

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: P675770

Luminaire Tested: **CCW-SA-2A-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675770
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

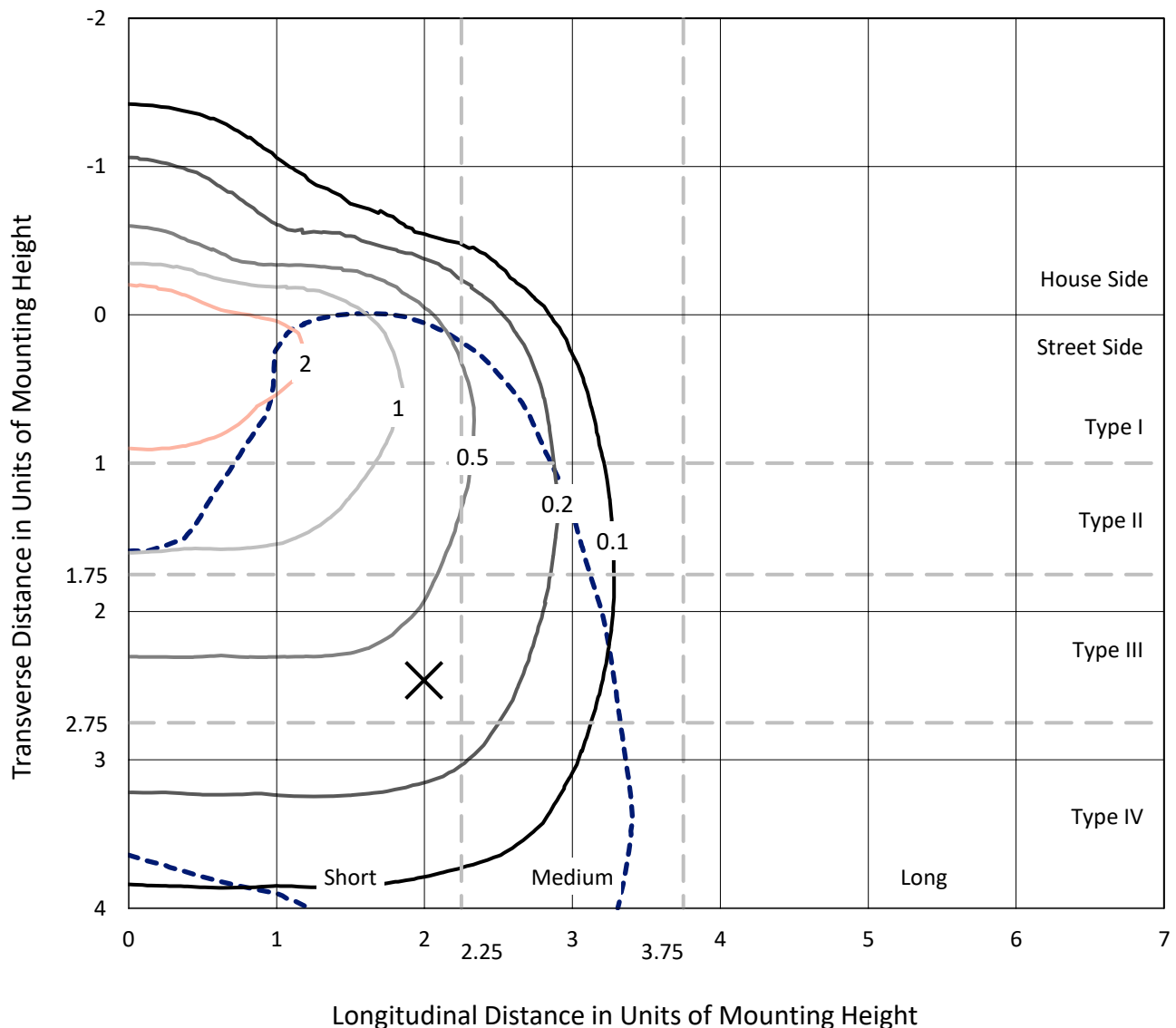
Lumens per Lamp: N/A
Luminaire Lumens: 4571.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

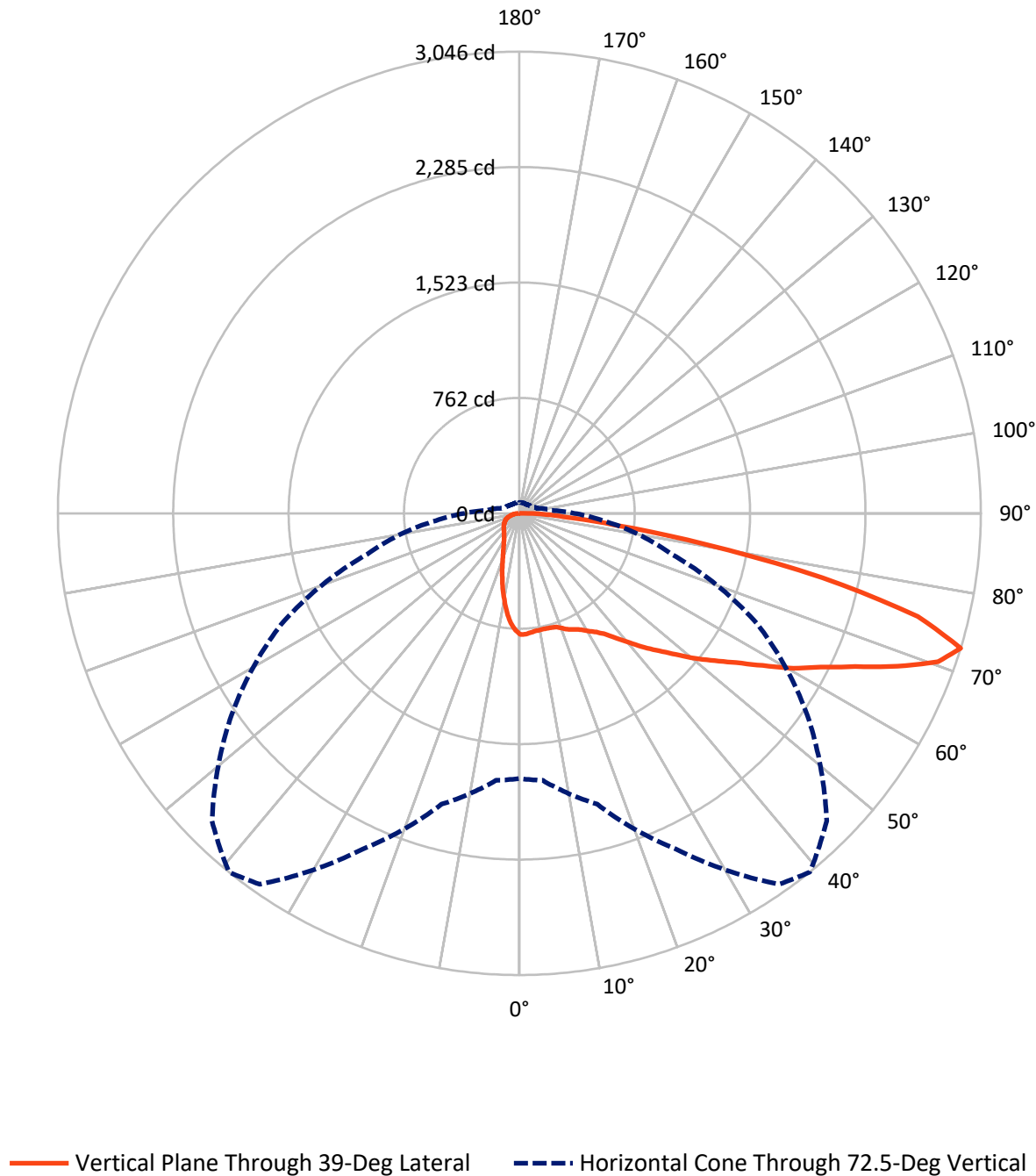
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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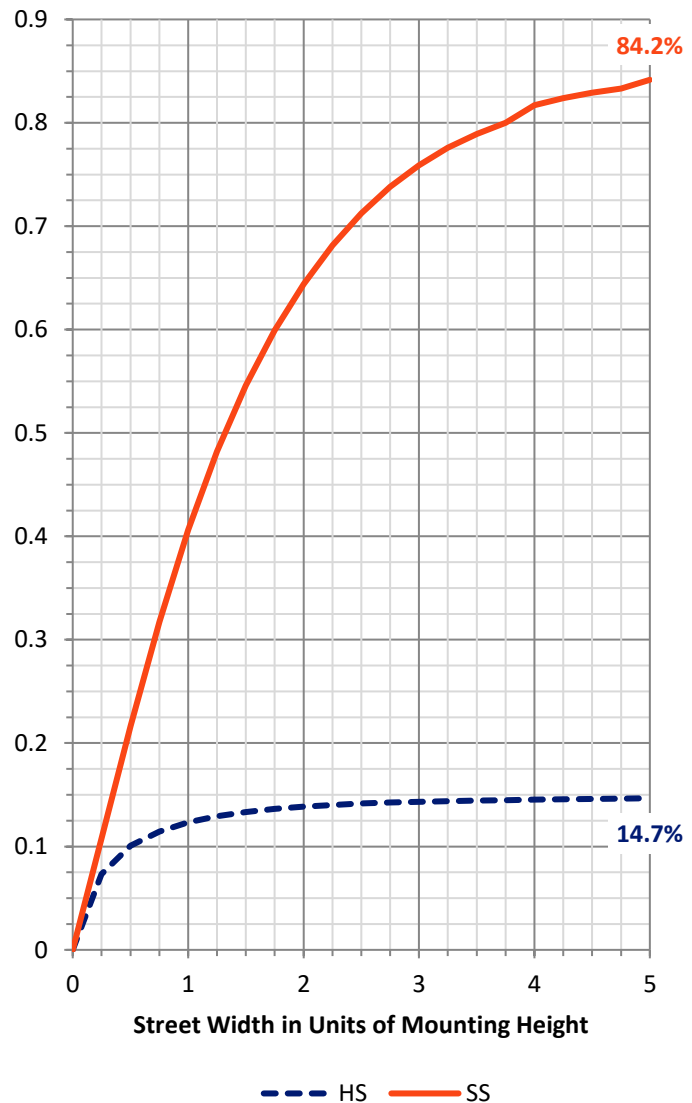
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.4	0.0	679.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3892.0	0.0	3892.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	4571.4	0.0	4571.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.5
10°-20°	180.5	3.9
20°-30°	274.9	6.0
30°-40°	402.2	8.8
40°-50°	615.8	13.5
50°-60°	903.1	19.8
60°-70°	1151.8	25.2
70°-80°	832.2	18.2
80°-90°	140.4	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°	4571.4	100.0
0°-180°	4571.4	100.0

Coefficient of Utilization



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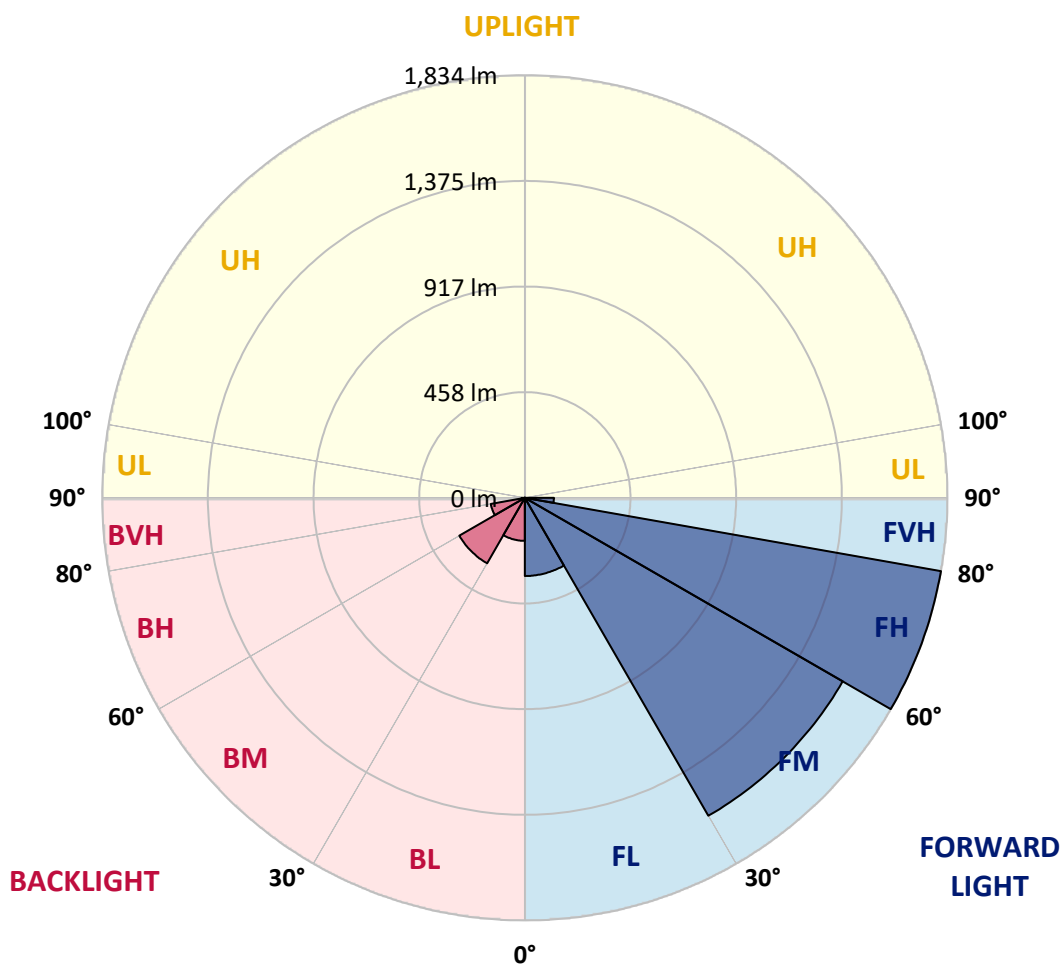
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.3	7.4			
FM	(30°-60°)	1592.8	34.8			
FH	(60°-80°)	1833.8	40.1			G2/5000
FVH	(80°-90°)	126.2	2.8			G2/225
BL	(0°-30°)	186.8	4.1	B1/500		
BM	(30°-60°)	328.2	7.2	B1/1000		
BH	(60°-80°)	150.1	3.3	B1/500		G1/500
BVH	(80°-90°)	14.2	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°	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2
2.5°	812.2	813.9	810.5	807.1	805.4	798.5	805.4	801.9	798.5	798.5	798.5
5°	801.9	803.6	803.6	800.2	801.9	789.9	788.2	789.9	784.7	781.3	779.6
7.5°	786.5	789.9	796.8	795.1	788.2	783.0	784.7	783.0	774.4	769.3	755.6
10°	774.4	777.9	781.3	784.7	783.0	781.3	779.6	772.7	771.0	759.0	745.3
12.5°	762.4	762.4	764.1	777.9	779.6	779.6	769.3	769.3	764.1	762.4	741.8
15°	750.4	755.6	769.3	772.7	779.6	783.0	777.9	777.9	769.3	757.3	741.8
17.5°	753.8	762.4	776.2	784.7	788.2	788.2	795.1	789.9	777.9	771.0	755.6
20°	771.0	772.7	789.9	805.4	808.8	808.8	801.9	796.8	788.2	776.2	755.6
22.5°	781.3	793.3	813.9	822.5	832.8	832.8	824.2	812.2	800.2	788.2	765.9
25°	826.0	827.7	836.3	850.0	855.2	848.3	839.7	826.0	810.5	798.5	777.9
27.5°	856.9	865.5	875.8	882.6	874.0	868.9	862.0	846.6	834.5	824.2	795.1
30°	913.5	903.2	910.1	913.5	898.1	901.5	882.6	868.9	855.2	855.2	822.5
32.5°	947.9	956.5	949.6	947.9	935.9	934.1	922.1	906.7	898.1	908.4	863.7
35°	1008.0	1002.8	1002.8	1001.1	987.4	978.8	978.8	951.3	959.9	982.2	927.3
37.5°	1038.9	1037.2	1047.5	1056.1	1042.3	1047.5	1042.3	1030.3	1033.7	1073.2	1006.3
40°	1069.8	1081.8	1102.4	1105.9	1114.4	1121.3	1117.9	1116.2	1129.9	1193.4	1112.7
42.5°	1099.0	1109.3	1140.2	1167.7	1188.3	1210.6	1212.3	1212.3	1257.0	1348.0	1241.5
45°	1136.8	1145.4	1188.3	1243.2	1277.6	1293.0	1306.8	1322.2	1382.3	1490.5	1378.9
47.5°	1188.3	1195.2	1246.7	1315.4	1382.3	1390.9	1418.4	1435.6	1526.6	1636.5	1519.7
50°	1262.1	1257.0	1298.2	1397.8	1463.0	1504.2	1543.7	1574.7	1663.9	1784.1	1629.6
52.5°	1322.2	1322.2	1353.1	1485.4	1574.7	1614.1	1655.4	1698.3	1801.3	1931.8	1718.9
55°	1425.3	1415.0	1433.8	1571.2	1700.0	1737.8	1816.8	1852.8	1952.4	2041.7	1794.4
57.5°	1495.7	1500.8	1523.1	1684.6	1847.7	1894.0	1973.0	1998.8	2086.4	2156.8	1849.4
60°	1588.4	1571.2	1619.3	1809.9	2010.8	2076.1	2141.3	2156.8	2222.0	2230.6	1875.2
62.5°	1677.7	1674.2	1715.5	1935.3	2186.0	2232.3	2299.3	2316.5	2343.9	2289.0	1839.1
65°	1732.6	1755.0	1832.2	2072.6	2385.2	2436.7	2503.6	2469.3	2438.4	2237.5	1662.2
67.5°	1808.2	1818.5	1937.0	2222.0	2615.3	2692.5	2750.9	2615.3	2385.2	2026.3	1399.5
70°	1825.4	1852.8	2007.4	2378.3	2852.2	2931.2	2934.7	2565.5	2191.1	1648.5	1014.9
72.5°	1749.8	1768.7	1986.8	2443.5	2987.9	3046.3	2869.4	2319.9	1736.1	1038.9	552.9
75°	1471.6	1524.9	1729.2	2242.6	2738.9	2716.6	2431.5	1770.4	1042.3	460.2	233.5
77.5°	1025.2	1026.9	1239.8	1631.3	2050.3	2045.2	1734.3	1026.9	446.5	185.5	137.4
80°	455.1	487.7	616.5	879.2	1245.0	1245.0	1011.4	510.0	223.2	120.2	94.4
82.5°	267.9	278.2	329.7	410.4	606.2	638.8	484.2	340.0	152.8	75.6	58.4
85°	197.5	214.6	245.6	247.3	286.8	291.9	267.9	295.4	104.7	41.2	48.1
87.5°	147.7	158.0	195.8	163.1	152.8	144.2	164.8	302.2	39.5	20.6	15.5
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°	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2	800.2
2.5°	791.6	791.6	788.2	781.3	781.3	767.6	771.0	774.4	765.9	765.9	767.6
5°	779.6	772.7	764.1	753.8	747.0	728.1	724.6	712.6	710.9	707.5	702.3
7.5°	755.6	745.3	729.8	714.3	692.0	674.9	654.2	637.1	630.2	625.1	623.3
10°	733.2	731.5	705.8	674.9	640.5	607.9	577.0	554.6	540.9	532.3	530.6
12.5°	733.2	719.5	683.4	640.5	590.7	542.6	503.1	472.2	453.3	439.6	434.4
15°	729.8	716.1	668.0	602.7	546.1	480.8	425.9	393.2	365.8	352.0	353.7
17.5°	733.2	712.6	645.7	575.3	496.3	425.9	360.6	321.1	293.6	283.3	281.6
20°	735.0	709.2	628.5	537.5	444.7	365.8	303.9	266.2	245.6	238.7	238.7
22.5°	731.5	698.9	602.7	492.8	400.1	316.0	264.4	231.8	218.1	209.5	212.9
25°	747.0	697.2	578.7	455.1	348.6	274.7	235.3	211.2	202.6	197.5	199.2
27.5°	750.4	697.2	559.8	412.1	303.9	243.8	212.9	197.5	190.6	187.2	185.5
30°	764.1	700.6	537.5	369.2	267.9	219.8	195.8	187.2	182.0	180.3	180.3
32.5°	801.9	710.9	513.4	333.1	237.0	199.2	183.7	176.9	173.4	171.7	173.4
35°	846.6	738.4	487.7	295.4	214.6	185.5	173.4	168.3	166.6	166.6	166.6
37.5°	915.3	779.6	465.4	264.4	195.8	171.7	163.1	161.4	159.7	161.4	161.4
40°	994.2	824.2	444.7	240.4	182.0	163.1	154.5	154.5	152.8	154.5	156.3
42.5°	1085.3	879.2	424.1	216.4	170.0	156.3	149.4	147.7	146.0	149.4	151.1
45°	1210.6	954.8	410.4	202.6	161.4	149.4	142.5	142.5	140.8	140.8	144.2
47.5°	1315.4	1026.9	410.4	188.9	156.3	144.2	137.4	137.4	133.9	135.7	135.7
50°	1402.9	1088.7	419.0	185.5	149.4	139.1	133.9	130.5	128.8	128.8	128.8
52.5°	1461.3	1126.5	425.9	182.0	146.0	132.2	128.8	127.1	123.6	121.9	123.6
55°	1519.7	1152.2	427.6	182.0	140.8	125.4	121.9	121.9	118.5	116.8	116.8
57.5°	1542.0	1141.9	403.5	178.6	137.4	120.2	116.8	115.1	113.3	111.6	111.6
60°	1531.7	1104.1	350.3	170.0	133.9	116.8	109.9	109.9	109.9	106.5	108.2
62.5°	1461.3	975.4	281.6	156.3	128.8	109.9	103.0	106.5	106.5	104.7	104.7
65°	1275.9	805.4	228.4	144.2	121.9	104.7	97.9	103.0	104.7	103.0	101.3
67.5°	1020.0	619.9	188.9	130.5	113.3	96.2	91.0	96.2	97.9	96.2	96.2
70°	700.6	400.1	152.8	116.8	101.3	87.6	82.4	85.9	85.9	87.6	87.6
72.5°	362.3	216.4	125.4	99.6	87.6	79.0	73.8	73.8	72.1	72.1	72.1
75°	180.3	147.7	104.7	84.1	73.8	67.0	63.5	60.1	60.1	60.1	60.1
77.5°	125.4	113.3	85.9	67.0	60.1	54.9	54.9	49.8	49.8	49.8	49.8
80°	94.4	89.3	65.3	51.5	46.4	42.9	42.9	41.2	41.2	39.5	39.5
82.5°	67.0	72.1	49.8	37.8	34.3	32.6	32.6	30.9	30.9	27.5	27.5
85°	53.2	60.1	37.8	27.5	25.8	22.3	22.3	20.6	20.6	18.9	17.2
87.5°	15.5	32.6	15.5	10.3	10.3	10.3	10.3	8.6	8.6	6.9	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

(END OF REPORT)