

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: P677219

Luminaire Tested: **CCW-SA-1E-850-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677219
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-850-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

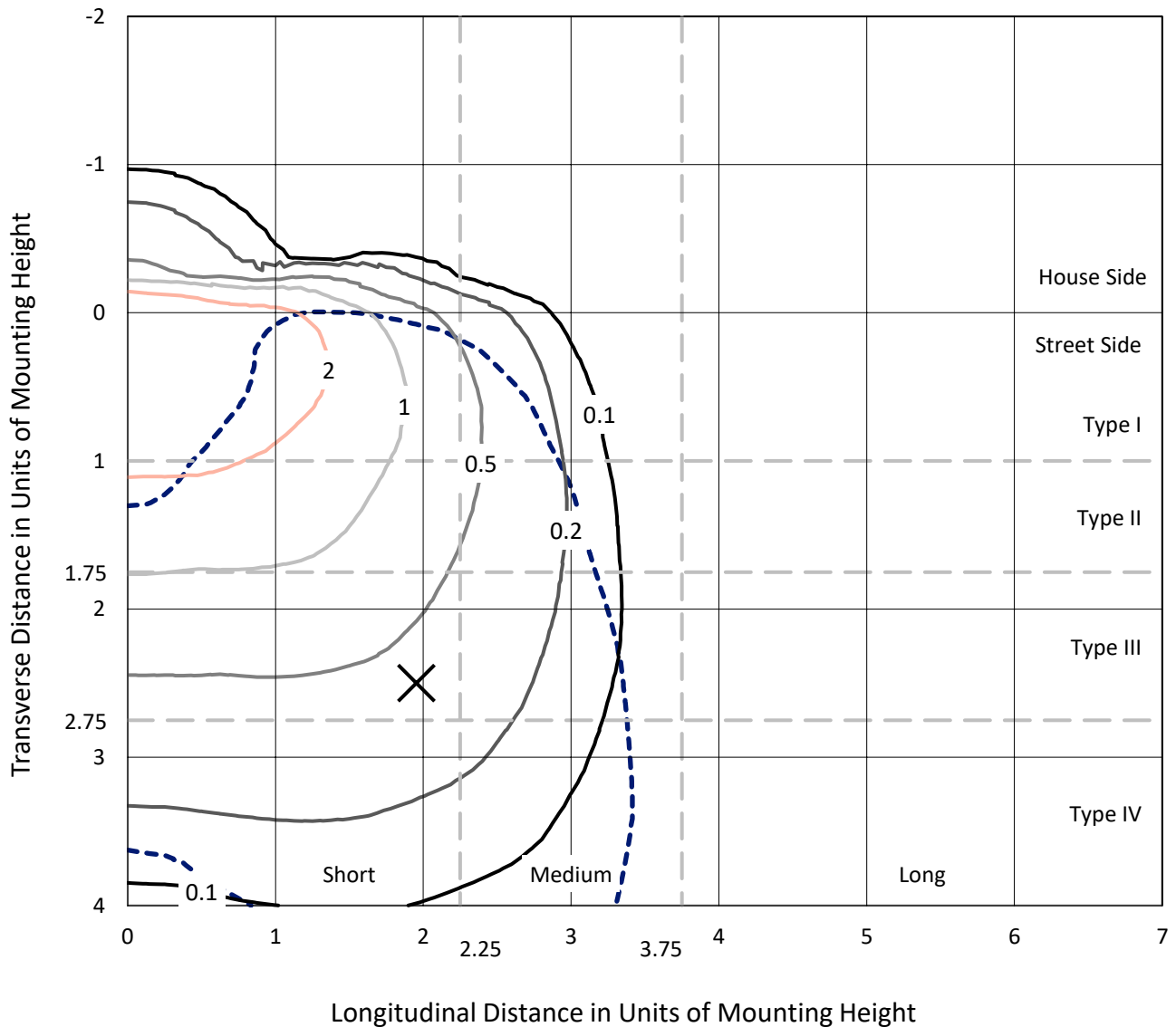
Lumens per Lamp: N/A
Luminaire Lumens: 4928.1 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

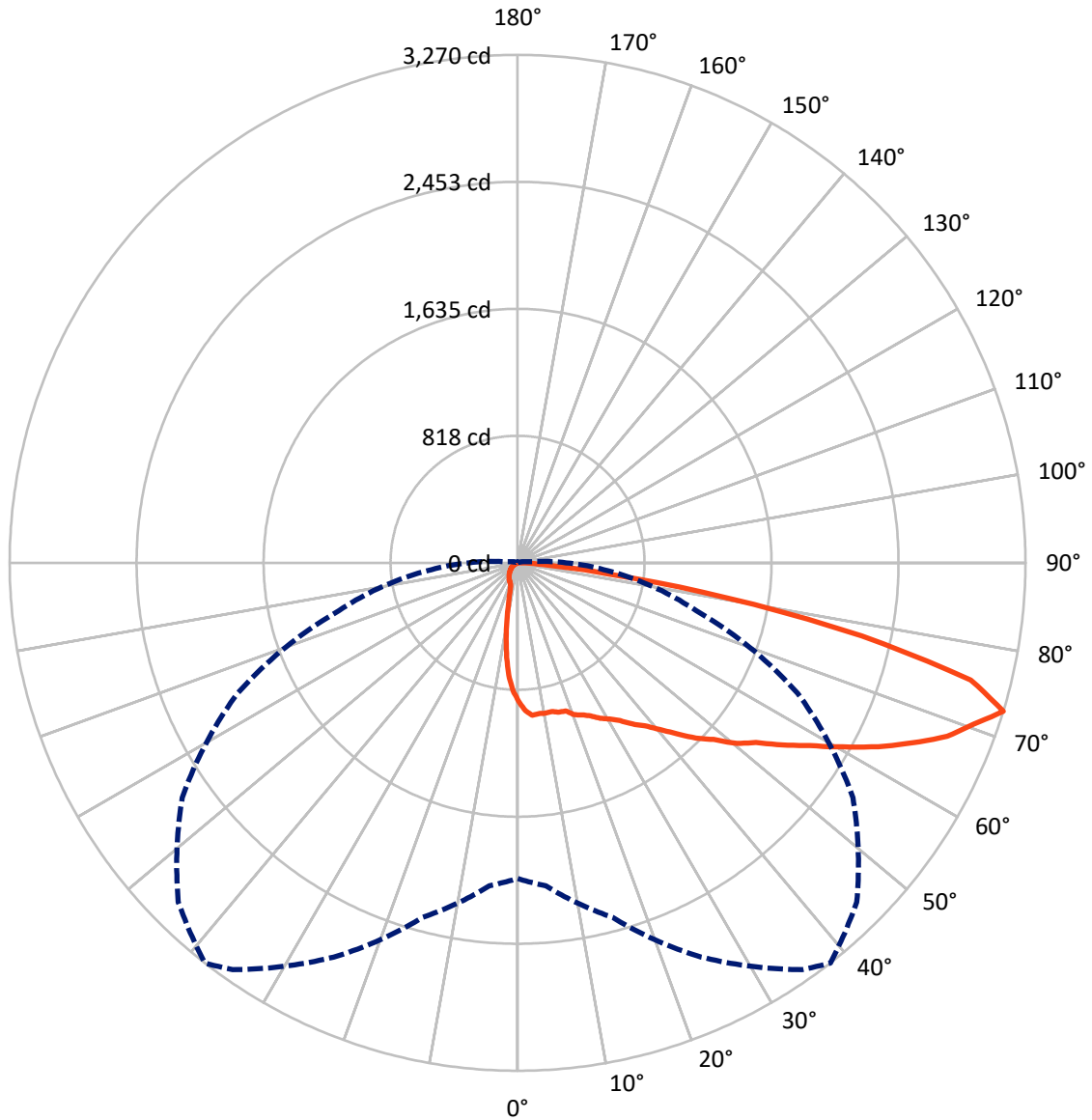
× Max cd
 - - - 1/2 Max cd



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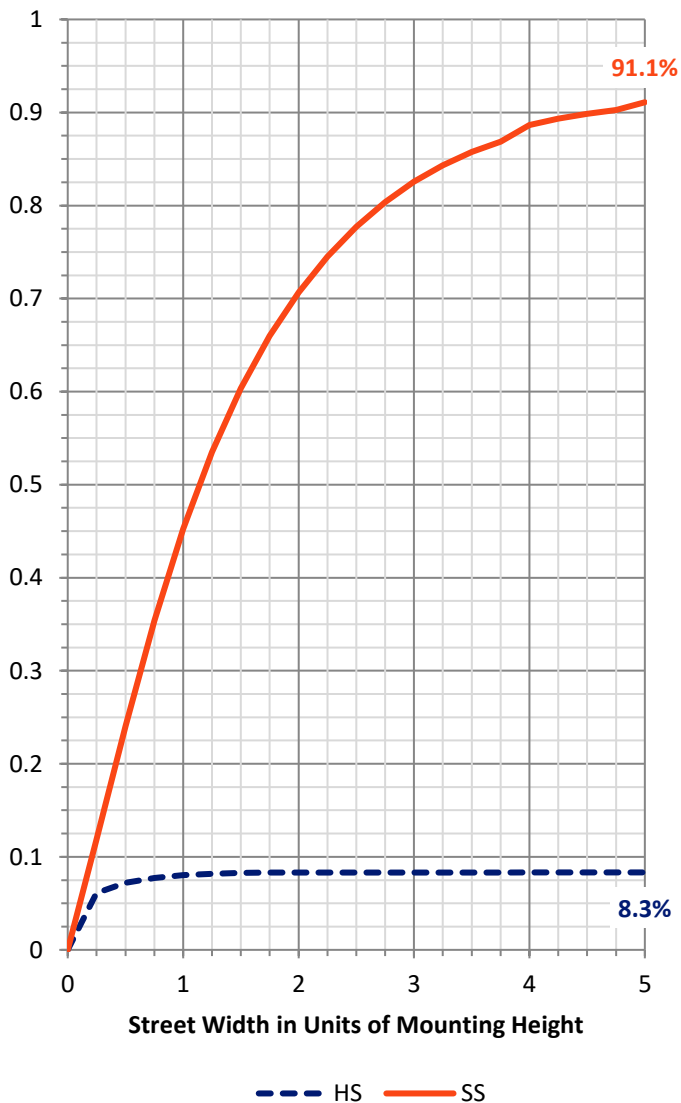
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.7	0.0	412.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4515.3	0.0	4515.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	4928.1	0.0	4928.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.6
10°-20°	191.0	3.9
20°-30°	306.2	6.2
30°-40°	462.3	9.4
40°-50°	703.5	14.3
50°-60°	990.5	20.1
60°-70°	1209.9	24.6
70°-80°	878.5	17.8
80°-90°	108.2	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°	4928.1	100.0
0°-180°	4928.1	100.0

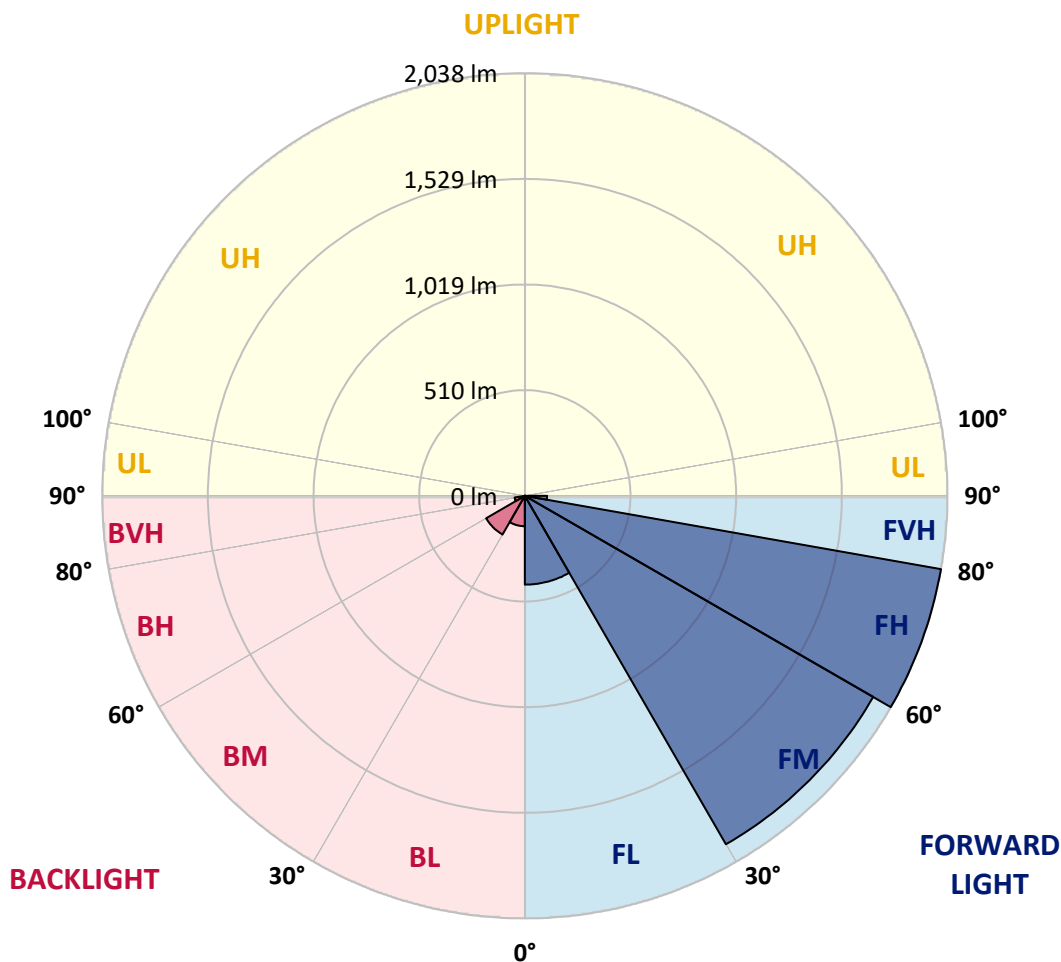


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.6	8.7			
FM (30°-60°)	1940.7	39.4			
FH (60°-80°)	2038.4	41.4			G2/5000
FVH (80°-90°)	107.6	2.2			G2/225
BL (0°-30°)	146.5	3.0	B1/500		
BM (30°-60°)	215.6	4.4	B0/220		
BH (60°-80°)	50.0	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°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
2.5°	979.0	979.0	988.3	979.0	975.6	953.6	954.8	943.2	931.6	915.5	900.4
5°	990.6	998.7	1004.5	996.4	983.7	986.0	994.1	972.1	940.9	921.2	887.7
7.5°	986.0	1003.3	998.7	994.1	986.0	980.2	968.6	959.4	944.4	925.9	886.6
10°	982.5	988.3	989.4	986.0	968.6	984.8	972.1	957.1	938.6	916.6	868.1
12.5°	969.8	969.8	980.2	972.1	974.4	982.5	976.7	973.3	953.6	935.1	892.3
15°	955.9	960.5	976.7	989.4	1001.0	997.5	994.1	983.7	966.3	945.5	900.4
17.5°	959.4	961.7	987.1	1010.2	1004.5	1002.2	1020.6	998.7	981.3	958.2	907.4
20°	972.1	979.0	1007.9	1038.0	1043.8	1043.8	1036.8	1024.1	999.8	968.6	920.1
22.5°	984.8	987.1	1034.5	1072.7	1078.4	1063.4	1069.2	1032.2	1009.1	991.7	932.8
25°	1033.4	1028.7	1079.6	1109.6	1106.2	1091.2	1085.4	1053.0	1043.8	1012.6	960.5
27.5°	1099.2	1079.6	1129.3	1147.8	1129.3	1133.9	1117.7	1083.1	1063.4	1044.9	973.3
30°	1139.7	1151.3	1177.8	1196.3	1165.1	1166.3	1158.2	1120.1	1090.0	1094.6	1016.0
32.5°	1202.1	1210.2	1229.9	1238.0	1213.7	1211.4	1203.3	1173.2	1151.3	1146.6	1073.8
35°	1269.2	1284.2	1285.3	1287.7	1265.7	1274.9	1263.4	1220.6	1232.2	1240.3	1143.2
37.5°	1335.0	1321.2	1344.3	1354.7	1330.4	1330.4	1333.9	1305.0	1325.8	1350.1	1241.4
40°	1360.5	1366.3	1406.7	1398.6	1427.5	1410.2	1422.9	1416.0	1433.3	1488.8	1380.1
42.5°	1387.1	1394.0	1448.3	1463.4	1498.0	1503.8	1522.3	1523.5	1574.3	1665.6	1513.1
45°	1437.9	1426.4	1500.3	1537.3	1594.0	1610.1	1632.1	1650.6	1730.4	1837.9	1664.5
47.5°	1484.2	1468.0	1552.4	1626.3	1695.7	1699.2	1759.3	1778.9	1873.7	1996.2	1814.7
50°	1548.9	1554.7	1590.5	1717.6	1788.2	1828.6	1870.2	1935.0	2040.1	2170.8	1923.4
52.5°	1615.9	1610.1	1670.3	1795.1	1906.1	1921.1	2014.7	2087.5	2202.0	2300.2	1971.9
55°	1698.0	1704.9	1728.0	1892.2	2033.2	2069.0	2174.2	2250.5	2375.3	2355.7	1988.1
57.5°	1780.1	1773.1	1825.1	2000.8	2192.7	2219.3	2359.2	2404.2	2488.6	2392.7	1947.7
60°	1861.0	1873.7	1895.7	2123.4	2367.3	2406.6	2517.5	2540.6	2559.1	2410.0	1916.5
62.5°	1953.4	1923.4	1991.6	2252.8	2524.5	2606.5	2694.4	2603.1	2586.9	2378.8	1844.8
65°	1999.7	2008.9	2097.9	2400.8	2733.7	2793.8	2805.3	2687.4	2604.2	2309.5	1777.8
67.5°	2071.3	2084.1	2197.3	2552.2	2948.7	2982.2	2940.6	2763.7	2589.2	2219.3	1536.2
70°	2080.6	2111.8	2330.3	2710.6	3083.9	3112.8	3080.4	2814.6	2467.8	1864.4	1137.4
72.5°	2032.0	2087.5	2362.6	2800.7	3197.2	3270.0	3088.5	2635.4	1989.3	1189.4	582.6
75°	1535.0	1581.3	2162.7	2666.6	2996.1	3013.4	2711.7	2011.2	1132.8	405.7	149.1
77.5°	795.2	875.0	1443.7	2037.8	2282.9	2264.4	1887.6	1184.8	389.5	106.3	60.1
80°	456.6	476.2	631.1	1144.3	1435.6	1365.1	1043.8	510.9	171.1	53.2	39.3
82.5°	225.4	253.1	339.8	512.1	717.8	590.7	391.8	306.3	95.9	28.9	34.7
85°	48.5	50.9	173.4	245.0	291.3	191.9	134.1	257.8	34.7	17.3	33.5
87.5°	34.7	33.5	48.5	109.8	80.9	49.7	79.8	135.2	8.1	8.1	6.9
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°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
2.5°	891.2	880.8	869.2	847.3	841.5	838.0	818.4	817.2	813.7	805.7	802.2
5°	866.9	849.6	827.6	804.5	786.0	752.5	712.0	691.2	665.8	666.9	658.9
7.5°	863.4	831.1	799.9	751.3	692.4	630.0	567.5	527.1	498.2	480.8	484.3
10°	847.3	823.0	772.1	682.0	587.2	492.4	412.7	352.5	317.9	291.3	299.4
12.5°	854.2	806.8	735.1	614.9	479.7	362.9	263.5	205.7	180.3	171.1	173.4
15°	849.6	806.8	713.2	542.1	376.8	246.2	171.1	152.6	148.0	148.0	145.6
17.5°	863.4	816.1	676.2	470.4	270.5	164.1	146.8	143.3	139.9	139.9	139.9
20°	883.1	820.7	650.8	390.7	190.7	144.5	137.6	135.2	134.1	134.1	132.9
22.5°	884.3	816.1	603.4	302.8	146.8	136.4	130.6	129.5	129.5	127.1	127.1
25°	891.2	820.7	552.5	227.7	136.4	128.3	123.7	122.5	123.7	122.5	121.4
27.5°	908.5	828.8	501.7	166.4	128.3	121.4	117.9	116.7	116.7	116.7	114.4
30°	930.5	828.8	445.0	137.6	121.4	114.4	111.0	109.8	108.7	108.7	108.7
32.5°	976.7	855.4	375.7	122.5	112.1	106.3	102.9	102.9	101.7	101.7	100.6
35°	1034.5	873.8	305.2	113.3	104.0	98.3	94.8	94.8	93.6	93.6	92.5
37.5°	1106.2	920.1	233.5	106.3	95.9	90.2	86.7	86.7	86.7	85.5	85.5
40°	1207.9	967.5	173.4	97.1	87.8	82.1	79.8	78.6	77.4	77.4	75.1
42.5°	1316.6	1040.3	129.5	90.2	80.9	76.3	72.8	69.4	69.4	65.9	65.9
45°	1434.5	1103.9	105.2	82.1	74.0	68.2	64.7	62.4	59.0	56.6	56.6
47.5°	1550.0	1143.2	92.5	72.8	67.0	62.4	59.0	54.3	49.7	48.5	47.4
50°	1643.7	1154.7	82.1	65.9	61.3	56.6	52.0	46.2	41.6	39.3	38.1
52.5°	1643.7	1091.2	74.0	59.0	55.5	50.9	45.1	38.1	32.4	30.1	28.9
55°	1643.7	990.6	65.9	54.3	49.7	46.2	38.1	31.2	25.4	22.0	20.8
57.5°	1619.4	869.2	59.0	48.5	43.9	39.3	32.4	24.3	18.5	15.0	15.0
60°	1552.4	742.1	50.9	42.8	38.1	32.4	25.4	17.3	11.6	8.1	8.1
62.5°	1466.8	590.7	43.9	35.8	31.2	26.6	19.7	11.6	4.6	2.3	2.3
65°	1317.7	435.8	38.1	30.1	24.3	19.7	12.7	4.6	0.0	0.0	0.0
67.5°	1087.7	291.3	30.1	24.3	20.8	13.9	8.1	1.2	0.0	0.0	0.0
70°	765.2	165.3	23.1	17.3	15.0	9.2	2.3	0.0	0.0	0.0	0.0
72.5°	314.4	72.8	16.2	12.7	10.4	4.6	0.0	0.0	0.0	0.0	0.0
75°	85.5	32.4	10.4	6.9	5.8	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	49.7	22.0	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	39.3	10.4	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.3	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	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)