

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: P677119

Luminaire Tested: **CCW-SA-1D-730-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677119
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-730-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

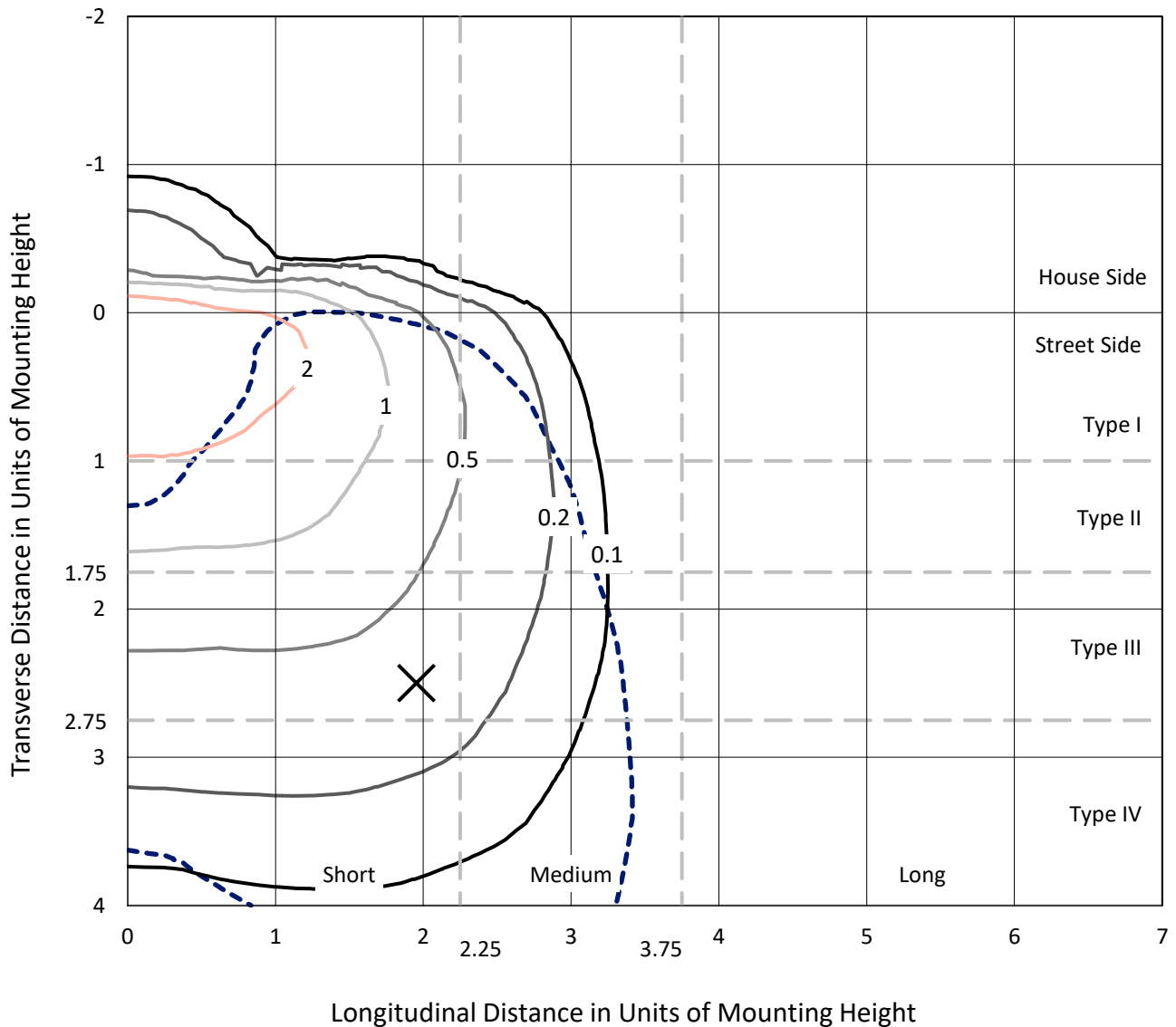
Lumens per Lamp: N/A
Luminaire Lumens: 4194.8 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

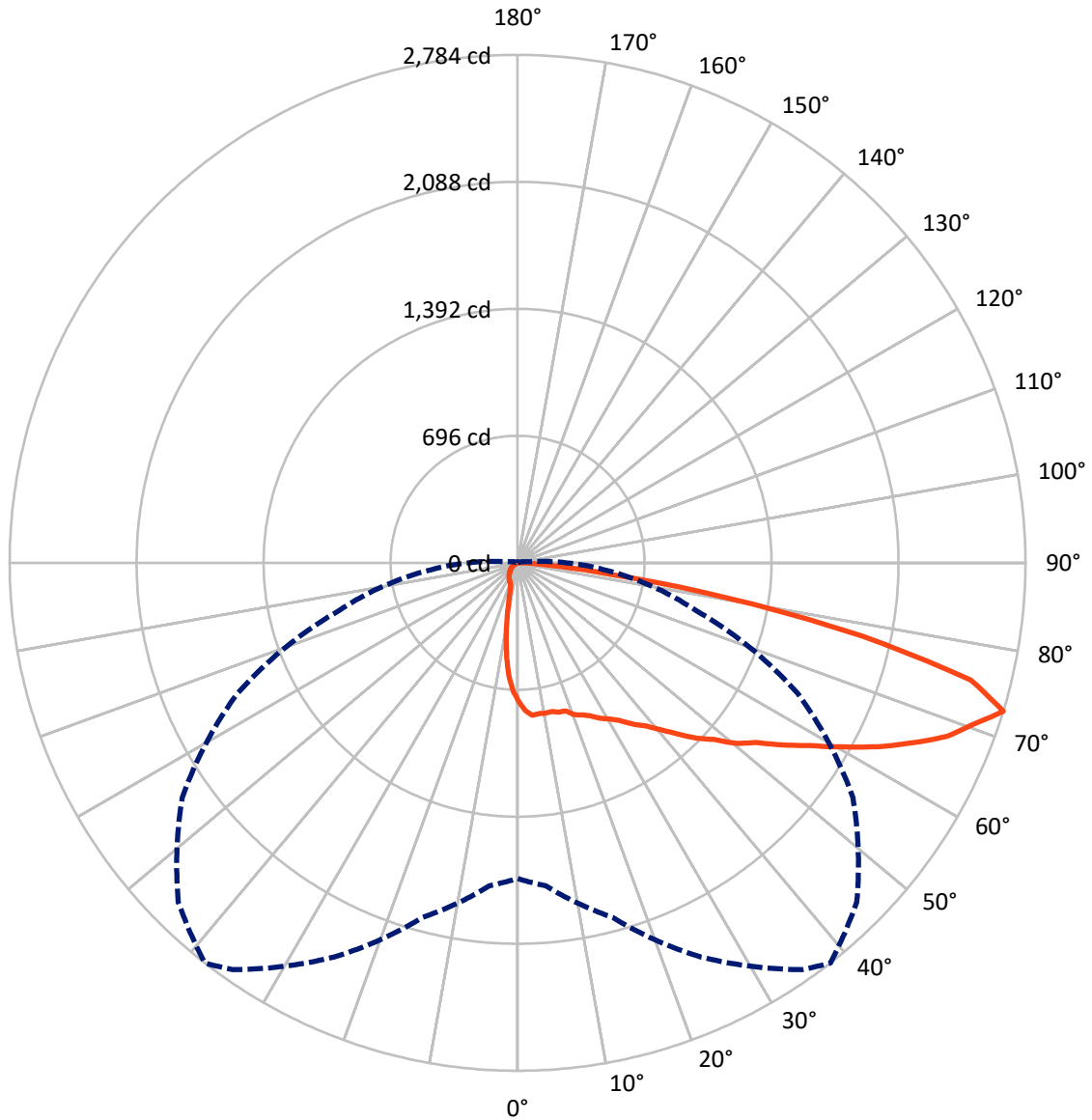
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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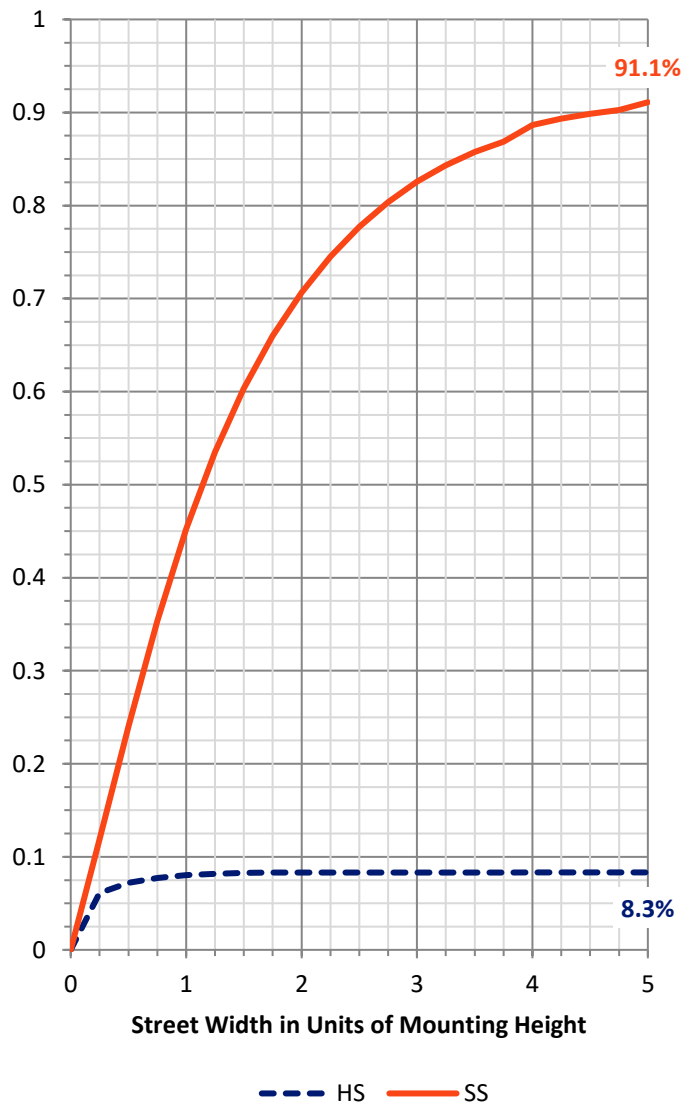
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.3	0.0	351.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3843.5	0.0	3843.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	4194.8	0.0	4194.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.6
10°-20°	162.6	3.9
20°-30°	260.6	6.2
30°-40°	393.5	9.4
40°-50°	598.9	14.3
50°-60°	843.1	20.1
60°-70°	1029.9	24.6
70°-80°	747.8	17.8
80°-90°	92.1	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°	4194.8	100.0
0°-180°	4194.8	100.0

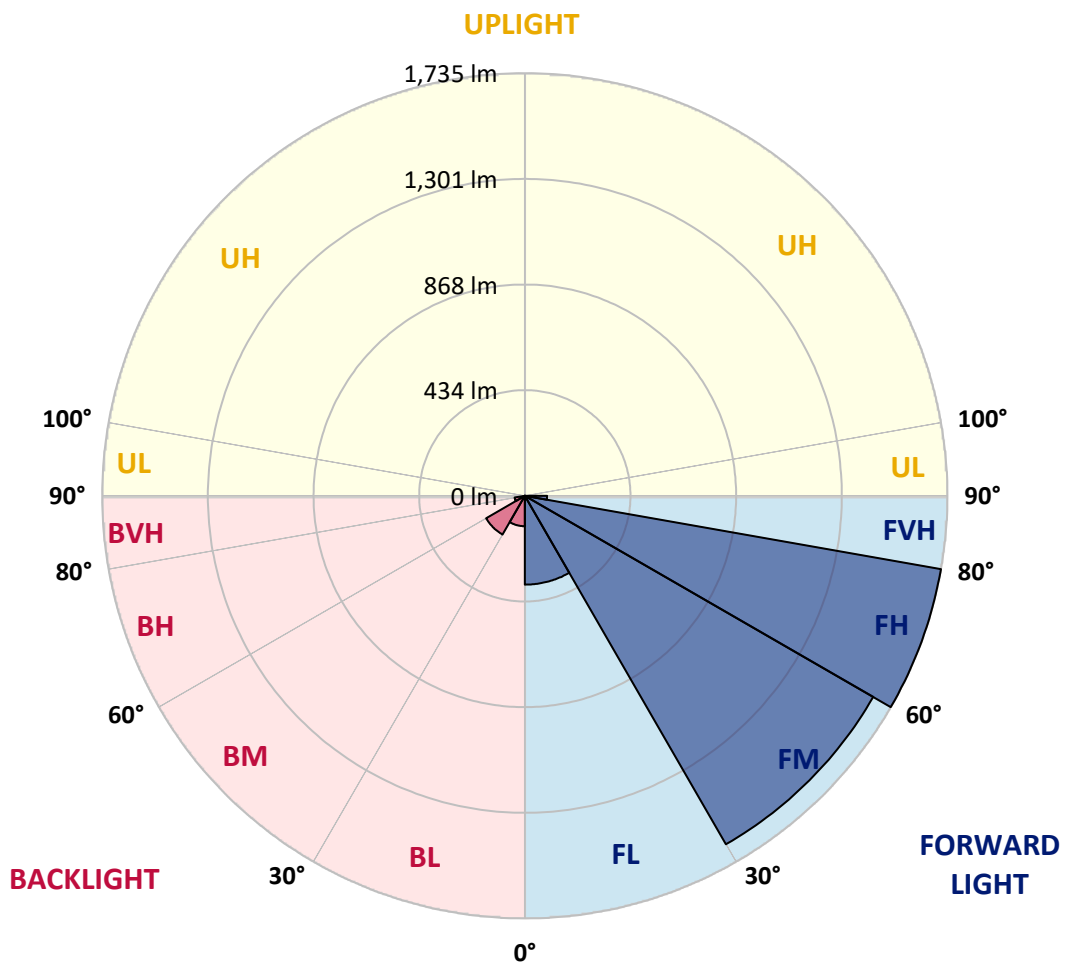


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.9	8.7			
FM (30°-60°)	1651.9	39.4			
FH (60°-80°)	1735.1	41.4			G1/1800
FVH (80°-90°)	91.6	2.2			G1/100
BL (0°-30°)	124.7	3.0	B1/500		
BM (30°-60°)	183.5	4.4	B0/220		
BH (60°-80°)	42.6	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6
2.5°	833.4	833.4	841.2	833.4	830.4	811.7	812.7	802.9	793.0	779.3	766.5
5°	843.2	850.1	855.0	848.1	837.3	839.3	846.2	827.5	800.9	784.2	755.6
7.5°	839.3	854.0	850.1	846.2	839.3	834.3	824.5	816.6	803.8	788.1	754.7
10°	836.3	841.2	842.2	839.3	824.5	838.3	827.5	814.7	798.9	780.2	738.9
12.5°	825.5	825.5	834.3	827.5	829.4	836.3	831.4	828.4	811.7	796.0	759.6
15°	813.7	817.6	831.4	842.2	852.1	849.1	846.2	837.3	822.5	804.8	766.5
17.5°	816.6	818.6	840.3	859.9	855.0	853.0	868.8	850.1	835.3	815.7	772.4
20°	827.5	833.4	858.0	883.5	888.5	888.5	882.6	871.7	851.1	824.5	783.2
22.5°	838.3	840.3	880.6	913.1	918.0	905.2	910.1	878.6	858.9	844.2	794.0
25°	879.6	875.7	919.0	944.5	941.6	928.8	923.9	896.3	888.5	861.9	817.6
27.5°	935.7	919.0	961.3	977.0	961.3	965.2	951.4	921.9	905.2	889.4	828.4
30°	970.1	980.0	1002.6	1018.3	991.8	992.8	985.9	953.4	927.8	931.8	864.8
32.5°	1023.3	1030.1	1046.9	1053.8	1033.1	1031.1	1024.2	998.7	980.0	976.0	914.0
35°	1080.3	1093.1	1094.1	1096.1	1077.4	1085.2	1075.4	1039.0	1048.8	1055.7	973.1
37.5°	1136.4	1124.6	1144.3	1153.1	1132.5	1132.5	1135.4	1110.8	1128.5	1149.2	1056.7
40°	1158.1	1163.0	1197.4	1190.5	1215.1	1200.4	1211.2	1205.3	1220.0	1267.3	1174.8
42.5°	1180.7	1186.6	1232.8	1245.6	1275.1	1280.1	1295.8	1296.8	1340.1	1417.8	1287.9
45°	1224.0	1214.1	1277.1	1308.6	1356.8	1370.6	1389.3	1405.0	1472.9	1564.4	1416.8
47.5°	1263.3	1249.6	1321.4	1384.3	1443.4	1446.3	1497.5	1514.2	1594.9	1699.2	1544.7
50°	1318.4	1323.3	1353.8	1462.1	1522.1	1556.5	1592.0	1647.1	1736.6	1847.8	1637.2
52.5°	1375.5	1370.6	1421.7	1528.0	1622.5	1635.2	1714.9	1776.9	1874.3	1958.0	1678.5
55°	1445.4	1451.3	1470.9	1610.6	1730.7	1761.2	1850.7	1915.7	2021.9	2005.2	1692.3
57.5°	1515.2	1509.3	1553.6	1703.1	1866.5	1889.1	2008.1	2046.5	2118.3	2036.7	1657.9
60°	1584.1	1594.9	1613.6	1807.4	2015.0	2048.5	2142.9	2162.6	2178.4	2051.4	1631.3
62.5°	1662.8	1637.2	1695.3	1917.6	2148.8	2218.7	2293.5	2215.7	2202.0	2024.9	1570.3
65°	1702.1	1710.0	1785.8	2043.6	2326.9	2378.1	2387.9	2287.6	2216.7	1965.8	1513.2
67.5°	1763.2	1774.0	1870.4	2172.5	2509.9	2538.5	2503.0	2352.5	2203.9	1889.1	1307.6
70°	1771.0	1797.6	1983.5	2307.2	2625.0	2649.6	2622.1	2395.8	2100.6	1587.0	968.2
72.5°	1729.7	1776.9	2011.1	2384.0	2721.5	2783.5	2629.0	2243.3	1693.3	1012.4	495.9
75°	1306.6	1346.0	1840.9	2269.9	2550.3	2565.0	2308.2	1712.0	964.2	345.3	126.9
77.5°	676.9	744.8	1228.9	1734.6	1943.2	1927.5	1606.7	1008.5	331.6	90.5	51.2
80°	388.6	405.4	537.2	974.1	1222.0	1162.0	888.5	434.9	145.6	45.3	33.5
82.5°	191.9	215.5	289.3	435.9	611.0	502.8	333.5	260.7	81.7	24.6	29.5
85°	41.3	43.3	147.6	208.6	247.9	163.3	114.1	219.4	29.5	14.8	28.5
87.5°	29.5	28.5	41.3	93.5	68.9	42.3	67.9	115.1	6.9	6.9	5.9
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°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6
2.5°	758.6	749.7	739.9	721.2	716.3	713.3	696.6	695.6	692.7	685.8	682.8
5°	737.9	723.2	704.5	684.8	669.1	640.5	606.1	588.4	566.7	567.7	560.8
7.5°	735.0	707.4	680.9	639.5	589.4	536.2	483.1	448.7	424.1	409.3	412.3
10°	721.2	700.5	657.2	580.5	499.8	419.1	351.3	300.1	270.6	247.9	254.8
12.5°	727.1	686.8	625.8	523.4	408.3	308.9	224.3	175.1	153.5	145.6	147.6
15°	723.2	686.8	607.1	461.4	320.8	209.6	145.6	129.9	125.9	125.9	124.0
17.5°	735.0	694.6	575.6	400.4	230.2	139.7	125.0	122.0	119.1	119.1	119.1
20°	751.7	698.6	553.9	332.6	162.3	123.0	117.1	115.1	114.1	114.1	113.1
22.5°	752.7	694.6	513.6	257.8	125.0	116.1	111.2	110.2	110.2	108.2	108.2
25°	758.6	698.6	470.3	193.8	116.1	109.2	105.3	104.3	105.3	104.3	103.3
27.5°	773.3	705.5	427.0	141.7	109.2	103.3	100.4	99.4	99.4	99.4	97.4
30°	792.0	705.5	378.8	117.1	103.3	97.4	94.5	93.5	92.5	92.5	92.5
32.5°	831.4	728.1	319.8	104.3	95.4	90.5	87.6	87.6	86.6	86.6	85.6
35°	880.6	743.8	259.8	96.4	88.6	83.6	80.7	80.7	79.7	79.7	78.7
37.5°	941.6	783.2	198.7	90.5	81.7	76.7	73.8	73.8	73.8	72.8	72.8
40°	1028.2	823.5	147.6	82.6	74.8	69.9	67.9	66.9	65.9	65.9	64.0
42.5°	1120.7	885.5	110.2	76.7	68.9	64.9	62.0	59.0	59.0	56.1	56.1
45°	1221.0	939.6	89.5	69.9	63.0	58.1	55.1	53.1	50.2	48.2	48.2
47.5°	1319.4	973.1	78.7	62.0	57.1	53.1	50.2	46.2	42.3	41.3	40.3
50°	1399.1	982.9	69.9	56.1	52.1	48.2	44.3	39.4	35.4	33.5	32.5
52.5°	1399.1	928.8	63.0	50.2	47.2	43.3	38.4	32.5	27.5	25.6	24.6
55°	1399.1	843.2	56.1	46.2	42.3	39.4	32.5	26.6	21.6	18.7	17.7
57.5°	1378.4	739.9	50.2	41.3	37.4	33.5	27.5	20.7	15.7	12.8	12.8
60°	1321.4	631.7	43.3	36.4	32.5	27.5	21.6	14.8	9.8	6.9	6.9
62.5°	1248.6	502.8	37.4	30.5	26.6	22.6	16.7	9.8	3.9	2.0	2.0
65°	1121.6	370.9	32.5	25.6	20.7	16.7	10.8	3.9	0.0	0.0	0.0
67.5°	925.9	247.9	25.6	20.7	17.7	11.8	6.9	1.0	0.0	0.0	0.0
70°	651.3	140.7	19.7	14.8	12.8	7.9	2.0	0.0	0.0	0.0	0.0
72.5°	267.6	62.0	13.8	10.8	8.9	3.9	0.0	0.0	0.0	0.0	0.0
75°	72.8	27.5	8.9	5.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.3	18.7	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.5	8.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.5	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	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)