

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: P675767

Luminaire Tested: **CCW-SA-1D-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675767
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

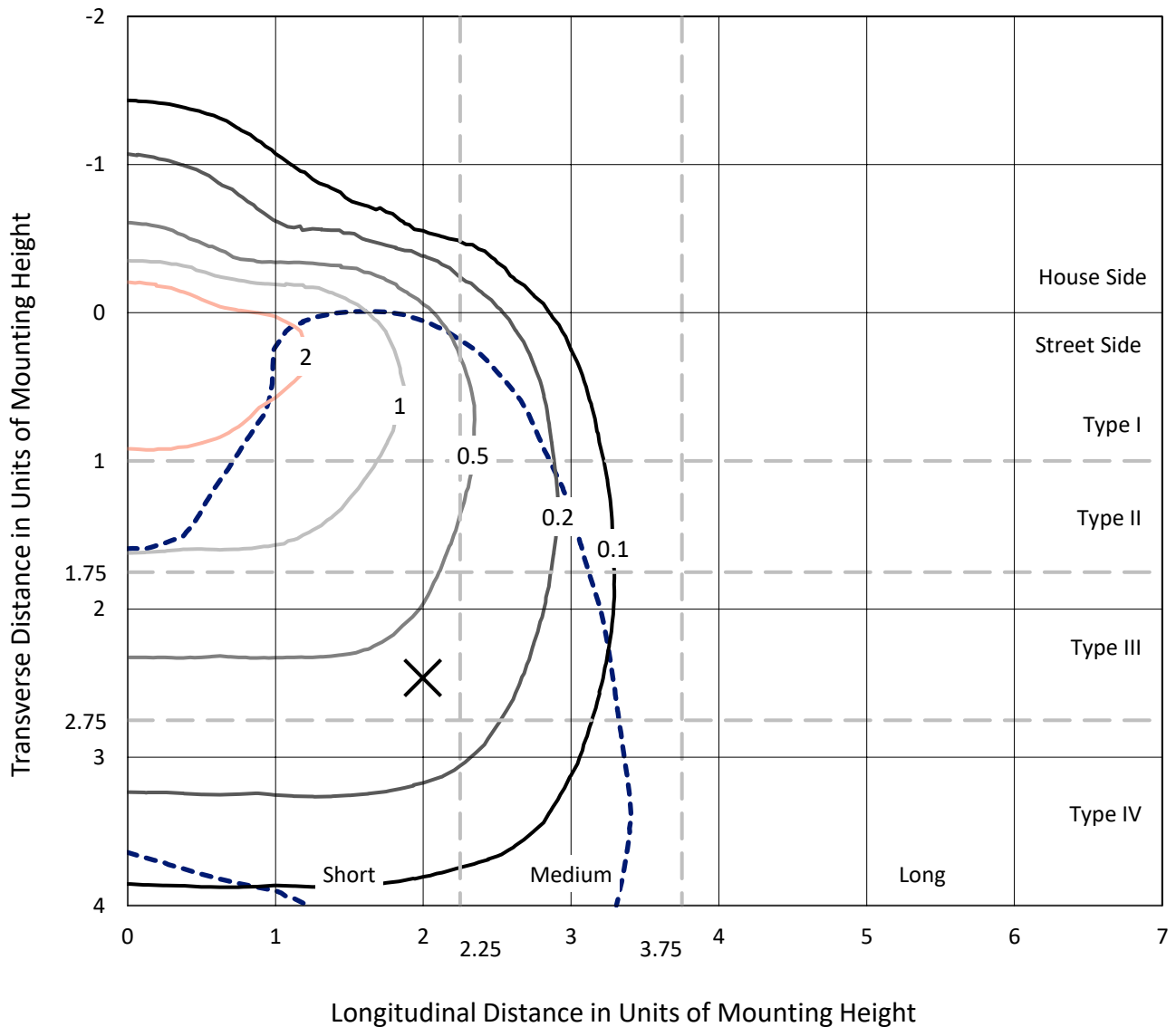
Lumens per Lamp: N/A
Luminaire Lumens: 4659.4 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

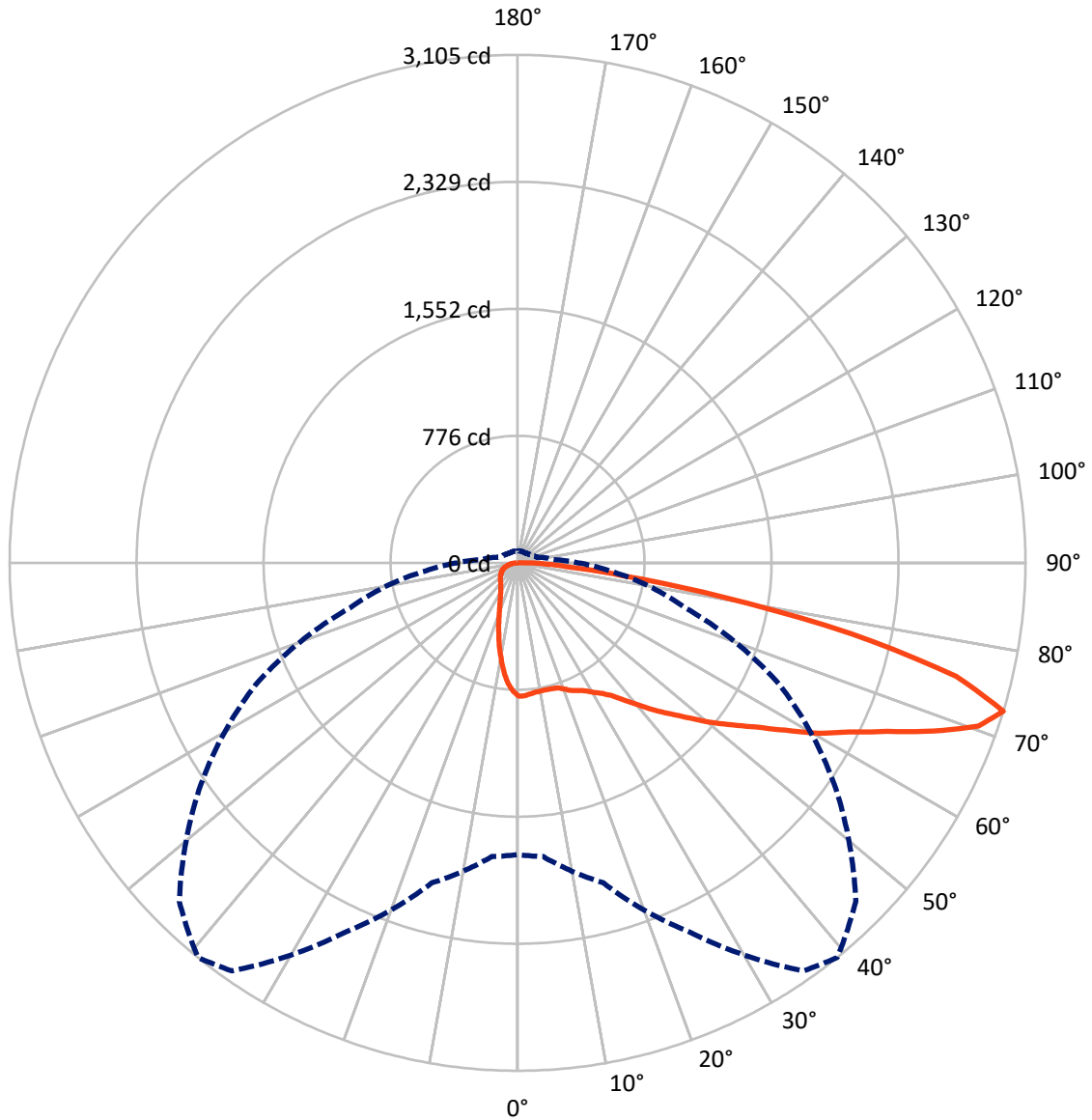
× Max cd
 - - - 1/2 Max cd



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 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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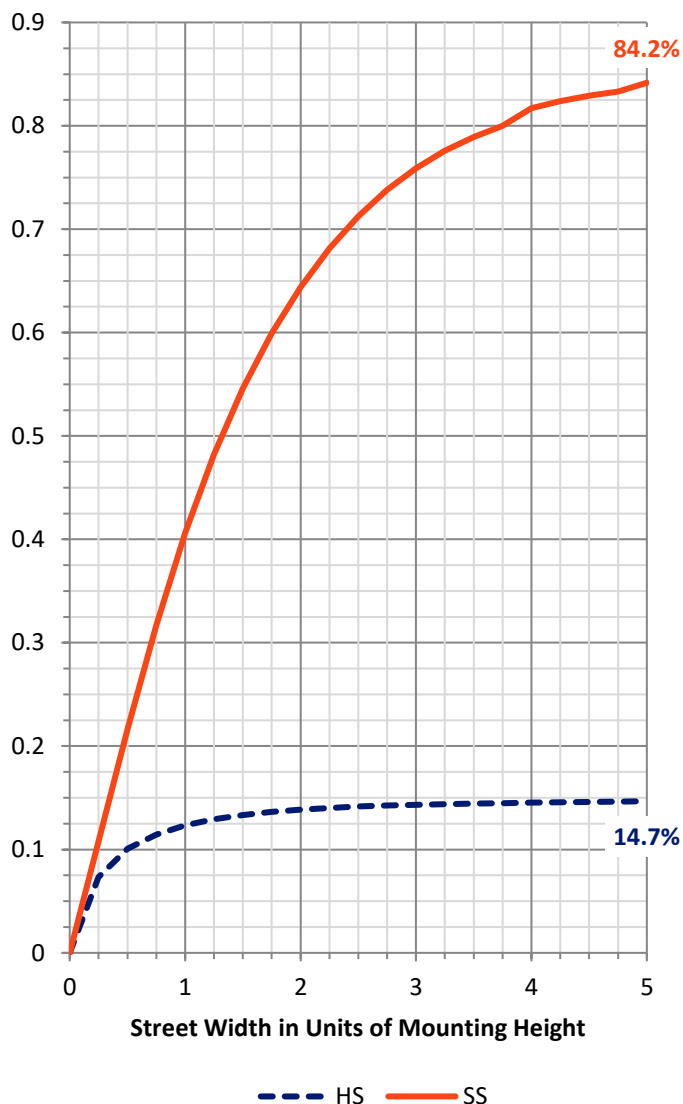
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.5	0.0	692.5
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3966.9	0.0	3966.9
	% Fixture	85.1	0.0	85.1
Total	Lumens	4659.4	0.0	4659.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.5
10°-20°	183.9	3.9
20°-30°	280.2	6.0
30°-40°	409.9	8.8
40°-50°	627.6	13.5
50°-60°	920.5	19.8
60°-70°	1173.9	25.2
70°-80°	848.2	18.2
80°-90°	143.1	3.1
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°	4659.4	100.0
0°-180°	4659.4	100.0

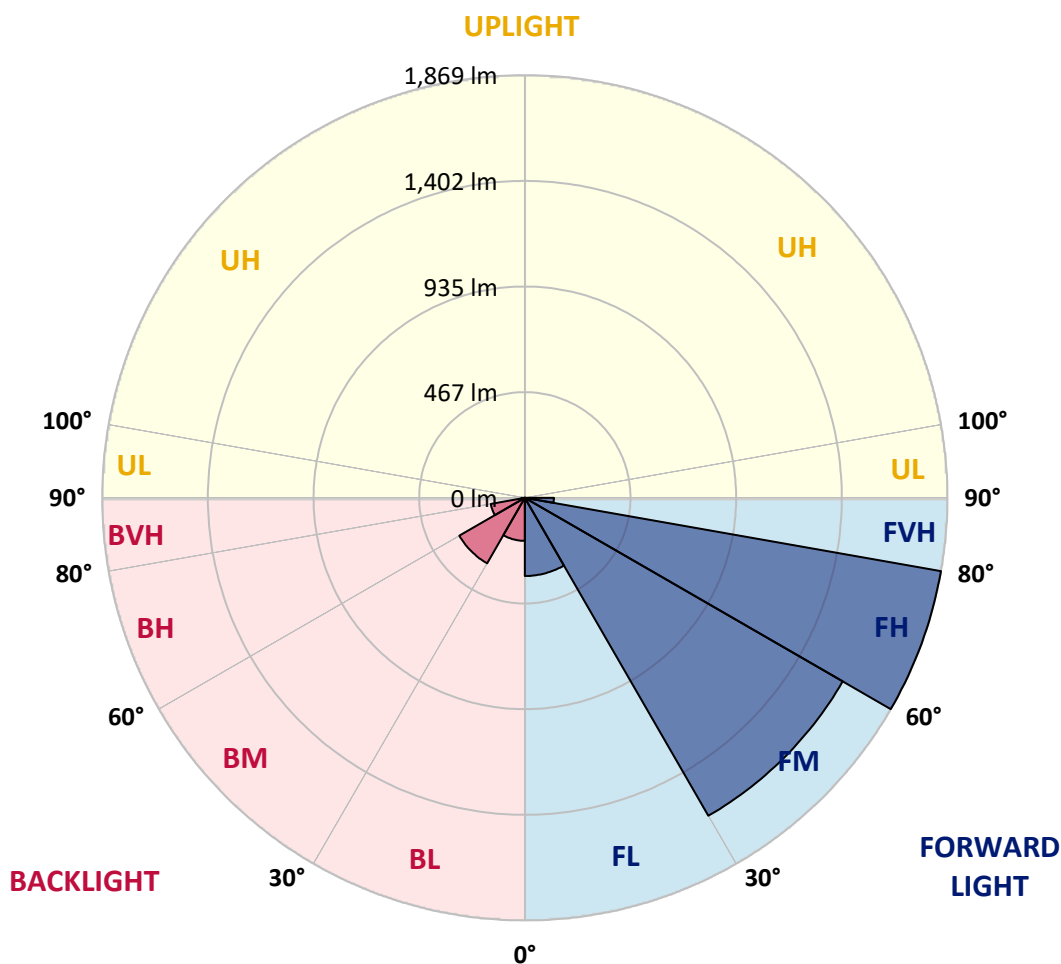


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.8	7.4			
FM (30°-60°)	1623.4	34.8			
FH (60°-80°)	1869.1	40.1			G2/5000
FVH (80°-90°)	128.6	2.8			G2/225
BL (0°-30°)	190.4	4.1	B1/500		
BM (30°-60°)	334.5	7.2	B1/1000		
BH (60°-80°)	153.0	3.3	B1/500		G1/500
BVH (80°-90°)	14.5	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6
2.5°	827.8	829.6	826.1	822.6	820.8	813.8	820.8	817.3	813.8	813.8	813.8
5°	817.3	819.1	819.1	815.6	817.3	805.1	803.3	805.1	799.8	796.3	794.6
7.5°	801.6	805.1	812.1	810.3	803.3	798.1	799.8	798.1	789.3	784.1	770.1
10°	789.3	792.8	796.3	799.8	798.1	796.3	794.6	787.6	785.8	773.6	759.6
12.5°	777.1	777.1	778.8	792.8	794.6	794.6	784.1	784.1	778.8	777.1	756.1
15°	764.8	770.1	784.1	787.6	794.6	798.1	792.8	792.8	784.1	771.8	756.1
17.5°	768.3	777.1	791.1	799.8	803.3	803.3	810.3	805.1	792.8	785.8	770.1
20°	785.8	787.6	805.1	820.8	824.3	824.3	817.3	812.1	803.3	791.1	770.1
22.5°	796.3	808.6	829.6	838.4	848.9	848.9	840.1	827.8	815.6	803.3	780.6
25°	841.9	843.6	852.4	866.4	871.6	864.6	855.9	841.9	826.1	813.8	792.8
27.5°	873.4	882.1	892.6	899.6	890.9	885.6	878.6	862.9	850.6	840.1	810.3
30°	931.1	920.6	927.6	931.1	915.4	918.9	899.6	885.6	871.6	871.6	838.4
32.5°	966.1	974.9	967.9	966.1	953.9	952.1	939.9	924.1	915.4	925.9	880.4
35°	1027.4	1022.1	1022.1	1020.4	1006.4	997.6	997.6	969.6	978.4	1001.1	945.1
37.5°	1058.9	1057.1	1067.6	1076.4	1062.4	1067.6	1062.4	1050.1	1053.6	1093.9	1025.6
40°	1090.4	1102.6	1123.6	1127.1	1135.9	1142.9	1139.4	1137.6	1151.6	1216.4	1134.1
42.5°	1120.1	1130.6	1162.1	1190.1	1211.1	1233.9	1235.6	1235.6	1281.2	1373.9	1265.4
45°	1158.6	1167.4	1211.1	1267.2	1302.2	1317.9	1331.9	1347.7	1408.9	1519.2	1405.4
47.5°	1211.1	1218.1	1270.7	1340.7	1408.9	1417.7	1445.7	1463.2	1555.9	1668.0	1548.9
50°	1286.4	1281.2	1323.2	1424.7	1491.2	1533.2	1573.4	1604.9	1696.0	1818.5	1661.0
52.5°	1347.7	1347.7	1379.2	1513.9	1604.9	1645.2	1687.2	1731.0	1836.0	1969.0	1752.0
55°	1452.7	1442.2	1461.4	1601.4	1732.7	1771.2	1851.7	1888.5	1990.0	2081.0	1829.0
57.5°	1524.4	1529.7	1552.4	1717.0	1883.2	1930.5	2011.0	2037.2	2126.5	2198.3	1885.0
60°	1618.9	1601.4	1650.4	1844.7	2049.5	2116.0	2182.5	2198.3	2264.8	2273.5	1911.2
62.5°	1710.0	1706.5	1748.5	1972.5	2228.0	2275.3	2343.5	2361.0	2389.0	2333.0	1874.5
65°	1766.0	1788.7	1867.5	2112.5	2431.0	2483.5	2551.8	2516.8	2485.3	2280.5	1694.2
67.5°	1843.0	1853.5	1974.2	2264.8	2665.6	2744.3	2803.8	2665.6	2431.0	2065.2	1426.4
70°	1860.5	1888.5	2046.0	2424.0	2907.1	2987.6	2991.1	2614.8	2233.3	1680.2	1034.4
72.5°	1783.5	1802.7	2025.0	2490.6	3045.4	3104.9	2924.6	2364.5	1769.5	1058.9	563.6
75°	1499.9	1554.2	1762.5	2285.8	2791.6	2768.8	2478.3	1804.5	1062.4	469.1	238.0
77.5°	1044.9	1046.6	1263.7	1662.7	2089.8	2084.5	1767.7	1046.6	455.1	189.0	140.0
80°	463.8	497.1	628.3	896.1	1268.9	1268.9	1030.9	519.8	227.5	122.5	96.3
82.5°	273.0	283.5	336.0	418.3	617.8	651.1	493.6	346.5	155.8	77.0	59.5
85°	201.3	218.8	250.3	252.0	292.3	297.5	273.0	301.0	106.8	42.0	49.0
87.5°	150.5	161.0	199.5	166.3	155.8	147.0	168.0	308.0	40.3	21.0	15.8
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°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6
2.5°	806.8	806.8	803.3	796.3	796.3	782.3	785.8	789.3	780.6	780.6	782.3
5°	794.6	787.6	778.8	768.3	761.3	742.1	738.6	726.3	724.6	721.1	715.8
7.5°	770.1	759.6	743.8	728.1	705.3	687.8	666.8	649.3	642.3	637.1	635.3
10°	747.3	745.6	719.3	687.8	652.8	619.6	588.1	565.3	551.3	542.6	540.8
12.5°	747.3	733.3	696.6	652.8	602.1	553.1	512.8	481.3	462.1	448.1	442.8
15°	743.8	729.8	680.8	614.3	556.6	490.1	434.1	400.8	372.8	358.8	360.5
17.5°	747.3	726.3	658.1	586.3	505.8	434.1	367.5	327.3	299.3	288.8	287.0
20°	749.1	722.8	640.6	547.8	453.3	372.8	309.8	271.3	250.3	243.3	243.3
22.5°	745.6	712.3	614.3	502.3	407.8	322.0	269.5	236.3	222.3	213.5	217.0
25°	761.3	710.6	589.8	463.8	355.3	280.0	239.8	215.3	206.5	201.3	203.0
27.5°	764.8	710.6	570.6	420.1	309.8	248.5	217.0	201.3	194.3	190.8	189.0
30°	778.8	714.1	547.8	376.3	273.0	224.0	199.5	190.8	185.5	183.8	183.8
32.5°	817.3	724.6	523.3	339.5	241.5	203.0	187.3	180.3	176.8	175.0	176.8
35°	862.9	752.6	497.1	301.0	218.8	189.0	176.8	171.5	169.8	169.8	169.8
37.5°	932.9	794.6	474.3	269.5	199.5	175.0	166.3	164.5	162.8	164.5	164.5
40°	1013.4	840.1	453.3	245.0	185.5	166.3	157.5	157.5	155.8	157.5	159.3
42.5°	1106.1	896.1	432.3	220.5	173.3	159.3	152.3	150.5	148.8	152.3	154.0
45°	1233.9	973.1	418.3	206.5	164.5	152.3	145.3	145.3	143.5	143.5	147.0
47.5°	1340.7	1046.6	418.3	192.5	159.3	147.0	140.0	140.0	136.5	138.3	138.3
50°	1429.9	1109.6	427.1	189.0	152.3	141.8	136.5	133.0	131.3	131.3	131.3
52.5°	1489.4	1148.1	434.1	185.5	148.8	134.8	131.3	129.5	126.0	124.3	126.0
55°	1548.9	1174.4	435.8	185.5	143.5	127.8	124.3	124.3	120.8	119.0	119.0
57.5°	1571.7	1163.9	411.3	182.0	140.0	122.5	119.0	117.3	115.5	113.8	113.8
60°	1561.2	1125.4	357.0	173.3	136.5	119.0	112.0	112.0	112.0	108.5	110.3
62.5°	1489.4	994.1	287.0	159.3	131.3	112.0	105.0	108.5	108.5	106.8	106.8
65°	1300.4	820.8	232.8	147.0	124.3	106.8	99.8	105.0	106.8	105.0	103.3
67.5°	1039.6	631.8	192.5	133.0	115.5	98.0	92.8	98.0	99.8	98.0	98.0
70°	714.1	407.8	155.8	119.0	103.3	89.3	84.0	87.5	87.5	89.3	89.3
72.5°	369.3	220.5	127.8	101.5	89.3	80.5	75.3	75.3	73.5	73.5	73.5
75°	183.8	150.5	106.8	85.8	75.3	68.3	64.8	61.3	61.3	61.3	61.3
77.5°	127.8	115.5	87.5	68.3	61.3	56.0	56.0	50.8	50.8	50.8	50.8
80°	96.3	91.0	66.5	52.5	47.3	43.8	43.8	42.0	42.0	40.3	40.3
82.5°	68.3	73.5	50.8	38.5	35.0	33.3	33.3	31.5	31.5	28.0	28.0
85°	54.3	61.3	38.5	28.0	26.3	22.8	22.8	21.0	21.0	19.3	17.5
87.5°	15.8	33.3	15.8	10.5	10.5	10.5	10.5	8.8	8.8	7.0	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

(END OF REPORT)