

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: P675699

Luminaire Tested: **CCW-SA-1B-740-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675699
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-740-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

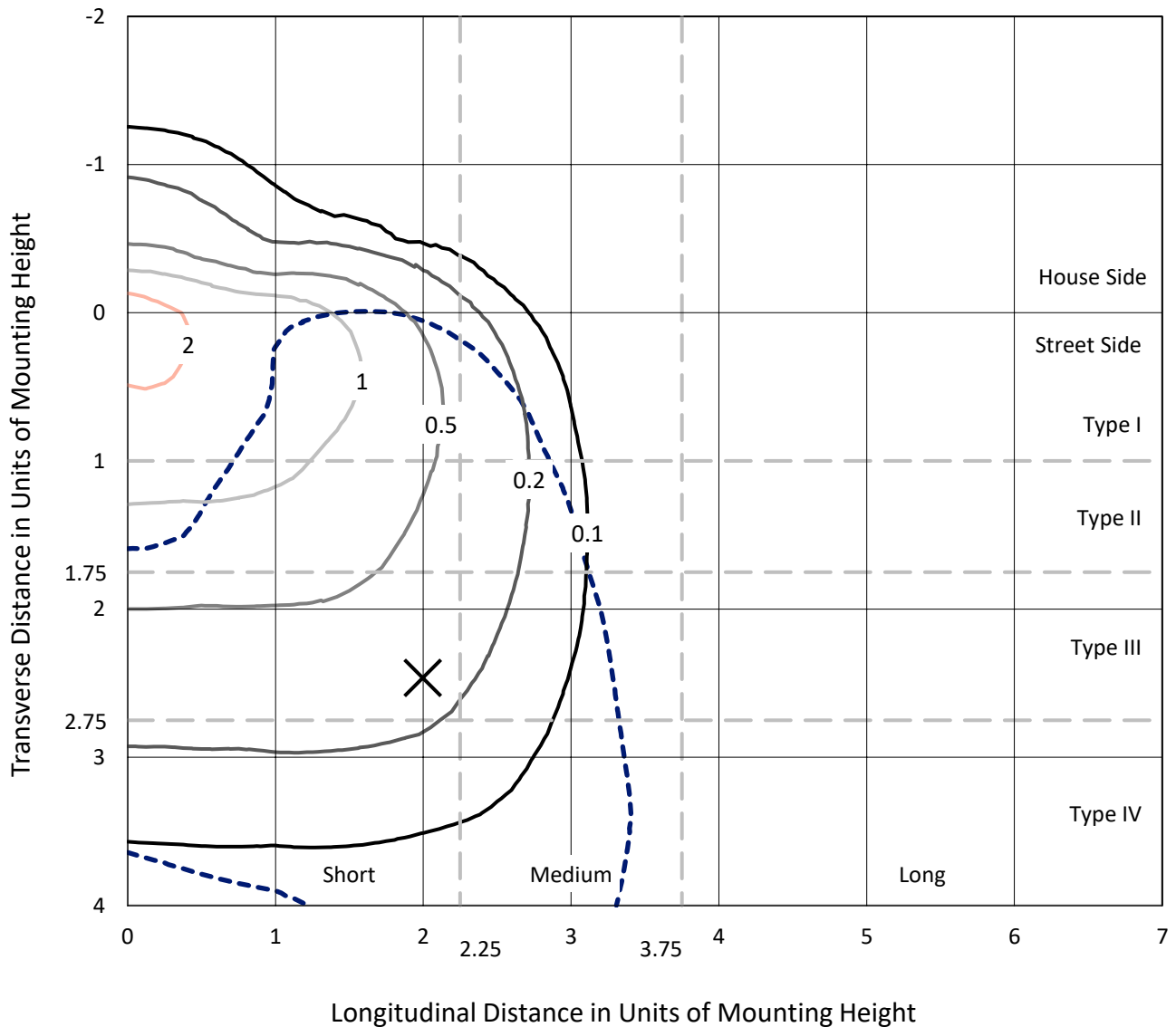
Lumens per Lamp: N/A
Luminaire Lumens: 3384.3 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

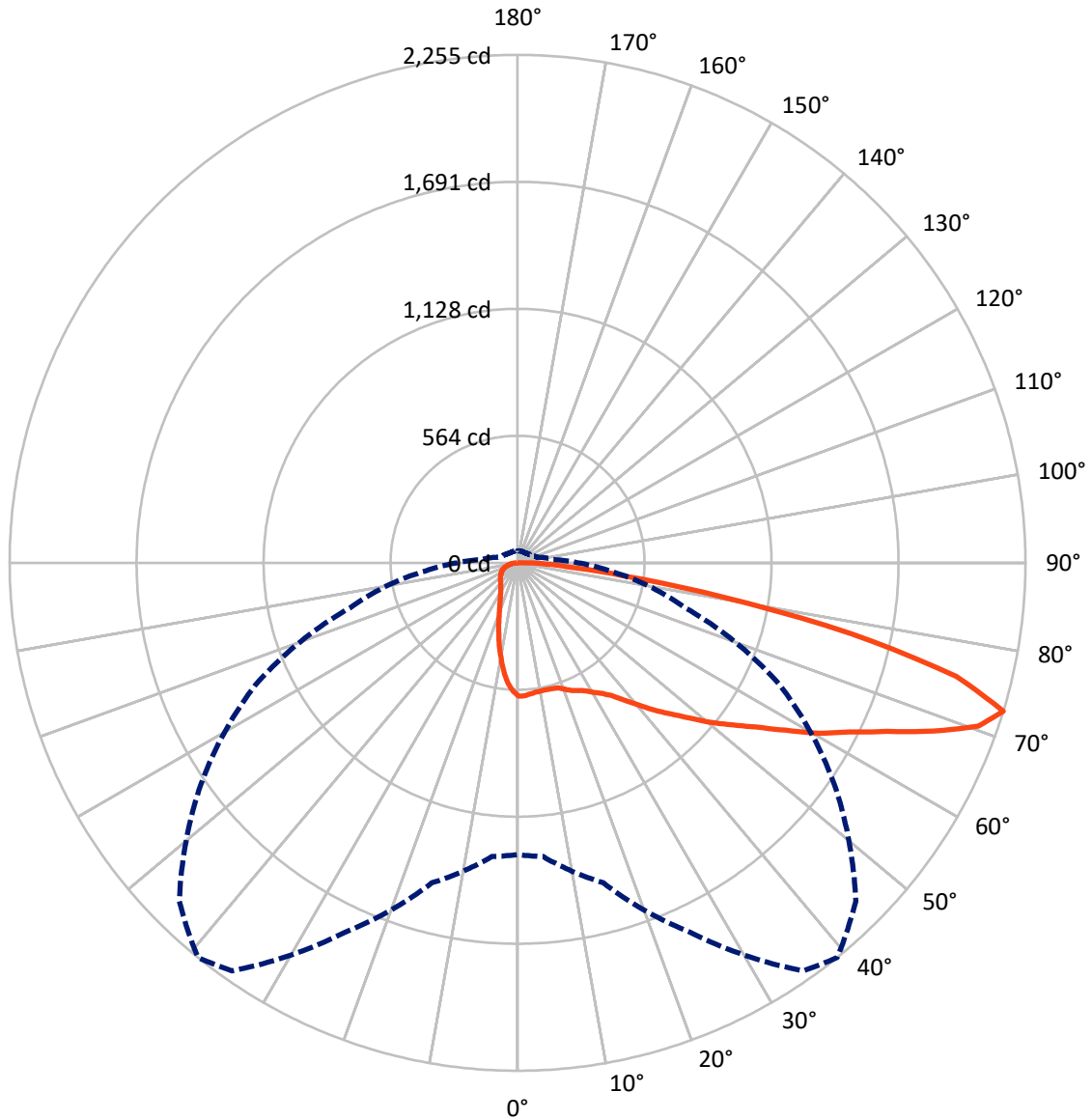
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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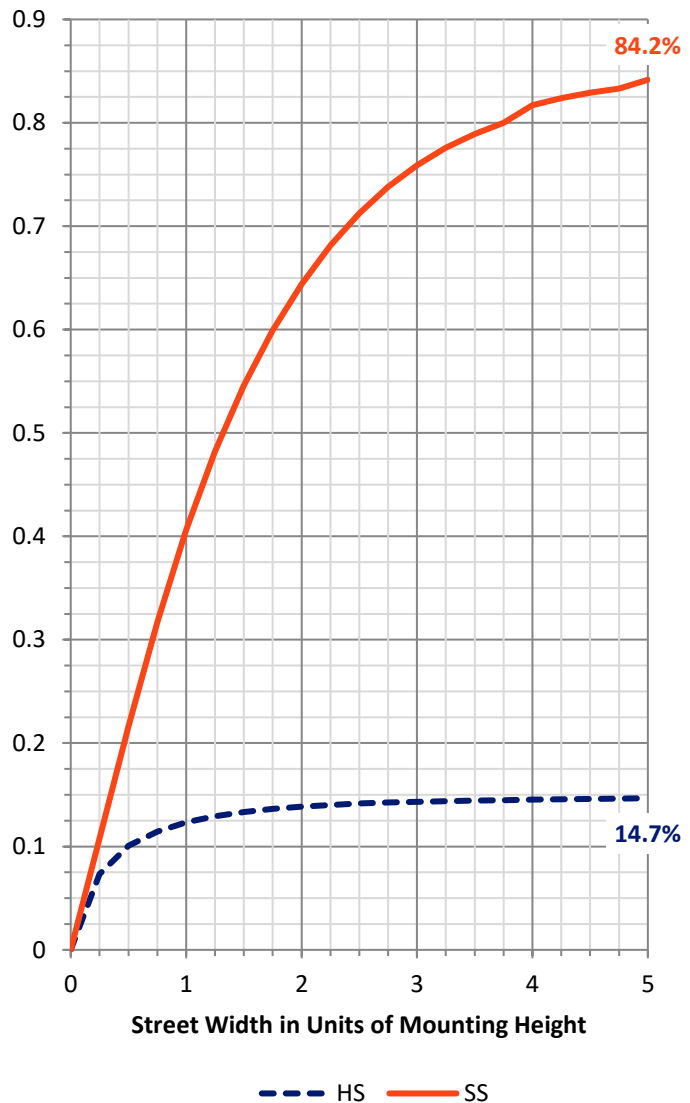
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.0	0.0	503.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2881.3	0.0	2881.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	3384.3	0.0	3384.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.5
10°-20°	133.6	3.9
20°-30°	203.5	6.0
30°-40°	297.7	8.8
40°-50°	455.8	13.5
50°-60°	668.6	19.8
60°-70°	852.7	25.2
70°-80°	616.1	18.2
80°-90°	103.9	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°	3384.3	100.0
0°-180°	3384.3	100.0

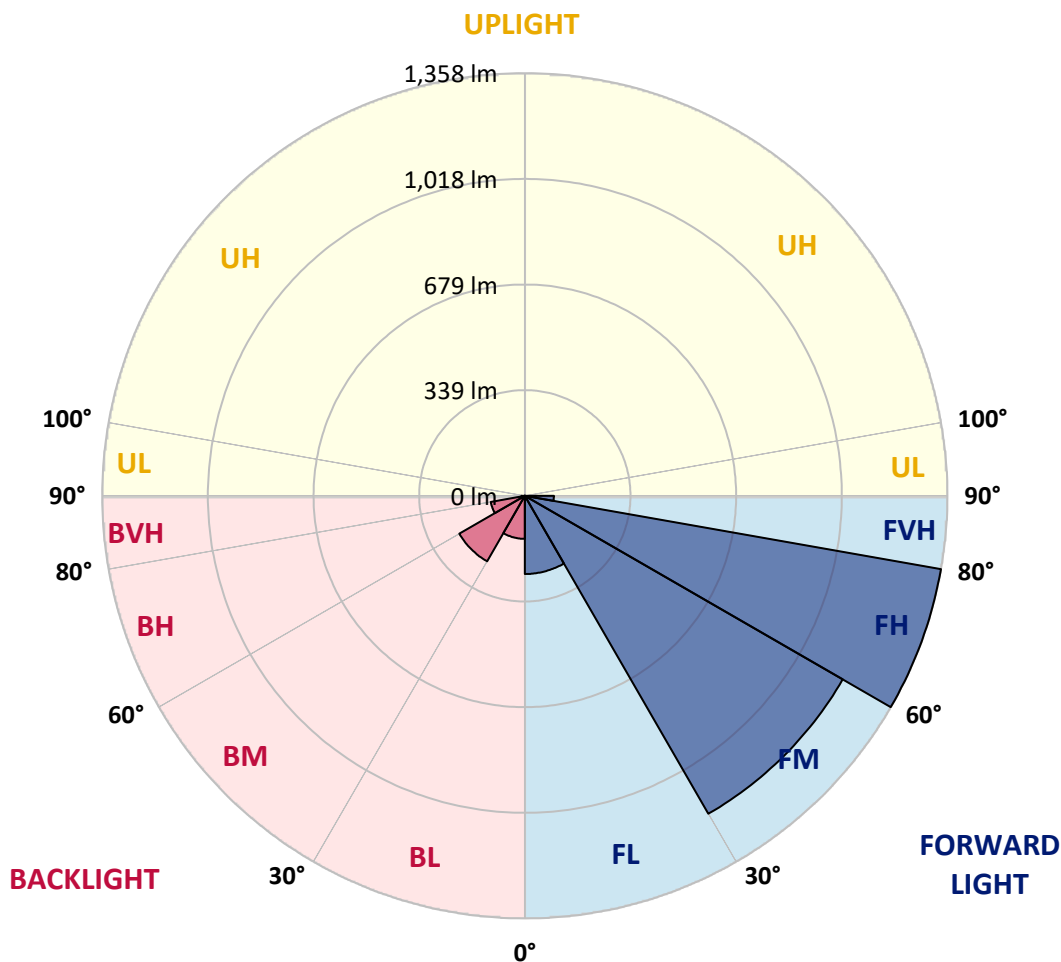


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.2	7.4			
FM (30°-60°)	1179.2	34.8			
FH (60°-80°)	1357.6	40.1			G1/1800
FVH (80°-90°)	93.4	2.8			G1/100
BL (0°-30°)	138.3	4.1	B1/500		
BM (30°-60°)	243.0	7.2	B1/1000		
BH (60°-80°)	111.1	3.3	B1/500		G1/500
BVH (80°-90°)	10.5	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	601.3	602.6	600.0	597.5	596.2	591.1	596.2	593.7	591.1	591.1	591.1
5°	593.7	594.9	594.9	592.4	593.7	584.8	583.5	584.8	581.0	578.4	577.1
7.5°	582.2	584.8	589.9	588.6	583.5	579.7	581.0	579.7	573.3	569.5	559.3
10°	573.3	575.9	578.4	581.0	579.7	578.4	577.1	572.1	570.8	561.9	551.7
12.5°	564.4	564.4	565.7	575.9	577.1	577.1	569.5	569.5	565.7	564.4	549.2
15°	555.5	559.3	569.5	572.1	577.1	579.7	575.9	575.9	569.5	560.6	549.2
17.5°	558.1	564.4	574.6	581.0	583.5	583.5	588.6	584.8	575.9	570.8	559.3
20°	570.8	572.1	584.8	596.2	598.8	598.8	593.7	589.9	583.5	574.6	559.3
22.5°	578.4	587.3	602.6	608.9	616.5	616.5	610.2	601.3	592.4	583.5	567.0
25°	611.5	612.7	619.1	629.3	633.1	628.0	621.6	611.5	600.0	591.1	575.9
27.5°	634.3	640.7	648.3	653.4	647.1	643.2	638.2	626.7	617.8	610.2	588.6
30°	676.3	668.7	673.8	676.3	664.9	667.4	653.4	643.2	633.1	633.1	608.9
32.5°	701.7	708.1	703.0	701.7	692.8	691.6	682.7	671.2	664.9	672.5	639.4
35°	746.2	742.4	742.4	741.1	731.0	724.6	724.6	704.3	710.6	727.1	686.5
37.5°	769.1	767.8	775.5	781.8	771.6	775.5	771.6	762.7	765.3	794.5	744.9
40°	792.0	800.9	816.1	818.7	825.0	830.1	827.6	826.3	836.5	883.5	823.8
42.5°	813.6	821.2	844.1	864.4	879.7	896.2	897.5	897.5	930.5	997.9	919.1
45°	841.6	847.9	879.7	920.4	945.8	957.2	967.4	978.8	1023.3	1103.4	1020.8
47.5°	879.7	884.8	922.9	973.8	1023.3	1029.7	1050.0	1062.8	1130.1	1211.5	1125.0
50°	934.4	930.5	961.1	1034.8	1083.1	1113.6	1142.8	1165.7	1231.8	1320.8	1206.4
52.5°	978.8	978.8	1001.7	1099.6	1165.7	1195.0	1225.5	1257.2	1333.5	1430.1	1272.5
55°	1055.1	1047.5	1061.5	1163.2	1258.5	1286.5	1345.0	1371.7	1445.4	1511.5	1328.4
57.5°	1107.2	1111.1	1127.6	1247.1	1367.8	1402.2	1460.6	1479.7	1544.5	1596.7	1369.1
60°	1175.9	1163.2	1198.8	1339.9	1488.6	1536.9	1585.2	1596.7	1645.0	1651.3	1388.2
62.5°	1242.0	1239.5	1270.0	1432.7	1618.3	1652.6	1702.2	1714.9	1735.2	1694.6	1361.5
65°	1282.7	1299.2	1356.4	1534.4	1765.7	1803.9	1853.5	1828.0	1805.2	1656.4	1230.6
67.5°	1338.6	1346.2	1434.0	1645.0	1936.1	1993.3	2036.5	1936.1	1765.7	1500.1	1036.1
70°	1351.3	1371.7	1486.1	1760.7	2111.5	2170.0	2172.5	1899.2	1622.1	1220.4	751.3
72.5°	1295.4	1309.4	1470.8	1809.0	2211.9	2255.2	2124.2	1717.4	1285.2	769.1	409.3
75°	1089.4	1128.9	1280.1	1660.2	2027.6	2011.1	1800.1	1310.6	771.6	340.7	172.9
77.5°	758.9	760.2	917.8	1207.7	1517.9	1514.0	1283.9	760.2	330.5	137.3	101.7
80°	336.9	361.0	456.4	650.9	921.6	921.6	748.8	377.6	165.3	89.0	69.9
82.5°	198.3	205.9	244.1	303.8	448.7	472.9	358.5	251.7	113.1	55.9	43.2
85°	146.2	158.9	181.8	183.1	212.3	216.1	198.3	218.7	77.5	30.5	35.6
87.5°	109.3	117.0	144.9	120.8	113.1	106.8	122.0	223.7	29.2	15.3	11.4
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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	586.0	586.0	583.5	578.4	578.4	568.2	570.8	573.3	567.0	567.0	568.2
5°	577.1	572.1	565.7	558.1	553.0	539.0	536.5	527.6	526.3	523.7	519.9
7.5°	559.3	551.7	540.3	528.8	512.3	499.6	484.3	471.6	466.5	462.7	461.5
10°	542.8	541.5	522.5	499.6	474.2	450.0	427.1	410.6	400.4	394.1	392.8
12.5°	542.8	532.6	506.0	474.2	437.3	401.7	372.5	349.6	335.6	325.4	321.6
15°	540.3	530.1	494.5	446.2	404.3	355.9	315.3	291.1	270.8	260.6	261.9
17.5°	542.8	527.6	478.0	425.9	367.4	315.3	267.0	237.7	217.4	209.8	208.5
20°	544.1	525.0	465.3	397.9	329.2	270.8	225.0	197.0	181.8	176.7	176.7
22.5°	541.5	517.4	446.2	364.8	296.2	233.9	195.8	171.6	161.4	155.1	157.6
25°	553.0	516.1	428.4	336.9	258.1	203.4	174.2	156.4	150.0	146.2	147.5
27.5°	555.5	516.1	414.4	305.1	225.0	180.5	157.6	146.2	141.1	138.6	137.3
30°	565.7	518.7	397.9	273.3	198.3	162.7	144.9	138.6	134.8	133.5	133.5
32.5°	593.7	526.3	380.1	246.6	175.4	147.5	136.0	130.9	128.4	127.1	128.4
35°	626.7	546.6	361.0	218.7	158.9	137.3	128.4	124.6	123.3	123.3	123.3
37.5°	677.6	577.1	344.5	195.8	144.9	127.1	120.8	119.5	118.2	119.5	119.5
40°	736.0	610.2	329.2	178.0	134.8	120.8	114.4	114.4	113.1	114.4	115.7
42.5°	803.4	650.9	314.0	160.2	125.9	115.7	110.6	109.3	108.1	110.6	111.9
45°	896.2	706.8	303.8	150.0	119.5	110.6	105.5	105.5	104.2	104.2	106.8
47.5°	973.8	760.2	303.8	139.8	115.7	106.8	101.7	101.7	99.2	100.4	100.4
50°	1038.6	806.0	310.2	137.3	110.6	103.0	99.2	96.6	95.3	95.3	95.3
52.5°	1081.8	833.9	315.3	134.8	108.1	97.9	95.3	94.1	91.5	90.3	91.5
55°	1125.0	853.0	316.5	134.8	104.2	92.8	90.3	90.3	87.7	86.4	86.4
57.5°	1141.6	845.4	298.7	132.2	101.7	89.0	86.4	85.2	83.9	82.6	82.6
60°	1133.9	817.4	259.3	125.9	99.2	86.4	81.4	81.4	81.4	78.8	80.1
62.5°	1081.8	722.1	208.5	115.7	95.3	81.4	76.3	78.8	78.8	77.5	77.5
65°	944.5	596.2	169.1	106.8	90.3	77.5	72.5	76.3	77.5	76.3	75.0
67.5°	755.1	458.9	139.8	96.6	83.9	71.2	67.4	71.2	72.5	71.2	71.2
70°	518.7	296.2	113.1	86.4	75.0	64.8	61.0	63.6	63.6	64.8	64.8
72.5°	268.2	160.2	92.8	73.7	64.8	58.5	54.7	54.7	53.4	53.4	53.4
75°	133.5	109.3	77.5	62.3	54.7	49.6	47.0	44.5	44.5	44.5	44.5
77.5°	92.8	83.9	63.6	49.6	44.5	40.7	40.7	36.9	36.9	36.9	36.9
80°	69.9	66.1	48.3	38.1	34.3	31.8	31.8	30.5	30.5	29.2	29.2
82.5°	49.6	53.4	36.9	28.0	25.4	24.2	24.2	22.9	22.9	20.3	20.3
85°	39.4	44.5	28.0	20.3	19.1	16.5	16.5	15.3	15.3	14.0	12.7
87.5°	11.4	24.2	11.4	7.6	7.6	7.6	7.6	6.4	6.4	5.1	5.1
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)