

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: P675759

Luminaire Tested: **CCW-SA-2A-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675759
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

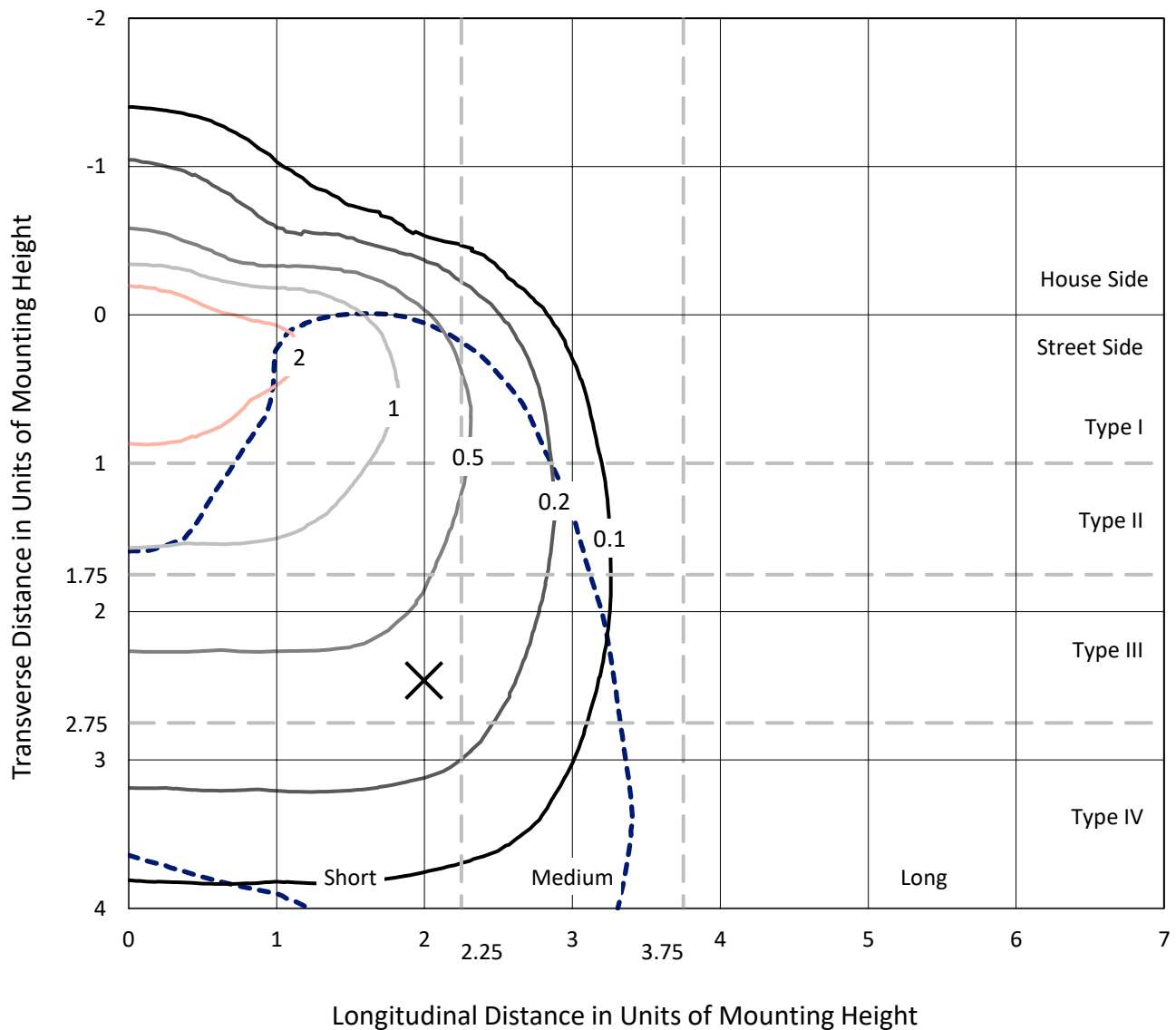
Lumens per Lamp: N/A
Luminaire Lumens: 4418.1 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

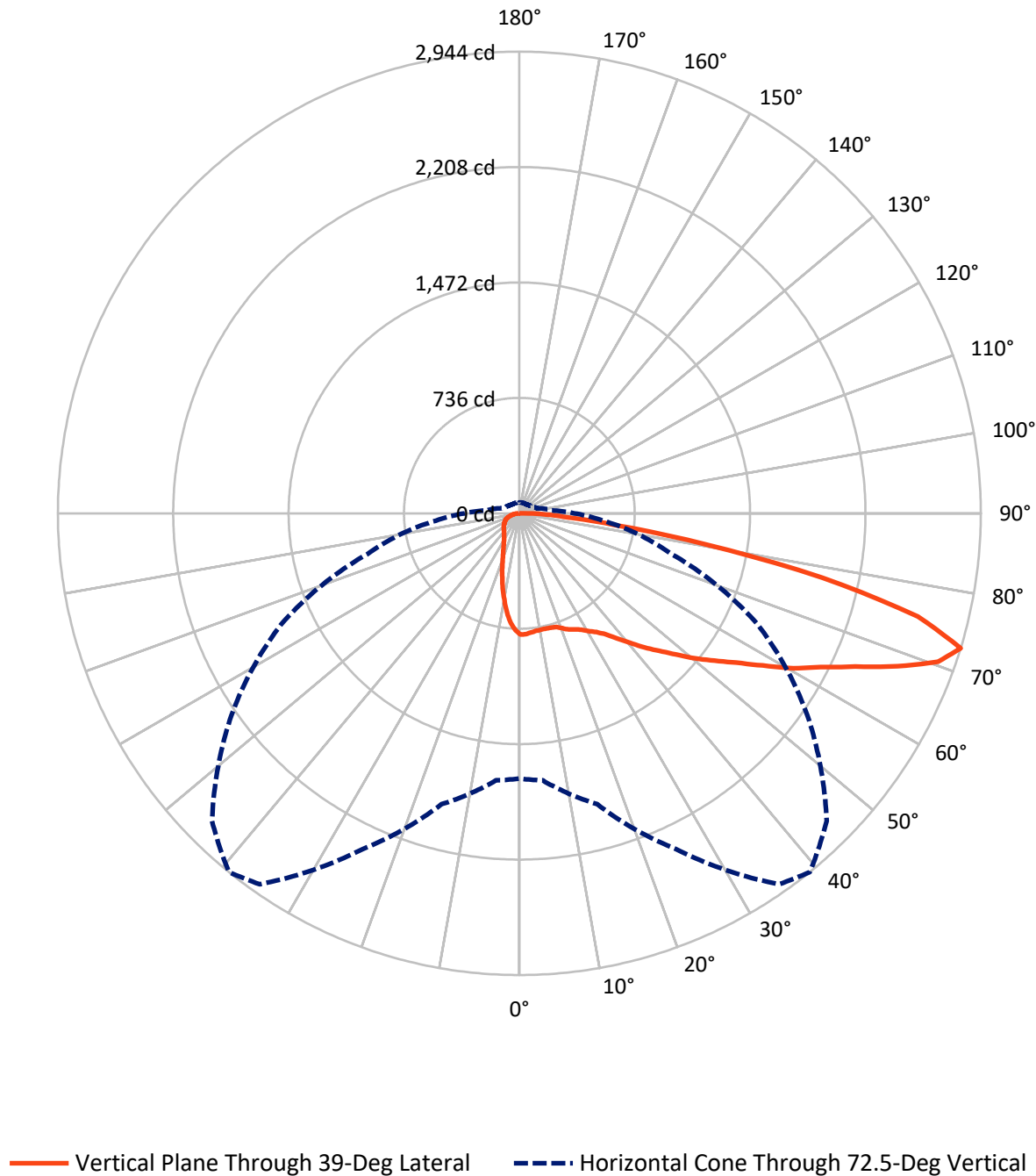
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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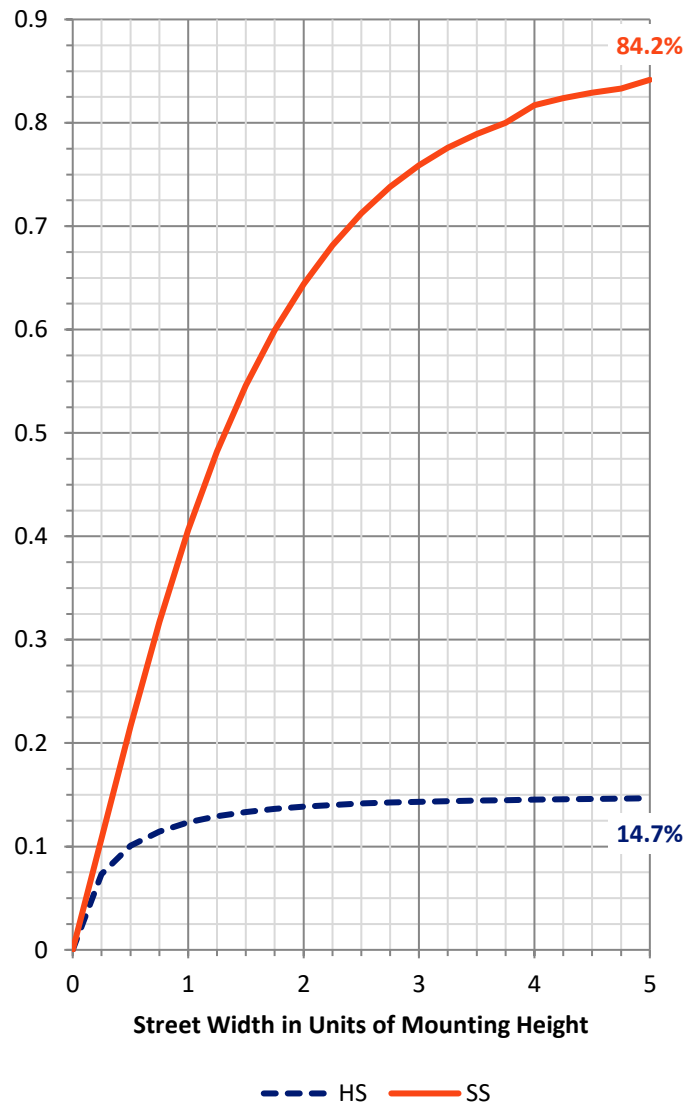
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.6	0.0	656.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3761.5	0.0	3761.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	4418.1	0.0	4418.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.5
10°-20°	174.4	3.9
20°-30°	265.7	6.0
30°-40°	388.7	8.8
40°-50°	595.1	13.5
50°-60°	872.8	19.8
60°-70°	1113.1	25.2
70°-80°	804.2	18.2
80°-90°	135.7	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°	4418.1	100.0
0°-180°	4418.1	100.0



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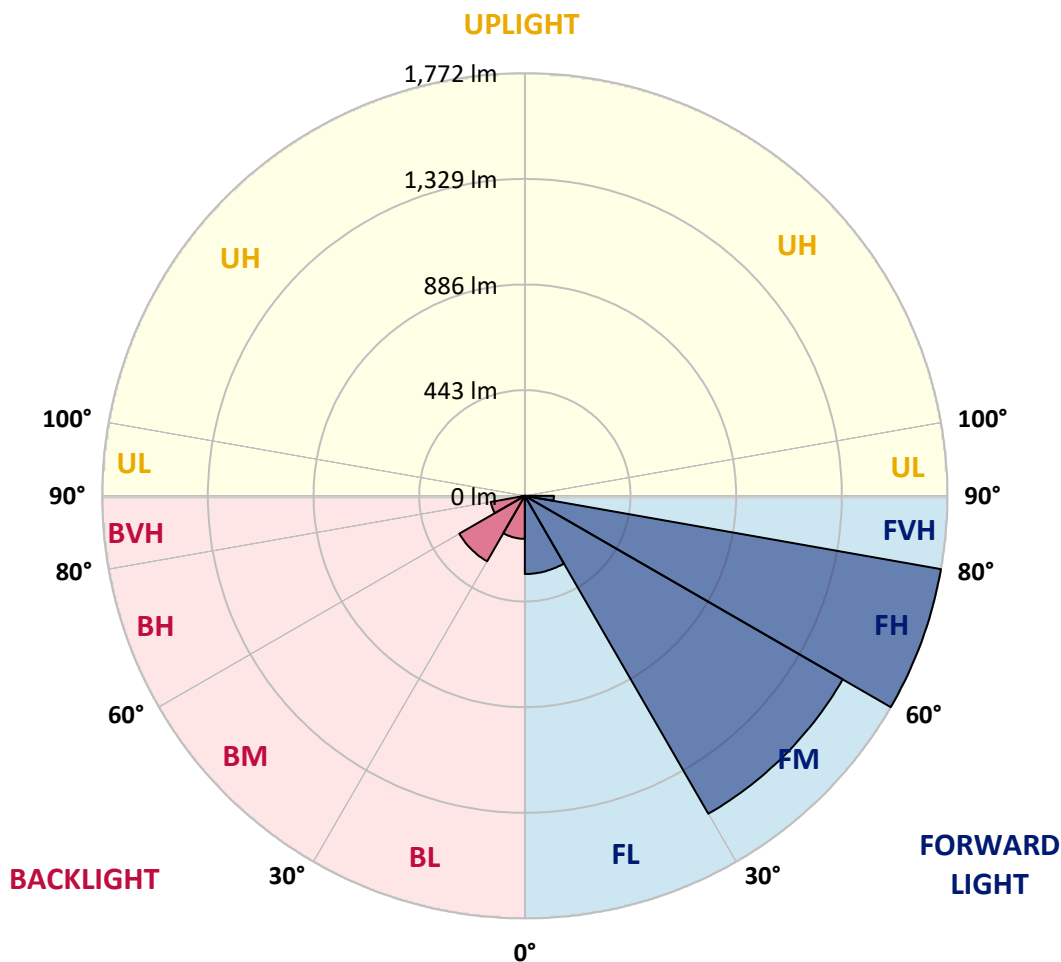
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.9	7.4			
FM	(30°-60°)	1539.4	34.8			
FH	(60°-80°)	1772.3	40.1			G1/1800
FVH	(80°-90°)	121.9	2.8			G2/225
BL	(0°-30°)	180.6	4.1	B1/500		
BM	(30°-60°)	317.2	7.2	B1/1000		
BH	(60°-80°)	145.1	3.3	B1/500		G1/500
BVH	(80°-90°)	13.7	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°	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4
2.5°	785.0	786.6	783.3	780.0	778.3	771.7	778.3	775.0	771.7	771.7	771.7
5°	775.0	776.7	776.7	773.4	775.0	763.4	761.7	763.4	758.4	755.1	753.4
7.5°	760.1	763.4	770.0	768.4	761.7	756.8	758.4	756.8	748.5	743.5	730.2
10°	748.5	751.8	755.1	758.4	756.8	755.1	753.4	746.8	745.1	733.5	720.3
12.5°	736.9	736.9	738.5	751.8	753.4	753.4	743.5	743.5	738.5	736.9	716.9
15°	725.2	730.2	743.5	746.8	753.4	756.8	751.8	751.8	743.5	731.9	716.9
17.5°	728.6	736.9	750.1	758.4	761.7	761.7	768.4	763.4	751.8	745.1	730.2
20°	745.1	746.8	763.4	778.3	781.7	781.7	775.0	770.0	761.7	750.1	730.2
22.5°	755.1	766.7	786.6	794.9	804.9	804.9	796.6	785.0	773.4	761.7	740.2
25°	798.3	799.9	808.2	821.5	826.5	819.8	811.5	798.3	783.3	771.7	751.8
27.5°	828.1	836.4	846.4	853.0	844.7	839.7	833.1	818.2	806.6	796.6	768.4
30°	882.9	872.9	879.6	882.9	868.0	871.3	853.0	839.7	826.5	826.5	794.9
32.5°	916.1	924.4	917.7	916.1	904.5	902.8	891.2	876.3	868.0	877.9	834.8
35°	974.2	969.2	969.2	967.5	954.3	946.0	946.0	919.4	927.7	949.3	896.2
37.5°	1004.0	1002.4	1012.3	1020.6	1007.4	1012.3	1007.4	995.7	999.1	1037.2	972.5
40°	1033.9	1045.5	1065.4	1068.8	1077.1	1083.7	1080.4	1078.7	1092.0	1153.4	1075.4
42.5°	1062.1	1072.1	1102.0	1128.5	1148.4	1170.0	1171.7	1171.7	1214.8	1302.8	1199.9
45°	1098.6	1106.9	1148.4	1201.5	1234.7	1249.7	1262.9	1277.9	1336.0	1440.5	1332.6
47.5°	1148.4	1155.1	1204.9	1271.2	1336.0	1344.3	1370.8	1387.4	1475.4	1581.6	1468.7
50°	1219.8	1214.8	1254.6	1350.9	1414.0	1453.8	1492.0	1521.8	1608.1	1724.3	1574.9
52.5°	1277.9	1277.9	1307.7	1435.5	1521.8	1560.0	1599.8	1641.3	1740.9	1867.0	1661.2
55°	1377.4	1367.5	1385.7	1518.5	1643.0	1679.5	1755.8	1790.7	1886.9	1973.2	1734.3
57.5°	1445.5	1450.5	1472.0	1628.0	1785.7	1830.5	1906.9	1931.7	2016.4	2084.4	1787.4
60°	1535.1	1518.5	1565.0	1749.2	1943.4	2006.4	2069.5	2084.4	2147.5	2155.8	1812.3
62.5°	1621.4	1618.1	1657.9	1870.3	2112.6	2157.4	2222.2	2238.8	2265.3	2212.2	1777.4
65°	1674.5	1696.1	1770.8	2003.1	2305.1	2354.9	2419.7	2386.5	2356.6	2162.4	1606.5
67.5°	1747.5	1757.5	1872.0	2147.5	2527.5	2602.2	2658.6	2527.5	2305.1	1958.3	1352.6
70°	1764.1	1790.7	1940.0	2298.5	2756.6	2832.9	2836.2	2479.4	2117.6	1593.2	980.8
72.5°	1691.1	1709.4	1920.1	2361.6	2887.7	2944.1	2773.1	2242.1	1677.8	1004.0	534.4
75°	1422.3	1473.7	1671.2	2167.4	2647.0	2625.4	2350.0	1711.0	1007.4	444.8	225.7
77.5°	990.8	992.4	1198.2	1576.6	1981.5	1976.6	1676.2	992.4	431.5	179.2	132.8
80°	439.8	471.3	595.8	849.7	1203.2	1203.2	977.5	492.9	215.7	116.2	91.3
82.5°	258.9	268.9	318.6	396.6	585.8	617.4	468.0	328.6	147.7	73.0	56.4
85°	190.9	207.4	237.3	239.0	277.1	282.1	258.9	285.4	101.2	39.8	46.5
87.5°	142.7	152.7	189.2	157.7	147.7	139.4	159.3	292.1	38.2	19.9	14.9
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°	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4	773.4
2.5°	765.1	765.1	761.7	755.1	755.1	741.8	745.1	748.5	740.2	740.2	741.8
5°	753.4	746.8	738.5	728.6	721.9	703.7	700.3	688.7	687.1	683.7	678.8
7.5°	730.2	720.3	705.3	690.4	668.8	652.2	632.3	615.7	609.1	604.1	602.4
10°	708.6	707.0	682.1	652.2	619.0	587.5	557.6	536.0	522.8	514.5	512.8
12.5°	708.6	695.4	660.5	619.0	570.9	524.4	486.3	456.4	438.1	424.9	419.9
15°	705.3	692.0	645.6	582.5	527.7	464.7	411.6	380.0	353.5	340.2	341.9
17.5°	708.6	688.7	624.0	556.0	479.6	411.6	348.5	310.3	283.8	273.8	272.2
20°	710.3	685.4	607.4	519.4	429.8	353.5	293.7	257.2	237.3	230.7	230.7
22.5°	707.0	675.4	582.5	476.3	386.7	305.4	255.6	224.0	210.8	202.5	205.8
25°	721.9	673.8	559.3	439.8	336.9	265.5	227.4	204.1	195.8	190.9	192.5
27.5°	725.2	673.8	541.0	398.3	293.7	235.7	205.8	190.9	184.2	180.9	179.2
30°	738.5	677.1	519.4	356.8	258.9	212.4	189.2	180.9	175.9	174.3	174.3
32.5°	775.0	687.1	496.2	322.0	229.0	192.5	177.6	170.9	167.6	166.0	167.6
35°	818.2	713.6	471.3	285.4	207.4	179.2	167.6	162.6	161.0	161.0	161.0
37.5°	884.6	753.4	449.7	255.6	189.2	166.0	157.7	156.0	154.3	156.0	156.0
40°	960.9	796.6	429.8	232.3	175.9	157.7	149.4	149.4	147.7	149.4	151.0
42.5°	1048.9	849.7	409.9	209.1	164.3	151.0	144.4	142.7	141.1	144.4	146.0
45°	1170.0	922.7	396.6	195.8	156.0	144.4	137.7	137.7	136.1	136.1	139.4
47.5°	1271.2	992.4	396.6	182.6	151.0	139.4	132.8	132.8	129.4	131.1	131.1
50°	1355.9	1052.2	404.9	179.2	144.4	134.4	129.4	126.1	124.5	124.5	124.5
52.5°	1412.3	1088.7	411.6	175.9	141.1	127.8	124.5	122.8	119.5	117.8	119.5
55°	1468.7	1113.6	413.2	175.9	136.1	121.1	117.8	117.8	114.5	112.9	112.9
57.5°	1490.3	1103.6	390.0	172.6	132.8	116.2	112.9	111.2	109.5	107.9	107.9
60°	1480.3	1067.1	338.6	164.3	129.4	112.9	106.2	106.2	106.2	102.9	104.6
62.5°	1412.3	942.6	272.2	151.0	124.5	106.2	99.6	102.9	102.9	101.2	101.2
65°	1233.1	778.3	220.7	139.4	117.8	101.2	94.6	99.6	101.2	99.6	97.9
67.5°	985.8	599.1	182.6	126.1	109.5	92.9	88.0	92.9	94.6	92.9	92.9
70°	677.1	386.7	147.7	112.9	97.9	84.6	79.7	83.0	83.0	84.6	84.6
72.5°	350.2	209.1	121.1	96.3	84.6	76.3	71.4	71.4	69.7	69.7	69.7
75°	174.3	142.7	101.2	81.3	71.4	64.7	61.4	58.1	58.1	58.1	58.1
77.5°	121.1	109.5	83.0	64.7	58.1	53.1	53.1	48.1	48.1	48.1	48.1
80°	91.3	86.3	63.1	49.8	44.8	41.5	41.5	39.8	39.8	38.2	38.2
82.5°	64.7	69.7	48.1	36.5	33.2	31.5	31.5	29.9	29.9	26.6	26.6
85°	51.4	58.1	36.5	26.6	24.9	21.6	21.6	19.9	19.9	18.3	16.6
87.5°	14.9	31.5	14.9	10.0	10.0	10.0	10.0	8.3	8.3	6.6	6.6
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)