

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: P671571

Luminaire Tested: **CCP-SA-1E-827-U-SL4**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671571
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-827-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ SL4 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4924.9 lumens
Efficiency: N/A
Efficacy: 87.8 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): 56.1
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

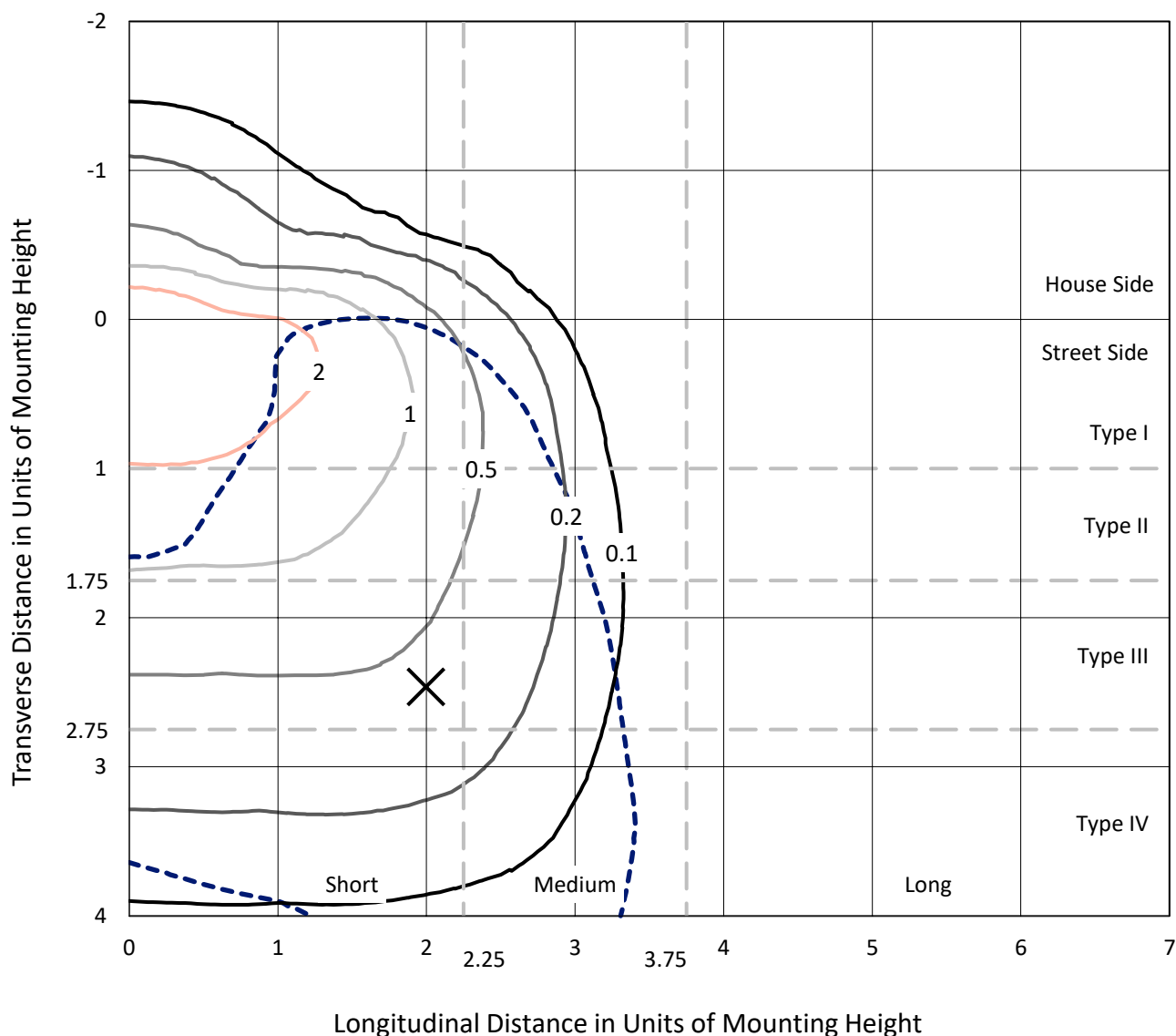
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

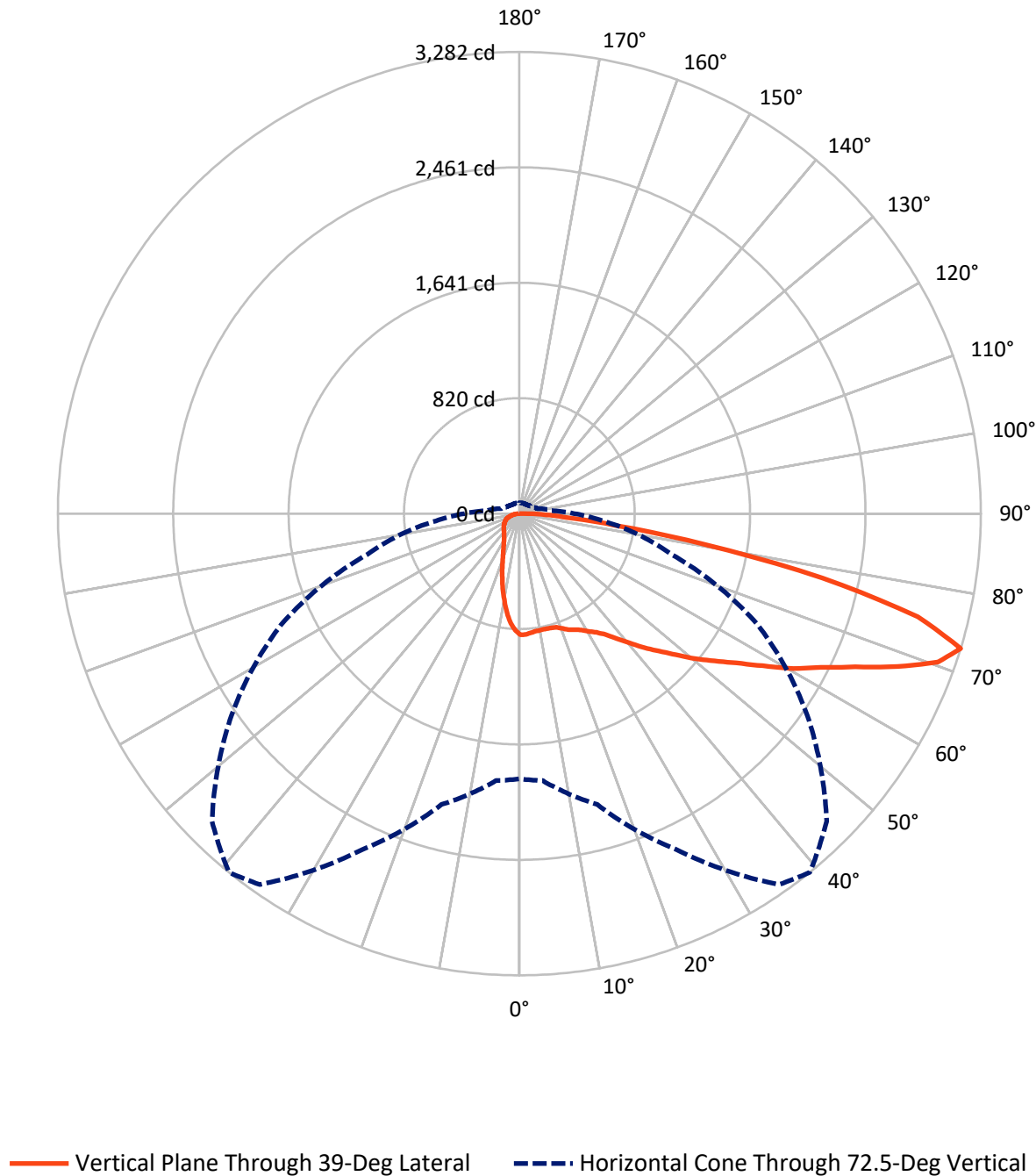


Based on 15 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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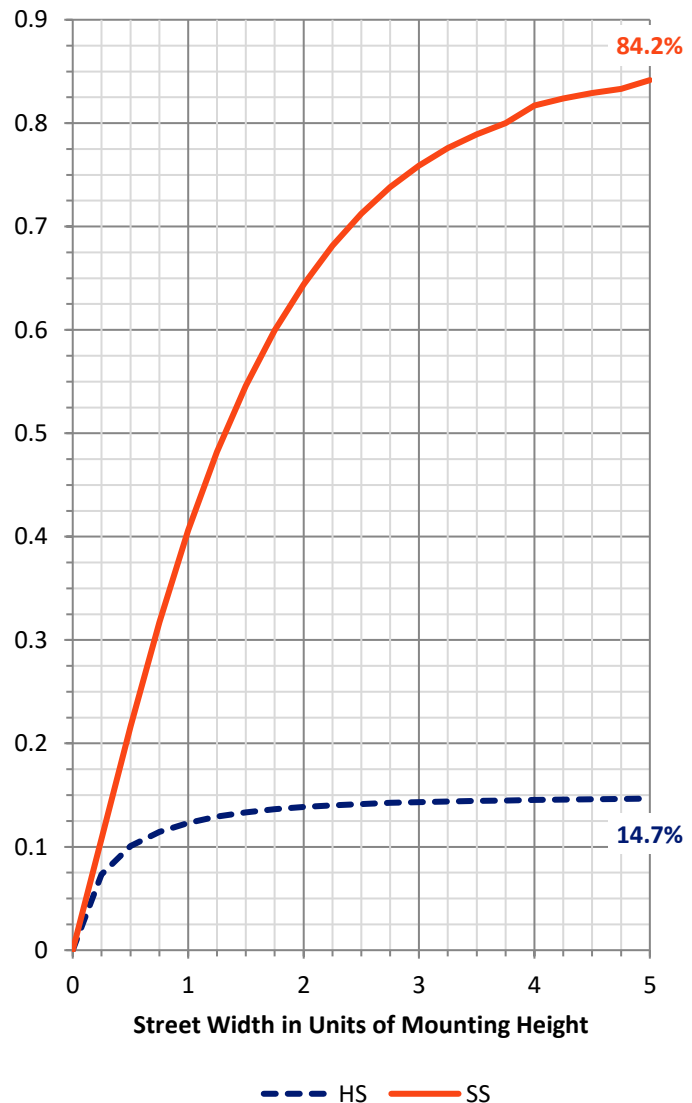
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.9	0.0	731.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4193.0	0.0	4193.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	4924.9	0.0	4924.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.5
10°-20°	194.4	3.9
20°-30°	296.2	6.0
30°-40°	433.3	8.8
40°-50°	663.4	13.5
50°-60°	972.9	19.8
60°-70°	1240.8	25.2
70°-80°	896.5	18.2
80°-90°	151.2	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°	4924.9	100.0
0°-180°	4924.9	100.0

Coefficient of Utilization



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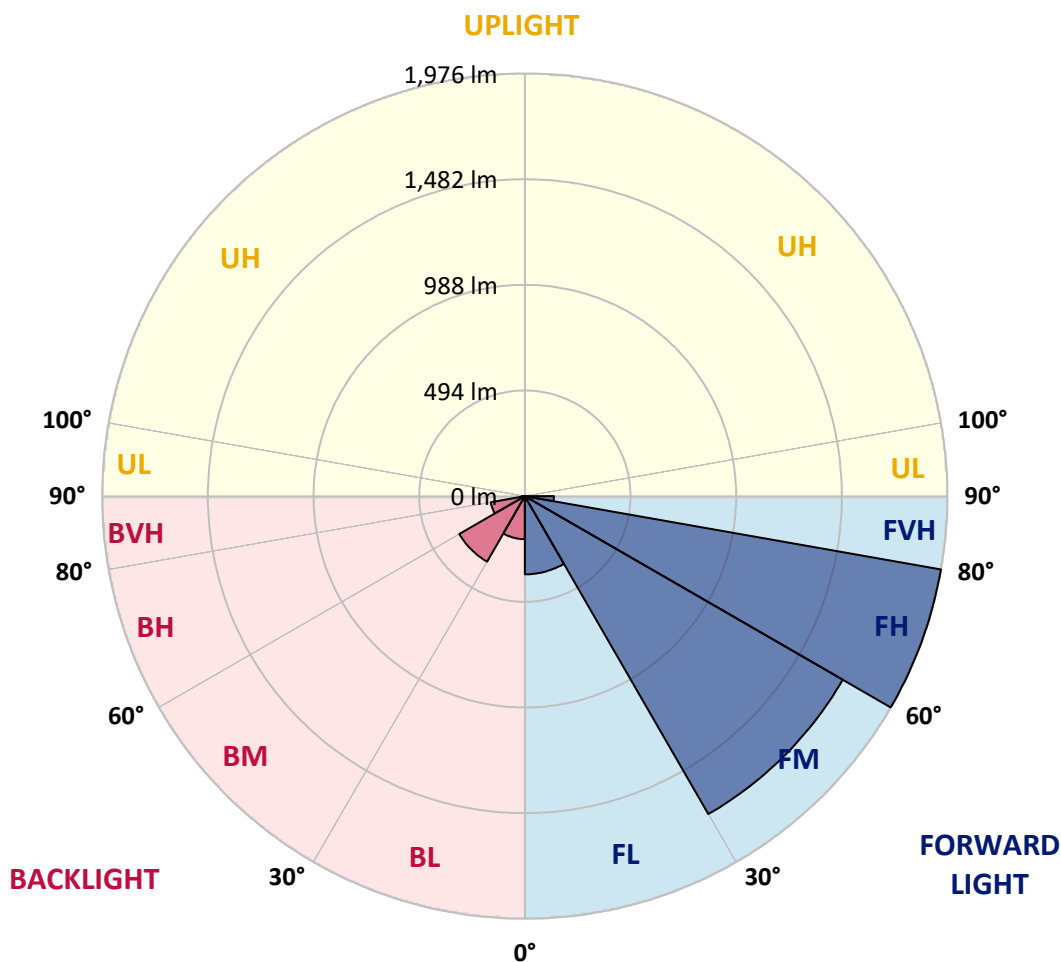
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.5	7.4			
FM	(30°-60°)	1716.0	34.8			
FH	(60°-80°)	1975.6	40.1			G2/5000
FVH	(80°-90°)	135.9	2.8			G2/225
BL	(0°-30°)	201.3	4.1	B1/500		
BM	(30°-60°)	353.6	7.2	B1/1000		
BH	(60°-80°)	161.7	3.3	B1/500		G1/500
BVH	(80°-90°)	15.3	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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	875.0	876.9	873.2	869.5	867.6	860.2	867.6	863.9	860.2	860.2	860.2
5°	863.9	865.8	865.8	862.1	863.9	851.0	849.1	851.0	845.4	841.7	839.9
7.5°	847.3	851.0	858.4	856.5	849.1	843.6	845.4	843.6	834.3	828.8	814.0
10°	834.3	838.0	841.7	845.4	843.6	841.7	839.9	832.5	830.6	817.7	802.9
12.5°	821.4	821.4	823.2	838.0	839.9	839.9	828.8	828.8	823.2	821.4	799.2
15°	808.4	814.0	828.8	832.5	839.9	843.6	838.0	838.0	828.8	815.8	799.2
17.5°	812.1	821.4	836.2	845.4	849.1	849.1	856.5	851.0	838.0	830.6	814.0
20°	830.6	832.5	851.0	867.6	871.3	871.3	863.9	858.4	849.1	836.2	814.0
22.5°	841.7	854.7	876.9	886.1	897.2	897.2	888.0	875.0	862.1	849.1	825.1
25°	889.8	891.7	900.9	915.7	921.3	913.9	904.6	889.8	873.2	860.2	838.0
27.5°	923.1	932.4	943.5	950.9	941.6	936.1	928.7	912.0	899.1	888.0	856.5
30°	984.2	973.1	980.5	984.2	967.5	971.2	950.9	936.1	921.3	921.3	886.1
32.5°	1021.2	1030.4	1023.0	1021.2	1008.2	1006.4	993.4	976.8	967.5	978.6	930.5
35°	1085.9	1080.4	1080.4	1078.5	1063.7	1054.5	1054.5	1024.9	1034.1	1058.2	999.0
37.5°	1119.2	1117.4	1128.5	1137.7	1122.9	1128.5	1122.9	1110.0	1113.7	1156.2	1084.1
40°	1152.5	1165.5	1187.7	1191.4	1200.6	1208.0	1204.3	1202.5	1217.3	1285.7	1198.8
42.5°	1184.0	1195.1	1228.4	1258.0	1280.2	1304.2	1306.1	1306.1	1354.2	1452.2	1337.5
45°	1224.7	1233.9	1280.2	1339.4	1376.4	1393.0	1407.8	1424.5	1489.2	1605.8	1485.5
47.5°	1280.2	1287.6	1343.1	1417.1	1489.2	1498.5	1528.1	1546.6	1644.6	1763.0	1637.2
50°	1359.7	1354.2	1398.6	1505.9	1576.2	1620.6	1663.1	1696.4	1792.6	1922.1	1755.6
52.5°	1424.5	1424.5	1457.8	1600.2	1696.4	1739.0	1783.4	1829.6	1940.6	2081.2	1851.8
55°	1535.5	1524.4	1544.7	1692.7	1831.5	1872.2	1957.3	1996.1	2103.4	2199.6	1933.2
57.5°	1611.3	1616.9	1640.9	1814.8	1990.6	2040.5	2125.6	2153.4	2247.7	2323.6	1992.4
60°	1711.2	1692.7	1744.5	1949.9	2166.3	2236.6	2306.9	2323.6	2393.9	2403.1	2020.2
62.5°	1807.4	1803.7	1848.1	2084.9	2355.0	2405.0	2477.1	2495.6	2525.2	2466.0	1981.3
65°	1866.6	1890.7	1973.9	2232.9	2569.6	2625.1	2697.3	2660.3	2627.0	2410.5	1790.8
67.5°	1948.0	1959.1	2086.8	2393.9	2817.5	2900.8	2963.7	2817.5	2569.6	2183.0	1507.7
70°	1966.5	1996.1	2162.6	2562.2	3072.8	3157.9	3161.6	2763.9	2360.6	1776.0	1093.3
72.5°	1885.1	1905.5	2140.4	2632.5	3219.0	3281.9	3091.3	2499.3	1870.3	1119.2	595.7
75°	1585.4	1642.8	1862.9	2416.1	2950.7	2926.7	2619.6	1907.3	1122.9	495.8	251.6
77.5°	1104.4	1106.3	1335.7	1757.5	2208.9	2203.3	1868.5	1106.3	481.0	199.8	148.0
80°	490.2	525.4	664.1	947.2	1341.2	1341.2	1089.6	549.4	240.5	129.5	101.7
82.5°	288.6	299.7	355.2	442.1	653.0	688.2	521.7	366.3	164.6	81.4	62.9
85°	212.7	231.2	264.5	266.4	308.9	314.5	288.6	318.2	112.8	44.4	51.8
87.5°	159.1	170.2	210.9	175.7	164.6	155.4	177.6	325.6	42.5	22.2	16.6
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°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
2.5°	852.8	852.8	849.1	841.7	841.7	826.9	830.6	834.3	825.1	825.1	826.9
5°	839.9	832.5	823.2	812.1	804.7	784.4	780.7	767.7	765.9	762.2	756.6
7.5°	814.0	802.9	786.2	769.6	745.5	727.0	704.8	686.3	678.9	673.4	671.5
10°	789.9	788.1	760.3	727.0	690.0	654.9	621.6	597.5	582.7	573.5	571.6
12.5°	789.9	775.1	736.3	690.0	636.4	584.6	542.0	508.7	488.4	473.6	468.0
15°	786.2	771.4	719.6	649.3	588.3	518.0	458.8	423.6	394.0	379.2	381.1
17.5°	789.9	767.7	695.6	619.7	534.6	458.8	388.5	345.9	316.3	305.2	303.4
20°	791.8	764.0	677.1	579.0	479.1	394.0	327.4	286.7	264.5	257.1	257.1
22.5°	788.1	752.9	649.3	530.9	431.0	340.4	284.9	249.7	234.9	225.7	229.4
25°	804.7	751.1	623.4	490.2	375.5	296.0	253.4	227.5	218.3	212.7	214.6
27.5°	808.4	751.1	603.1	444.0	327.4	262.7	229.4	212.7	205.3	201.6	199.8
30°	823.2	754.8	579.0	397.7	288.6	236.8	210.9	201.6	196.1	194.2	194.2
32.5°	863.9	765.9	553.1	358.9	255.3	214.6	197.9	190.5	186.8	185.0	186.8
35°	912.0	795.5	525.4	318.2	231.2	199.8	186.8	181.3	179.4	179.4	179.4
37.5°	986.0	839.9	501.3	284.9	210.9	185.0	175.7	173.9	172.0	173.9	173.9
40°	1071.1	888.0	479.1	259.0	196.1	175.7	166.5	166.5	164.6	166.5	168.3
42.5°	1169.2	947.2	456.9	233.1	183.1	168.3	160.9	159.1	157.2	160.9	162.8
45°	1304.2	1028.6	442.1	218.3	173.9	160.9	153.5	153.5	151.7	151.7	155.4
47.5°	1417.1	1106.3	442.1	203.5	168.3	155.4	148.0	148.0	144.3	146.1	146.1
50°	1511.4	1172.9	451.4	199.8	160.9	149.8	144.3	140.6	138.7	138.7	138.7
52.5°	1574.3	1213.6	458.8	196.1	157.2	142.4	138.7	136.9	133.2	131.3	133.2
55°	1637.2	1241.3	460.6	196.1	151.7	135.0	131.3	131.3	127.6	125.8	125.8
57.5°	1661.3	1230.2	434.7	192.4	148.0	129.5	125.8	123.9	122.1	120.2	120.2
60°	1650.2	1189.5	377.4	183.1	144.3	125.8	118.4	118.4	118.4	114.7	116.5
62.5°	1574.3	1050.8	303.4	168.3	138.7	118.4	111.0	114.7	114.7	112.8	112.8
65°	1374.5	867.6	246.0	155.4	131.3	112.8	105.4	111.0	112.8	111.0	109.1
67.5°	1098.9	667.8	203.5	140.6	122.1	103.6	98.0	103.6	105.4	103.6	103.6
70°	754.8	431.0	164.6	125.8	109.1	94.3	88.8	92.5	92.5	94.3	94.3
72.5°	390.3	233.1	135.0	107.3	94.3	85.1	79.5	79.5	77.7	77.7	77.7
75°	194.2	159.1	112.8	90.6	79.5	72.1	68.4	64.7	64.7	64.7	64.7
77.5°	135.0	122.1	92.5	72.1	64.7	59.2	59.2	53.6	53.6	53.6	53.6
80°	101.7	96.2	70.3	55.5	49.9	46.2	46.2	44.4	44.4	42.5	42.5
82.5°	72.1	77.7	53.6	40.7	37.0	35.1	35.1	33.3	33.3	29.6	29.6
85°	57.3	64.7	40.7	29.6	27.7	24.0	24.0	22.2	22.2	20.3	18.5
87.5°	16.6	35.1	16.6	11.1	11.1	11.1	11.1	9.2	9.2	7.4	7.4
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)