

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: P675682

Luminaire Tested: **CCW-SA-2A-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675682
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

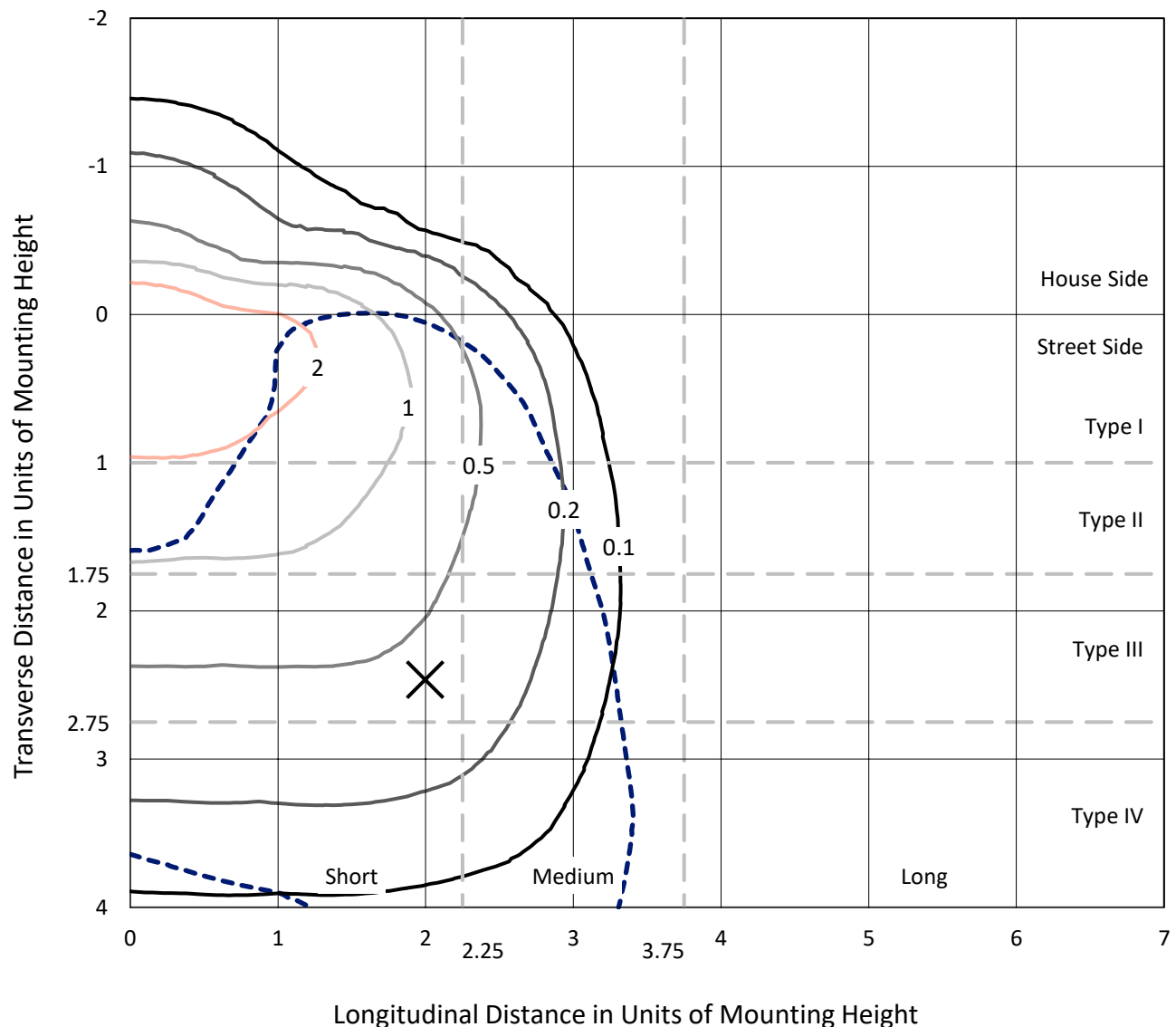
Lumens per Lamp: N/A
Luminaire Lumens: 4882.4 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

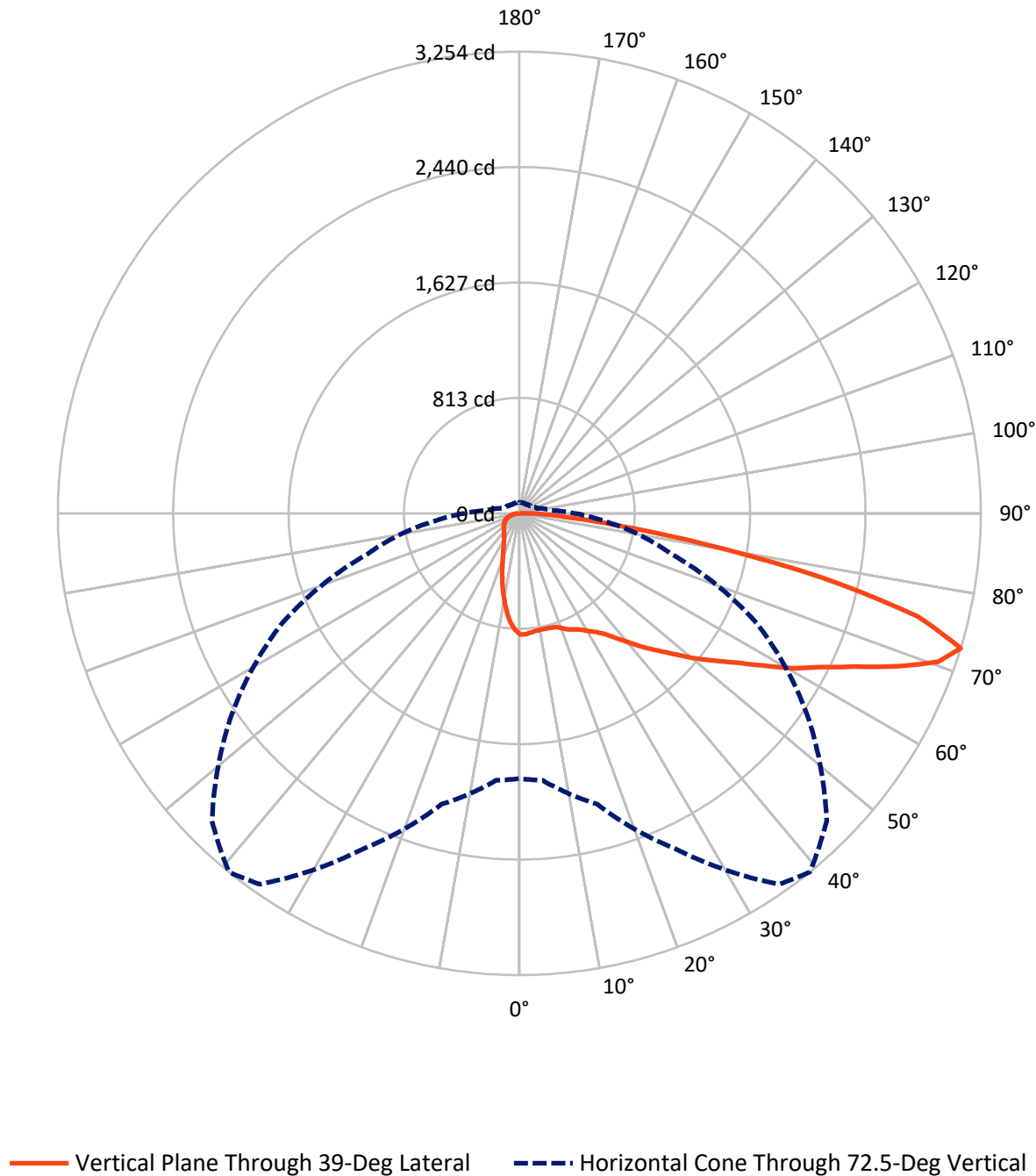
× Max cd
 - - - 1/2 Max cd



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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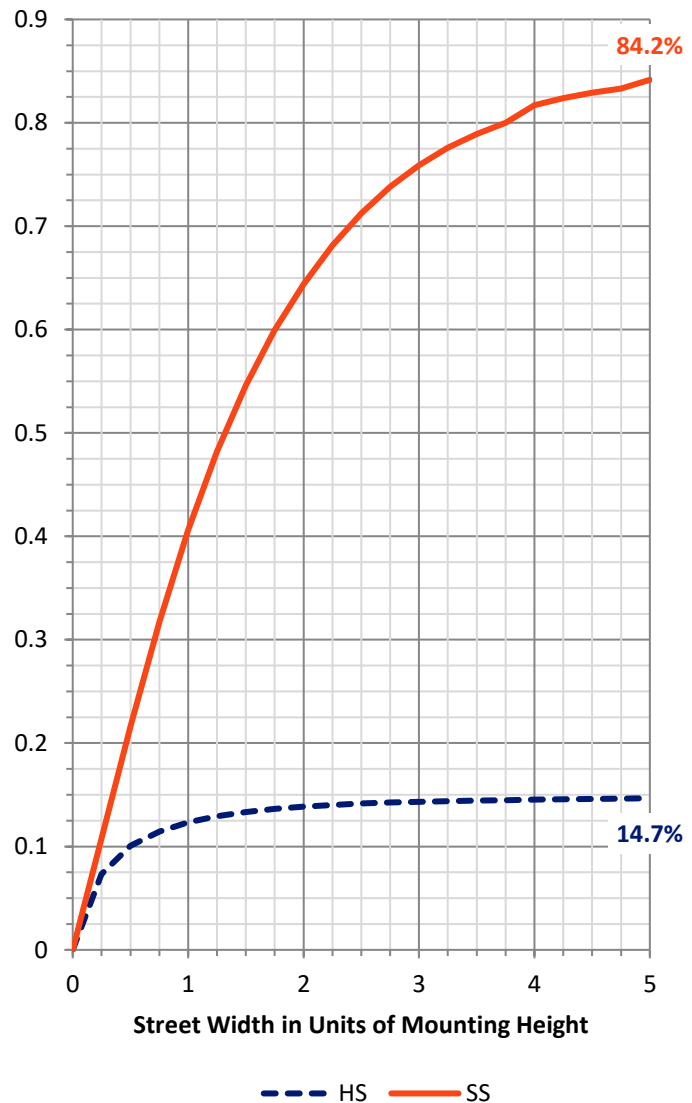
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	725.6	0.0	725.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4156.8	0.0	4156.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	4882.4	0.0	4882.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.5
10°-20°	192.7	3.9
20°-30°	293.6	6.0
30°-40°	429.5	8.8
40°-50°	657.6	13.5
50°-60°	964.5	19.8
60°-70°	1230.1	25.2
70°-80°	888.8	18.2
80°-90°	149.9	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°	4882.4	100.0
0°-180°	4882.4	100.0

Coefficient of Utilization



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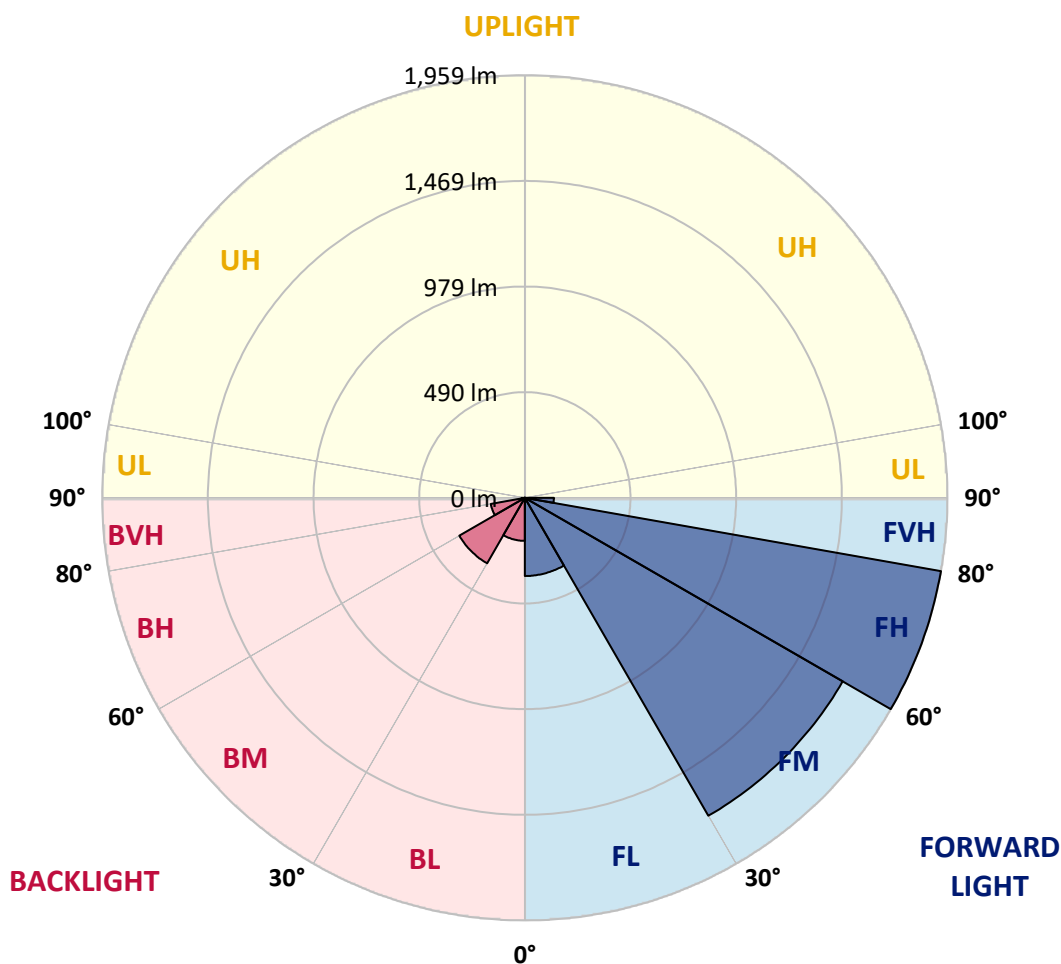
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.3	7.4			
FM	(30°-60°)	1701.2	34.8			
FH	(60°-80°)	1958.5	40.1			G2/5000
FVH	(80°-90°)	134.7	2.8			G2/225
BL	(0°-30°)	199.6	4.1	B1/500		
BM	(30°-60°)	350.5	7.2	B1/1000		
BH	(60°-80°)	160.3	3.3	B1/500		G1/500
BVH	(80°-90°)	15.2	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°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	867.5	869.3	865.6	862.0	860.1	852.8	860.1	856.5	852.8	852.8	852.8
5°	856.5	858.3	858.3	854.6	856.5	843.6	841.8	843.6	838.1	834.5	832.6
7.5°	840.0	843.6	851.0	849.1	841.8	836.3	838.1	836.3	827.1	821.6	807.0
10°	827.1	830.8	834.5	838.1	836.3	834.5	832.6	825.3	823.5	810.6	796.0
12.5°	814.3	814.3	816.1	830.8	832.6	832.6	821.6	821.6	816.1	814.3	792.3
15°	801.5	807.0	821.6	825.3	832.6	836.3	830.8	830.8	821.6	808.8	792.3
17.5°	805.1	814.3	829.0	838.1	841.8	841.8	849.1	843.6	830.8	823.5	807.0
20°	823.5	825.3	843.6	860.1	863.8	863.8	856.5	851.0	841.8	829.0	807.0
22.5°	834.5	847.3	869.3	878.5	889.5	889.5	880.3	867.5	854.6	841.8	818.0
25°	882.1	884.0	893.2	907.8	913.3	906.0	896.8	882.1	865.6	852.8	830.8
27.5°	915.2	924.3	935.3	942.7	933.5	928.0	920.7	904.2	891.3	880.3	849.1
30°	975.7	964.7	972.0	975.7	959.2	962.8	942.7	928.0	913.3	913.3	878.5
32.5°	1012.4	1021.5	1014.2	1012.4	999.5	997.7	984.9	968.3	959.2	970.2	922.5
35°	1076.6	1071.1	1071.1	1069.2	1054.5	1045.4	1045.4	1016.0	1025.2	1049.0	990.4
37.5°	1109.6	1107.7	1118.7	1127.9	1113.2	1118.7	1113.2	1100.4	1104.1	1146.2	1074.7
40°	1142.6	1155.4	1177.4	1181.1	1190.3	1197.6	1193.9	1192.1	1206.8	1274.6	1188.4
42.5°	1173.8	1184.8	1217.8	1247.1	1269.1	1293.0	1294.8	1294.8	1342.5	1439.7	1326.0
45°	1214.1	1223.3	1269.1	1327.8	1364.5	1381.0	1395.7	1412.2	1476.4	1591.9	1472.7
47.5°	1269.1	1276.5	1331.5	1404.8	1476.4	1485.5	1514.9	1533.2	1630.4	1747.8	1623.1
50°	1348.0	1342.5	1386.5	1492.9	1562.6	1606.6	1648.8	1681.8	1777.1	1905.5	1740.5
52.5°	1412.2	1412.2	1445.2	1586.4	1681.8	1724.0	1768.0	1813.8	1923.9	2063.2	1835.8
55°	1522.2	1511.2	1531.4	1678.1	1815.7	1856.0	1940.4	1978.9	2085.2	2180.6	1916.5
57.5°	1597.4	1602.9	1626.8	1799.1	1973.4	2022.9	2107.3	2134.8	2228.3	2303.5	1975.2
60°	1696.4	1678.1	1729.5	1933.0	2147.6	2217.3	2287.0	2303.5	2373.2	2382.4	2002.7
62.5°	1791.8	1788.1	1832.2	2066.9	2334.7	2384.2	2455.7	2474.1	2503.4	2444.7	1964.2
65°	1850.5	1874.3	1956.9	2213.6	2547.4	2602.4	2674.0	2637.3	2604.3	2389.7	1775.3
67.5°	1931.2	1942.2	2068.7	2373.2	2793.2	2875.7	2938.1	2793.2	2547.4	2164.1	1494.7
70°	1949.5	1978.9	2143.9	2540.1	3046.3	3130.6	3134.3	2740.0	2340.2	1760.6	1083.9
72.5°	1868.8	1889.0	2121.9	2609.8	3191.1	3253.5	3064.6	2477.7	1854.2	1109.6	590.5
75°	1571.7	1628.6	1846.8	2395.2	2925.2	2901.4	2596.9	1890.8	1113.2	491.5	249.4
77.5°	1094.9	1096.7	1324.1	1742.3	2189.8	2184.3	1852.3	1096.7	476.8	198.1	146.7
80°	486.0	520.9	658.4	939.0	1329.6	1329.6	1080.2	544.7	238.4	128.4	100.9
82.5°	286.1	297.1	352.1	438.3	647.4	682.2	517.2	363.1	163.2	80.7	62.4
85°	210.9	229.2	262.3	264.1	306.3	311.8	286.1	315.4	111.9	44.0	51.4
87.5°	157.7	168.7	209.1	174.2	163.2	154.1	176.1	322.8	42.2	22.0	16.5
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°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	845.5	845.5	841.8	834.5	834.5	819.8	823.5	827.1	818.0	818.0	819.8
5°	832.6	825.3	816.1	805.1	797.8	777.6	773.9	761.1	759.3	755.6	750.1
7.5°	807.0	796.0	779.4	762.9	739.1	720.8	698.8	680.4	673.1	667.6	665.7
10°	783.1	781.3	753.8	720.8	684.1	649.2	616.2	592.4	577.7	568.5	566.7
12.5°	783.1	768.4	729.9	684.1	630.9	579.5	537.4	504.3	484.2	469.5	464.0
15°	779.4	764.8	713.4	643.7	583.2	513.5	454.8	420.0	390.6	376.0	377.8
17.5°	783.1	761.1	689.6	614.4	530.0	454.8	385.1	343.0	313.6	302.6	300.8
20°	784.9	757.4	671.2	574.0	475.0	390.6	324.6	284.3	262.3	254.9	254.9
22.5°	781.3	746.4	643.7	526.4	427.3	337.5	282.4	247.6	232.9	223.7	227.4
25°	797.8	744.6	618.1	486.0	372.3	293.4	251.3	225.6	216.4	210.9	212.7
27.5°	801.5	744.6	597.9	440.2	324.6	260.4	227.4	210.9	203.6	199.9	198.1
30°	816.1	748.3	574.0	394.3	286.1	234.8	209.1	199.9	194.4	192.6	192.6
32.5°	856.5	759.3	548.4	355.8	253.1	212.7	196.2	188.9	185.2	183.4	185.2
35°	904.2	788.6	520.9	315.4	229.2	198.1	185.2	179.7	177.9	177.9	177.9
37.5°	977.5	832.6	497.0	282.4	209.1	183.4	174.2	172.4	170.6	172.4	172.4
40°	1061.9	880.3	475.0	256.8	194.4	174.2	165.1	165.1	163.2	165.1	166.9
42.5°	1159.1	939.0	453.0	231.1	181.6	166.9	159.6	157.7	155.9	159.6	161.4
45°	1293.0	1019.7	438.3	216.4	172.4	159.6	152.2	152.2	150.4	150.4	154.1
47.5°	1404.8	1096.7	438.3	201.7	166.9	154.1	146.7	146.7	143.1	144.9	144.9
50°	1498.4	1162.8	447.5	198.1	159.6	148.6	143.1	139.4	137.5	137.5	137.5
52.5°	1560.7	1203.1	454.8	194.4	155.9	141.2	137.5	135.7	132.0	130.2	132.0
55°	1623.1	1230.6	456.7	194.4	150.4	133.9	130.2	130.2	126.5	124.7	124.7
57.5°	1646.9	1219.6	431.0	190.7	146.7	128.4	124.7	122.9	121.0	119.2	119.2
60°	1635.9	1179.3	374.1	181.6	143.1	124.7	117.4	117.4	117.4	113.7	115.5
62.5°	1560.7	1041.7	300.8	166.9	137.5	117.4	110.0	113.7	113.7	111.9	111.9
65°	1362.7	860.1	243.9	154.1	130.2	111.9	104.5	110.0	111.9	110.0	108.2
67.5°	1089.4	662.1	201.7	139.4	121.0	102.7	97.2	102.7	104.5	102.7	102.7
70°	748.3	427.3	163.2	124.7	108.2	93.5	88.0	91.7	91.7	93.5	93.5
72.5°	387.0	231.1	133.9	106.4	93.5	84.4	78.9	78.9	77.0	77.0	77.0
75°	192.6	157.7	111.9	89.9	78.9	71.5	67.9	64.2	64.2	64.2	64.2
77.5°	133.9	121.0	91.7	71.5	64.2	58.7	58.7	53.2	53.2	53.2	53.2
80°	100.9	95.4	69.7	55.0	49.5	45.8	45.8	44.0	44.0	42.2	42.2
82.5°	71.5	77.0	53.2	40.3	36.7	34.8	34.8	33.0	33.0	29.3	29.3
85°	56.9	64.2	40.3	29.3	27.5	23.8	23.8	22.0	22.0	20.2	18.3
87.5°	16.5	34.8	16.5	11.0	11.0	11.0	11.0	9.2	9.2	7.3	7.3
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)