

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: P675737

Luminaire Tested: **CCW-SA-2A-827-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675737
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

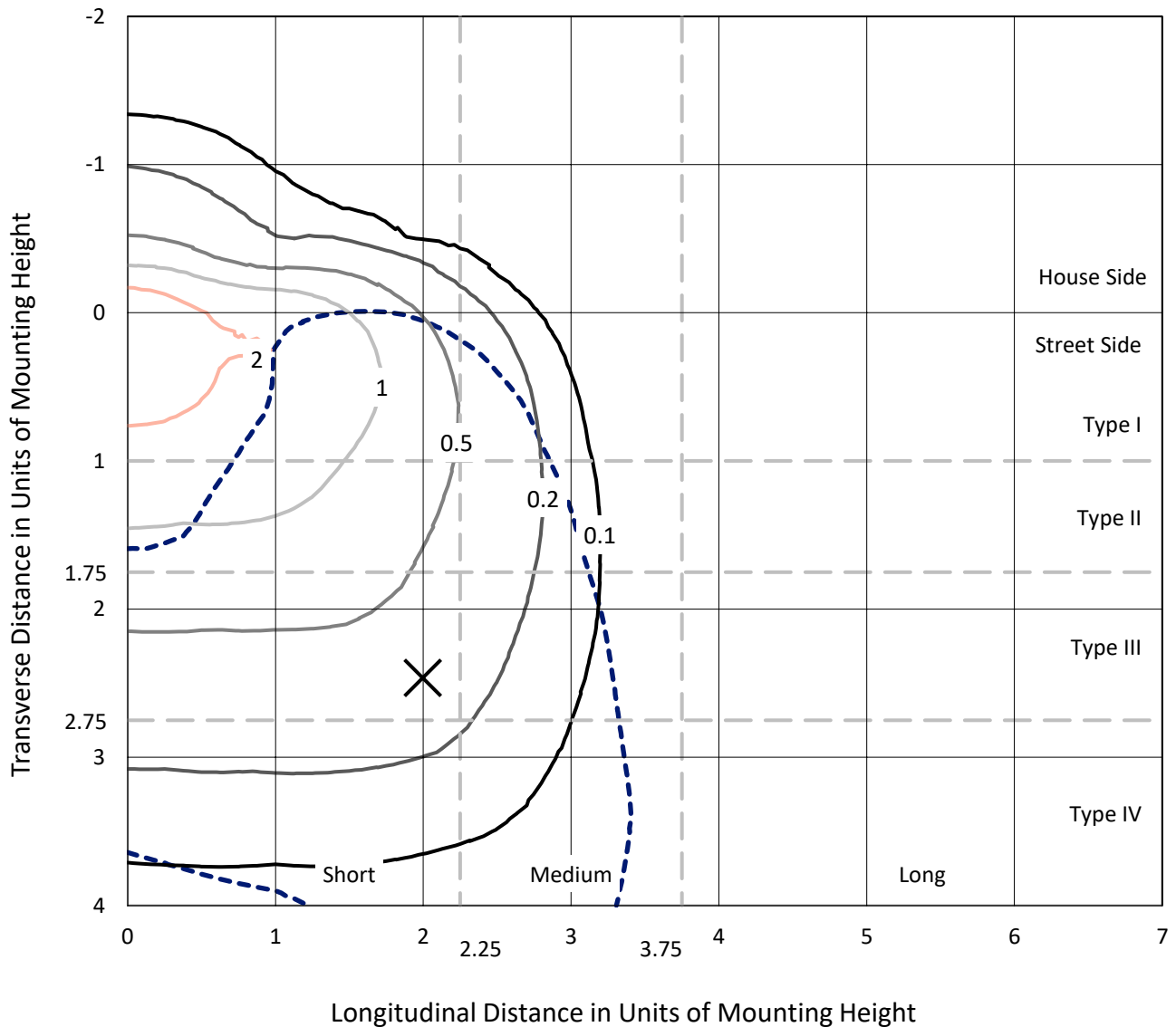
Lumens per Lamp: N/A
Luminaire Lumens: 3941.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

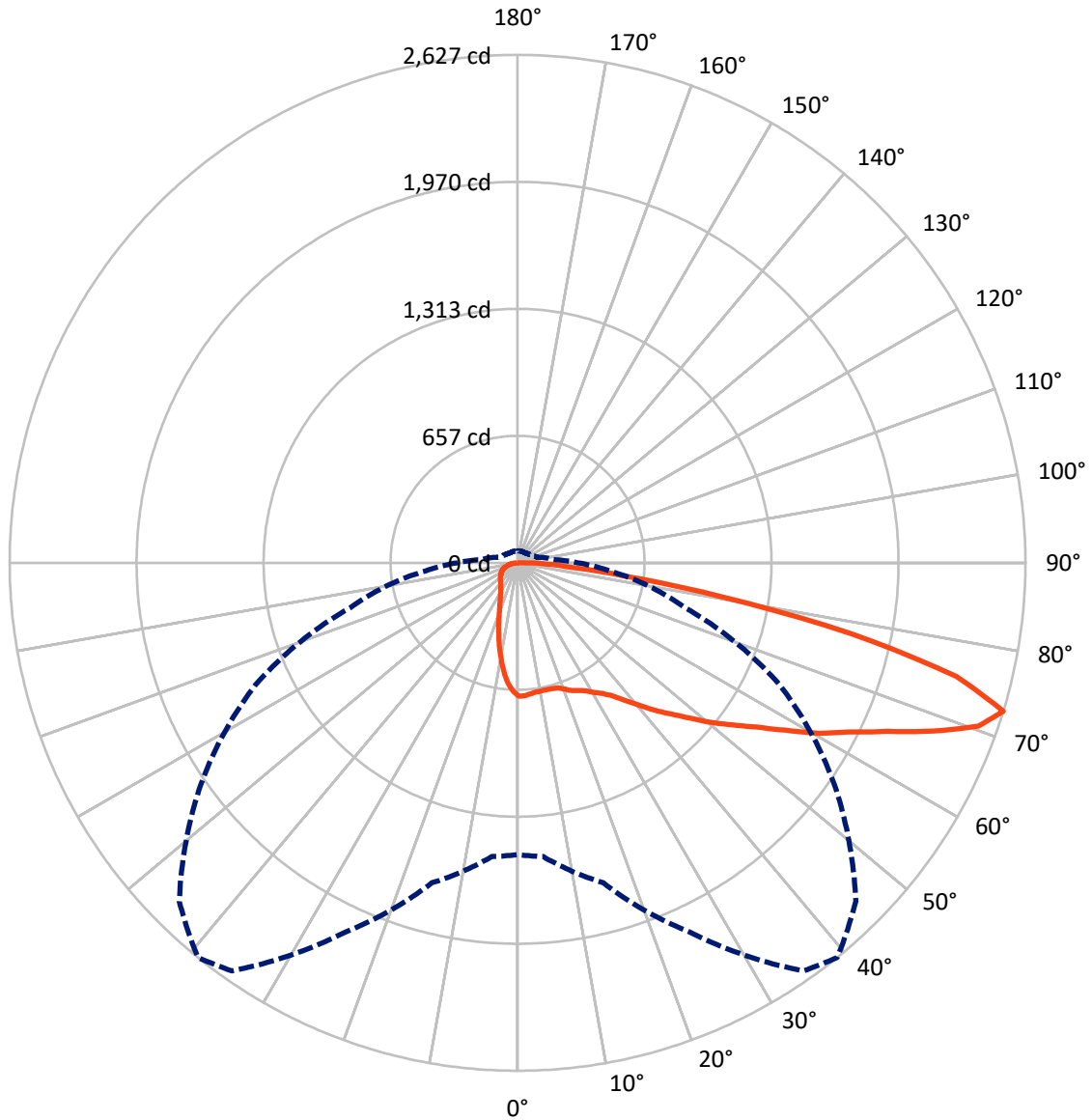
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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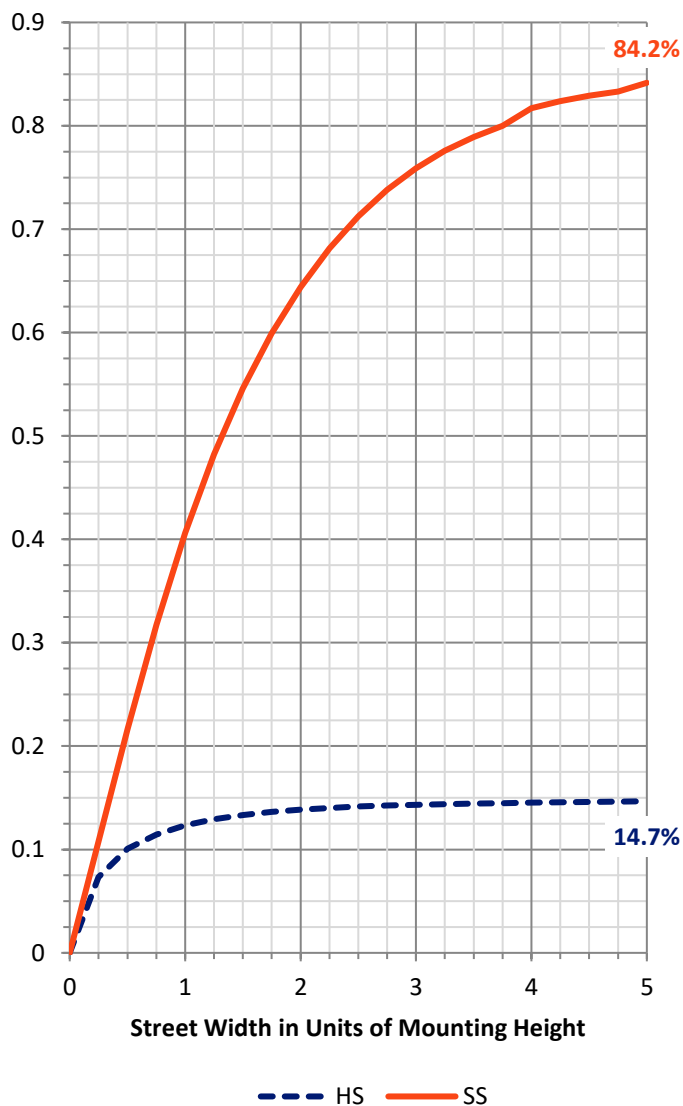
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.8	0.0	585.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3355.6	0.0	3355.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	3941.4	0.0	3941.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.5
10°-20°	155.6	3.9
20°-30°	237.1	6.0
30°-40°	346.8	8.8
40°-50°	530.9	13.5
50°-60°	778.6	19.8
60°-70°	993.0	25.2
70°-80°	717.5	18.2
80°-90°	121.0	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°	3941.4	100.0
0°-180°	3941.4	100.0

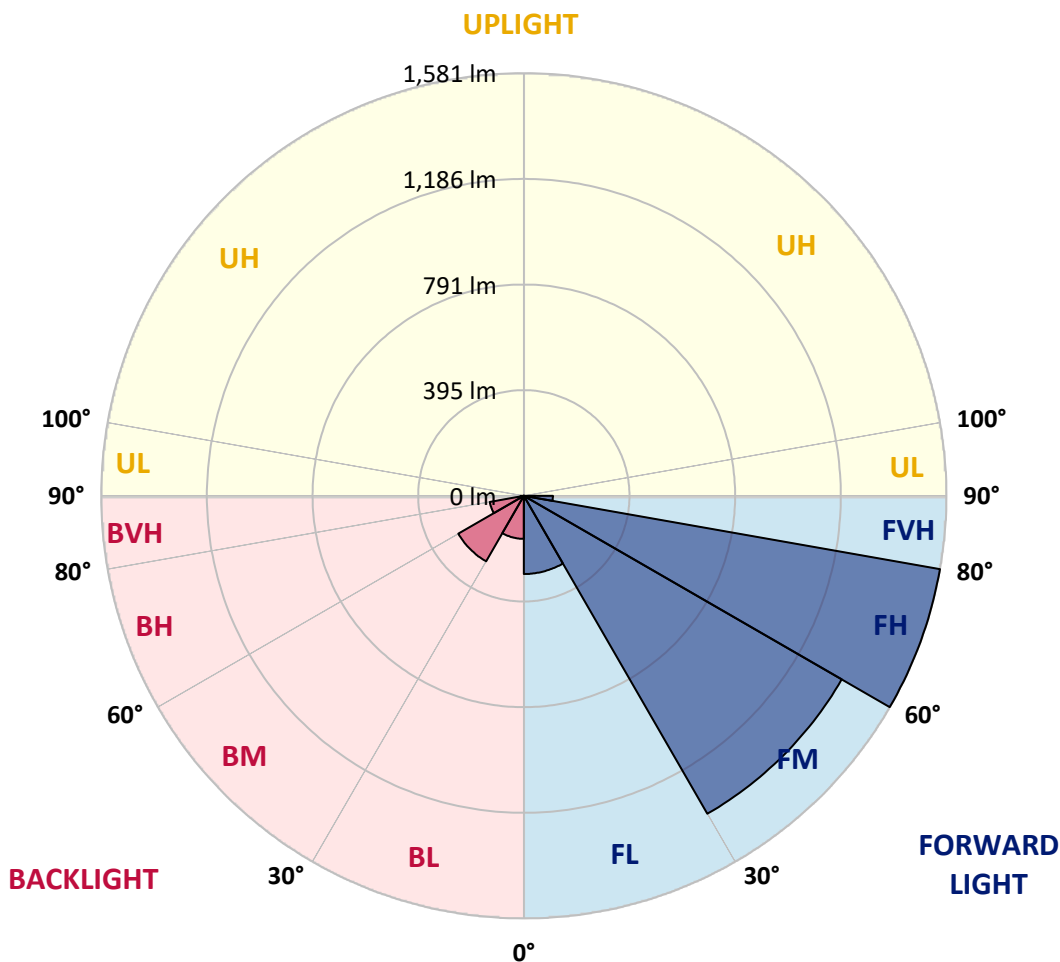


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.5	7.4			
FM (30°-60°)	1373.3	34.8			
FH (60°-80°)	1581.1	40.1			G1/1800
FVH (80°-90°)	108.8	2.8			G2/225
BL (0°-30°)	161.1	4.1	B1/500		
BM (30°-60°)	283.0	7.2	B1/1000		
BH (60°-80°)	129.4	3.3	B1/500		G1/500
BVH (80°-90°)	12.3	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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	700.3	701.8	698.8	695.8	694.4	688.4	694.4	691.4	688.4	688.4	688.4
5°	691.4	692.9	692.9	689.9	691.4	681.0	679.6	681.0	676.6	673.6	672.2
7.5°	678.1	681.0	687.0	685.5	679.6	675.1	676.6	675.1	667.7	663.3	651.4
10°	667.7	670.7	673.6	676.6	675.1	673.6	672.2	666.2	664.8	654.4	642.5
12.5°	657.4	657.4	658.8	670.7	672.2	672.2	663.3	663.3	658.8	657.4	639.6
15°	647.0	651.4	663.3	666.2	672.2	675.1	670.7	670.7	663.3	652.9	639.6
17.5°	650.0	657.4	669.2	676.6	679.6	679.6	685.5	681.0	670.7	664.8	651.4
20°	664.8	666.2	681.0	694.4	697.3	697.3	691.4	687.0	679.6	669.2	651.4
22.5°	673.6	684.0	701.8	709.2	718.1	718.1	710.7	700.3	689.9	679.6	660.3
25°	712.1	713.6	721.0	732.9	737.3	731.4	724.0	712.1	698.8	688.4	670.7
27.5°	738.8	746.2	755.1	761.0	753.6	749.1	743.2	729.9	719.5	710.7	685.5
30°	787.6	778.8	784.7	787.6	774.3	777.3	761.0	749.1	737.3	737.3	709.2
32.5°	817.3	824.7	818.7	817.3	806.9	805.4	795.0	781.7	774.3	783.2	744.7
35°	869.1	864.6	864.6	863.1	851.3	843.9	843.9	820.2	827.6	846.9	799.5
37.5°	895.7	894.2	903.1	910.5	898.7	903.1	898.7	888.3	891.3	925.3	867.6
40°	922.4	932.7	950.5	953.5	960.9	966.8	963.8	962.3	974.2	1029.0	959.4
42.5°	947.5	956.4	983.1	1006.8	1024.5	1043.8	1045.3	1045.3	1083.7	1162.2	1070.4
45°	980.1	987.5	1024.5	1071.9	1101.5	1114.8	1126.7	1140.0	1191.8	1285.1	1188.9
47.5°	1024.5	1030.4	1074.9	1134.1	1191.8	1199.2	1222.9	1237.7	1316.2	1410.9	1310.3
50°	1088.2	1083.7	1119.3	1205.1	1261.4	1296.9	1331.0	1357.6	1434.6	1538.3	1405.0
52.5°	1140.0	1140.0	1166.7	1280.7	1357.6	1391.7	1427.2	1464.2	1553.1	1665.6	1482.0
55°	1228.8	1220.0	1236.2	1354.7	1465.7	1498.3	1566.4	1597.5	1683.4	1760.3	1547.1
57.5°	1289.5	1294.0	1313.2	1452.4	1593.0	1633.0	1701.1	1723.3	1798.8	1859.5	1594.5
60°	1369.5	1354.7	1396.1	1560.5	1733.7	1790.0	1846.2	1859.5	1915.8	1923.2	1616.7
62.5°	1446.5	1443.5	1479.0	1668.6	1884.7	1924.7	1982.4	1997.2	2020.9	1973.5	1585.6
65°	1493.9	1513.1	1579.7	1787.0	2056.5	2100.9	2158.6	2129.0	2102.3	1929.1	1433.1
67.5°	1559.0	1567.9	1670.0	1915.8	2254.8	2321.5	2371.8	2254.8	2056.5	1747.0	1206.6
70°	1573.8	1597.5	1730.7	2050.5	2459.2	2527.3	2530.2	2211.9	1889.2	1421.3	875.0
72.5°	1508.7	1524.9	1713.0	2106.8	2576.1	2626.5	2474.0	2000.2	1496.8	895.7	476.7
75°	1268.8	1314.7	1490.9	1933.6	2361.4	2342.2	2096.4	1526.4	898.7	396.8	201.4
77.5°	883.9	885.4	1068.9	1406.5	1767.7	1763.3	1495.3	885.4	384.9	159.9	118.4
80°	392.3	420.5	531.5	758.0	1073.4	1073.4	872.0	439.7	192.5	103.6	81.4
82.5°	231.0	239.8	284.3	353.8	522.6	550.8	417.5	293.1	131.8	65.1	50.3
85°	170.3	185.1	211.7	213.2	247.2	251.7	231.0	254.7	90.3	35.5	41.5
87.5°	127.3	136.2	168.8	140.6	131.8	124.4	142.1	260.6	34.1	17.8	13.3
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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	682.5	682.5	679.6	673.6	673.6	661.8	664.8	667.7	660.3	660.3	661.8
5°	672.2	666.2	658.8	650.0	644.0	627.7	624.8	614.4	612.9	610.0	605.5
7.5°	651.4	642.5	629.2	615.9	596.7	581.8	564.1	549.3	543.4	538.9	537.4
10°	632.2	630.7	608.5	581.8	552.2	524.1	497.5	478.2	466.4	459.0	457.5
12.5°	632.2	620.3	589.2	552.2	509.3	467.8	433.8	407.1	390.9	379.0	374.6
15°	629.2	617.4	575.9	519.7	470.8	414.5	367.2	339.0	315.4	303.5	305.0
17.5°	632.2	614.4	556.7	496.0	427.9	367.2	310.9	276.9	253.2	244.3	242.8
20°	633.7	611.5	541.9	463.4	383.5	315.4	262.1	229.5	211.7	205.8	205.8
22.5°	630.7	602.6	519.7	424.9	345.0	272.4	228.0	199.9	188.0	180.6	183.6
25°	644.0	601.1	498.9	392.3	300.5	236.9	202.8	182.1	174.7	170.3	171.7
27.5°	647.0	601.1	482.7	355.3	262.1	210.2	183.6	170.3	164.3	161.4	159.9
30°	658.8	604.1	463.4	318.3	231.0	189.5	168.8	161.4	156.9	155.5	155.5
32.5°	691.4	612.9	442.7	287.2	204.3	171.7	158.4	152.5	149.5	148.1	149.5
35°	729.9	636.6	420.5	254.7	185.1	159.9	149.5	145.1	143.6	143.6	143.6
37.5°	789.1	672.2	401.2	228.0	168.8	148.1	140.6	139.2	137.7	139.2	139.2
40°	857.2	710.7	383.5	207.3	156.9	140.6	133.2	133.2	131.8	133.2	134.7
42.5°	935.7	758.0	365.7	186.5	146.6	134.7	128.8	127.3	125.8	128.8	130.3
45°	1043.8	823.2	353.8	174.7	139.2	128.8	122.9	122.9	121.4	121.4	124.4
47.5°	1134.1	885.4	353.8	162.9	134.7	124.4	118.4	118.4	115.5	117.0	117.0
50°	1209.6	938.7	361.2	159.9	128.8	119.9	115.5	112.5	111.0	111.0	111.0
52.5°	1259.9	971.2	367.2	156.9	125.8	114.0	111.0	109.6	106.6	105.1	106.6
55°	1310.3	993.4	368.7	156.9	121.4	108.1	105.1	105.1	102.2	100.7	100.7
57.5°	1329.5	984.5	347.9	154.0	118.4	103.6	100.7	99.2	97.7	96.2	96.2
60°	1320.6	952.0	302.0	146.6	115.5	100.7	94.8	94.8	94.8	91.8	93.3
62.5°	1259.9	840.9	242.8	134.7	111.0	94.8	88.8	91.8	91.8	90.3	90.3
65°	1100.0	694.4	196.9	124.4	105.1	90.3	84.4	88.8	90.3	88.8	87.4
67.5°	879.4	534.5	162.9	112.5	97.7	82.9	78.5	82.9	84.4	82.9	82.9
70°	604.1	345.0	131.8	100.7	87.4	75.5	71.1	74.0	74.0	75.5	75.5
72.5°	312.4	186.5	108.1	85.9	75.5	68.1	63.7	63.7	62.2	62.2	62.2
75°	155.5	127.3	90.3	72.5	63.7	57.7	54.8	51.8	51.8	51.8	51.8
77.5°	108.1	97.7	74.0	57.7	51.8	47.4	47.4	42.9	42.9	42.9	42.9
80°	81.4	77.0	56.3	44.4	40.0	37.0	37.0	35.5	35.5	34.1	34.1
82.5°	57.7	62.2	42.9	32.6	29.6	28.1	28.1	26.6	26.6	23.7	23.7
85°	45.9	51.8	32.6	23.7	22.2	19.2	19.2	17.8	17.8	16.3	14.8
87.5°	13.3	28.1	13.3	8.9	8.9	8.9	8.9	7.4	7.4	5.9	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

(END OF REPORT)