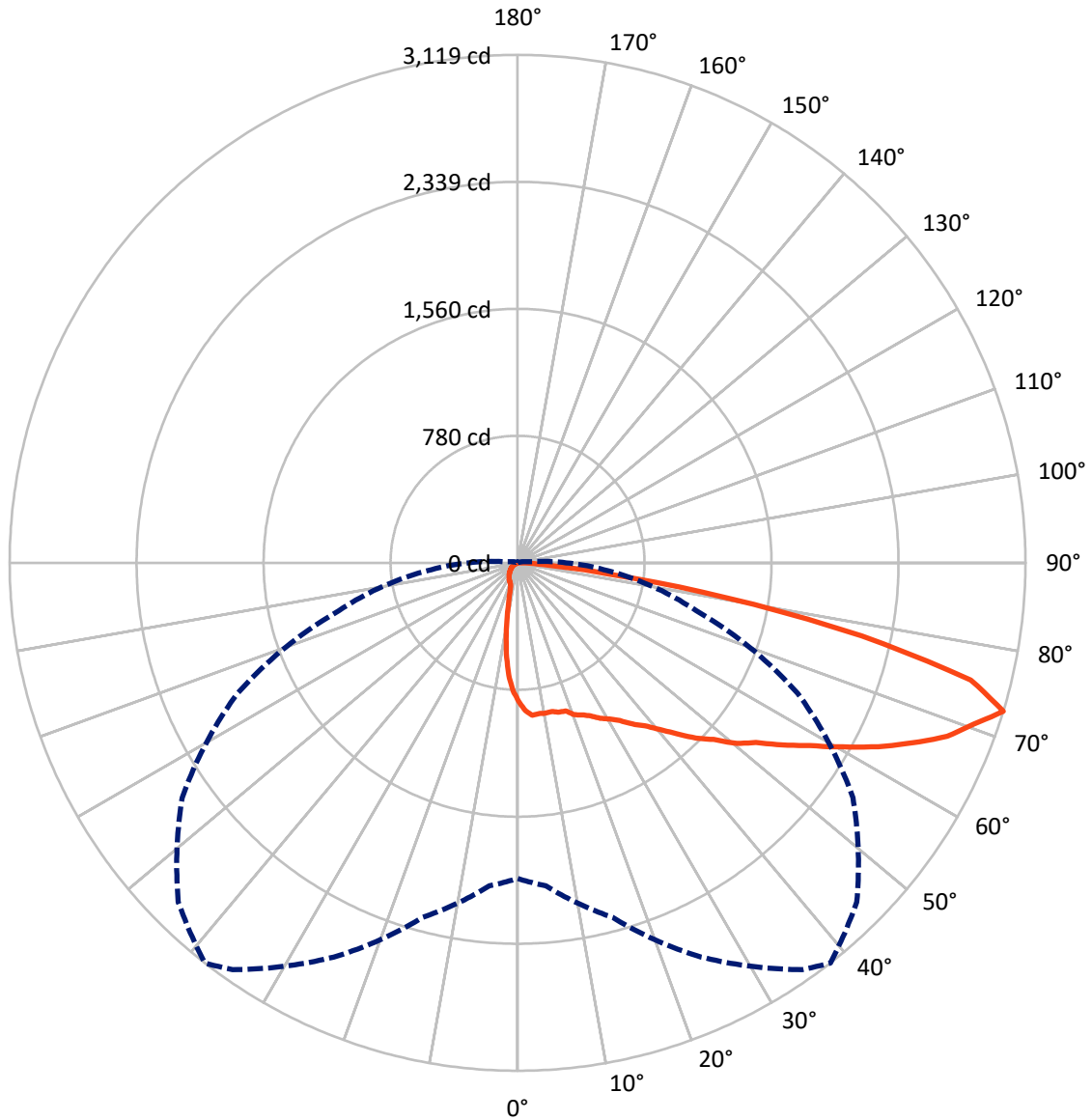
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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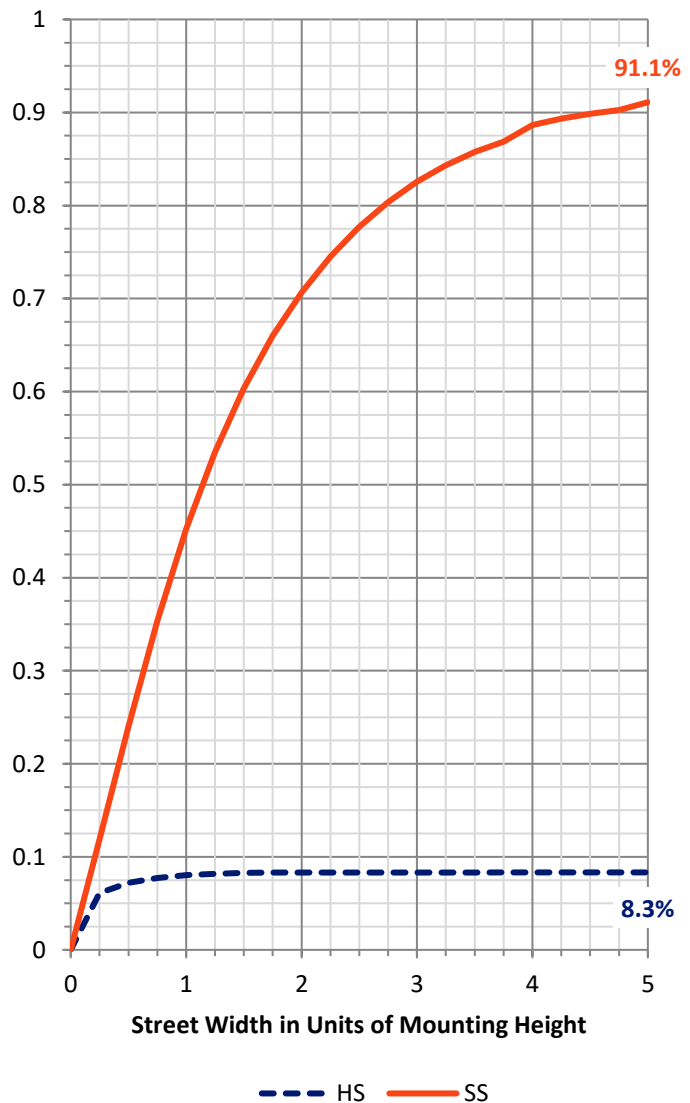
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.7	0.0	393.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4307.0	0.0	4307.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4700.7	0.0	4700.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.6
10°-20°	182.2	3.9
20°-30°	292.1	6.2
30°-40°	440.9	9.4
40°-50°	671.1	14.3
50°-60°	944.8	20.1
60°-70°	1154.1	24.6
70°-80°	838.0	17.8
80°-90°	103.2	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°	4700.7	100.0
0°-180°	4700.7	100.0

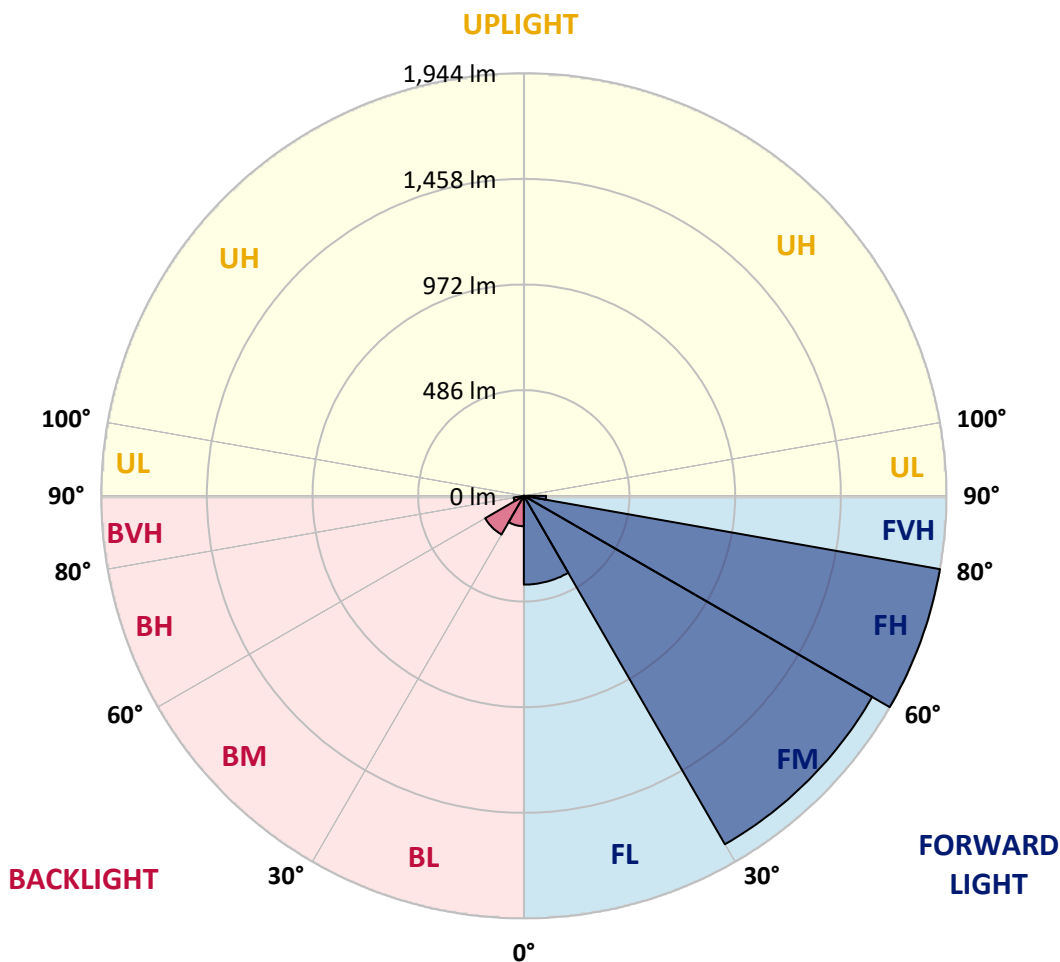


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.9	8.7			
FM (30°-60°)	1851.1	39.4			
FH (60°-80°)	1944.3	41.4			G2/5000
FVH (80°-90°)	102.7	2.2			G2/225
BL (0°-30°)	139.8	3.0	B1/500		
BM (30°-60°)	205.6	4.4	B0/220		
BH (60°-80°)	47.7	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°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1
2.5°	933.9	933.9	942.7	933.9	930.6	909.6	910.7	899.7	888.7	873.2	858.9
5°	944.9	952.6	958.1	950.4	938.3	940.5	948.2	927.2	897.5	878.7	846.8
7.5°	940.5	957.0	952.6	948.2	940.5	935.0	923.9	915.1	900.8	883.1	845.7
10°	937.2	942.7	943.8	940.5	923.9	939.4	927.2	912.9	895.3	874.3	828.0
12.5°	925.0	925.0	935.0	927.2	929.4	937.2	931.7	928.3	909.6	892.0	851.2
15°	911.8	916.2	931.7	943.8	954.8	951.5	948.2	938.3	921.7	901.9	858.9
17.5°	915.1	917.3	941.6	963.6	958.1	955.9	973.6	952.6	936.1	914.0	865.5
20°	927.2	933.9	961.4	990.1	995.6	995.6	989.0	976.9	953.7	923.9	877.6
22.5°	939.4	941.6	986.8	1023.2	1028.7	1014.3	1019.9	984.6	962.5	946.0	889.8
25°	985.7	981.3	1029.8	1058.4	1055.1	1040.8	1035.3	1004.4	995.6	965.8	916.2
27.5°	1048.5	1029.8	1077.2	1094.8	1077.2	1081.6	1066.2	1033.1	1014.3	996.7	928.3
30°	1087.1	1098.1	1123.5	1141.1	1111.4	1112.5	1104.8	1068.4	1039.7	1044.1	969.1
32.5°	1146.7	1154.4	1173.1	1180.8	1157.7	1155.5	1147.8	1119.1	1098.1	1093.7	1024.3
35°	1210.6	1224.9	1226.0	1228.2	1207.3	1216.1	1205.1	1164.3	1175.3	1183.0	1090.4
37.5°	1273.4	1260.2	1282.3	1292.2	1269.0	1269.0	1272.3	1244.8	1264.6	1287.8	1184.1
40°	1297.7	1303.2	1341.8	1334.1	1361.6	1345.1	1357.2	1350.6	1367.2	1420.1	1316.4
42.5°	1323.1	1329.7	1381.5	1395.8	1428.9	1434.4	1452.1	1453.2	1501.7	1588.8	1443.2
45°	1371.6	1360.5	1431.1	1466.4	1520.4	1535.9	1556.8	1574.4	1650.5	1753.1	1587.7
47.5°	1415.7	1400.2	1480.7	1551.3	1617.4	1620.7	1678.1	1696.8	1787.2	1904.1	1731.0
50°	1477.4	1482.9	1517.1	1638.4	1705.6	1744.2	1783.9	1845.7	1946.0	2070.6	1834.6
52.5°	1541.4	1535.9	1593.2	1712.3	1818.1	1832.4	1921.7	1991.2	2100.4	2194.1	1881.0
55°	1619.6	1626.3	1648.3	1804.9	1939.4	1973.6	2073.9	2146.7	2265.7	2247.0	1896.4
57.5°	1697.9	1691.3	1740.9	1908.5	2091.5	2116.9	2250.3	2293.3	2373.8	2282.3	1857.8
60°	1775.1	1787.2	1808.2	2025.4	2258.0	2295.5	2401.4	2423.4	2441.0	2298.8	1828.0
62.5°	1863.3	1834.6	1899.7	2148.9	2408.0	2486.3	2570.0	2482.9	2467.5	2269.0	1759.7
65°	1907.4	1916.2	2001.1	2290.0	2607.5	2664.9	2675.9	2563.4	2484.0	2202.9	1695.7
67.5°	1975.8	1987.9	2095.9	2434.4	2812.6	2844.6	2804.9	2636.2	2469.7	2116.9	1465.3
70°	1984.6	2014.4	2222.7	2585.5	2941.6	2969.2	2938.3	2684.7	2353.9	1778.4	1084.9
72.5°	1938.3	1991.2	2253.6	2671.5	3049.7	3119.1	2946.0	2513.8	1897.5	1134.5	555.7
75°	1464.2	1508.3	2062.9	2543.6	2857.8	2874.3	2586.6	1918.4	1080.5	387.0	142.2
77.5°	758.6	834.6	1377.1	1943.8	2177.5	2159.9	1800.5	1130.1	371.6	101.4	57.3
80°	435.5	454.3	602.0	1091.5	1369.4	1302.1	995.6	487.3	163.2	50.7	37.5
82.5°	215.0	241.5	324.1	488.4	684.7	563.4	373.8	292.2	91.5	27.6	33.1
85°	46.3	48.5	165.4	233.7	277.8	183.0	127.9	245.9	33.1	16.5	32.0
87.5°	33.1	32.0	46.3	104.7	77.2	47.4	76.1	129.0	7.7	7.7	6.6
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°	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1	850.1
2.5°	850.1	840.1	829.1	808.2	802.7	799.3	780.6	779.5	776.2	768.5	765.2
5°	826.9	810.4	789.4	767.4	749.7	717.8	679.2	659.3	635.1	636.2	628.5
7.5°	823.6	792.7	763.0	716.7	660.4	600.9	541.4	502.8	475.2	458.7	462.0
10°	808.2	785.0	736.5	650.5	560.1	469.7	393.6	336.3	303.2	277.8	285.6
12.5°	814.8	769.6	701.2	586.6	457.6	346.2	251.4	196.3	172.0	163.2	165.4
15°	810.4	769.6	680.3	517.1	359.4	234.8	163.2	145.5	141.1	141.1	138.9
17.5°	823.6	778.4	645.0	448.7	258.0	156.6	140.0	136.7	133.4	133.4	133.4
20°	842.3	782.8	620.7	372.7	181.9	137.8	131.2	129.0	127.9	127.9	126.8
22.5°	843.5	778.4	575.5	288.9	140.0	130.1	124.6	123.5	123.5	121.3	121.3
25°	850.1	782.8	527.0	217.2	130.1	122.4	118.0	116.9	118.0	116.9	115.8
27.5°	866.6	790.5	478.5	158.8	122.4	115.8	112.5	111.4	111.4	111.4	109.2
30°	887.6	790.5	424.5	131.2	115.8	109.2	105.8	104.7	103.6	103.6	103.6
32.5°	931.7	815.9	358.3	116.9	106.9	101.4	98.1	98.1	97.0	97.0	95.9
35°	986.8	833.5	291.1	108.0	99.2	93.7	90.4	90.4	89.3	89.3	88.2
37.5°	1055.1	877.6	222.7	101.4	91.5	86.0	82.7	82.7	82.7	81.6	81.6
40°	1152.2	922.8	165.4	92.6	83.8	78.3	76.1	75.0	73.9	73.9	71.7
42.5°	1255.8	992.3	123.5	86.0	77.2	72.8	69.5	66.2	66.2	62.8	62.8
45°	1368.3	1052.9	100.3	78.3	70.6	65.1	61.7	59.5	56.2	54.0	54.0
47.5°	1478.5	1090.4	88.2	69.5	63.9	59.5	56.2	51.8	47.4	46.3	45.2
50°	1567.8	1101.4	78.3	62.8	58.4	54.0	49.6	44.1	39.7	37.5	36.4
52.5°	1567.8	1040.8	70.6	56.2	52.9	48.5	43.0	36.4	30.9	28.7	27.6
55°	1567.8	944.9	62.8	51.8	47.4	44.1	36.4	29.8	24.3	20.9	19.8
57.5°	1544.7	829.1	56.2	46.3	41.9	37.5	30.9	23.2	17.6	14.3	14.3
60°	1480.7	707.8	48.5	40.8	36.4	30.9	24.3	16.5	11.0	7.7	7.7
62.5°	1399.1	563.4	41.9	34.2	29.8	25.4	18.7	11.0	4.4	2.2	2.2
65°	1256.9	415.7	36.4	28.7	23.2	18.7	12.1	4.4	0.0	0.0	0.0
67.5°	1037.5	277.8	28.7	23.2	19.8	13.2	7.7	1.1	0.0	0.0	0.0
70°	729.9	157.7	22.1	16.5	14.3	8.8	2.2	0.0	0.0	0.0	0.0
72.5°	299.9	69.5	15.4	12.1	9.9	4.4	0.0	0.0	0.0	0.0	0.0
75°	81.6	30.9	9.9	6.6	5.5	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	47.4	20.9	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.5	9.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.5	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	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)