

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: P675239

Luminaire Tested: **CCW-SA-2A-727-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675239
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4616.3 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

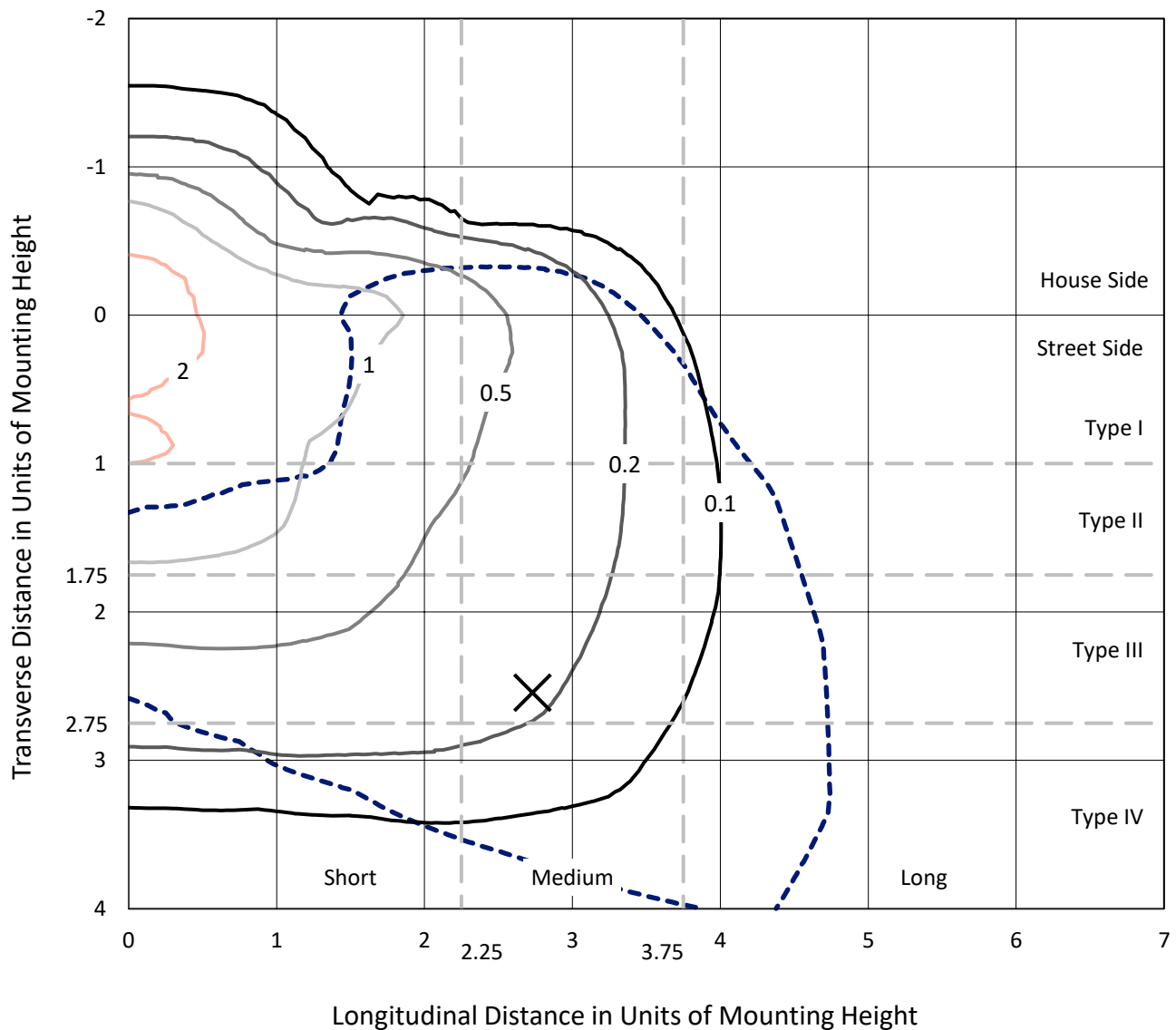
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

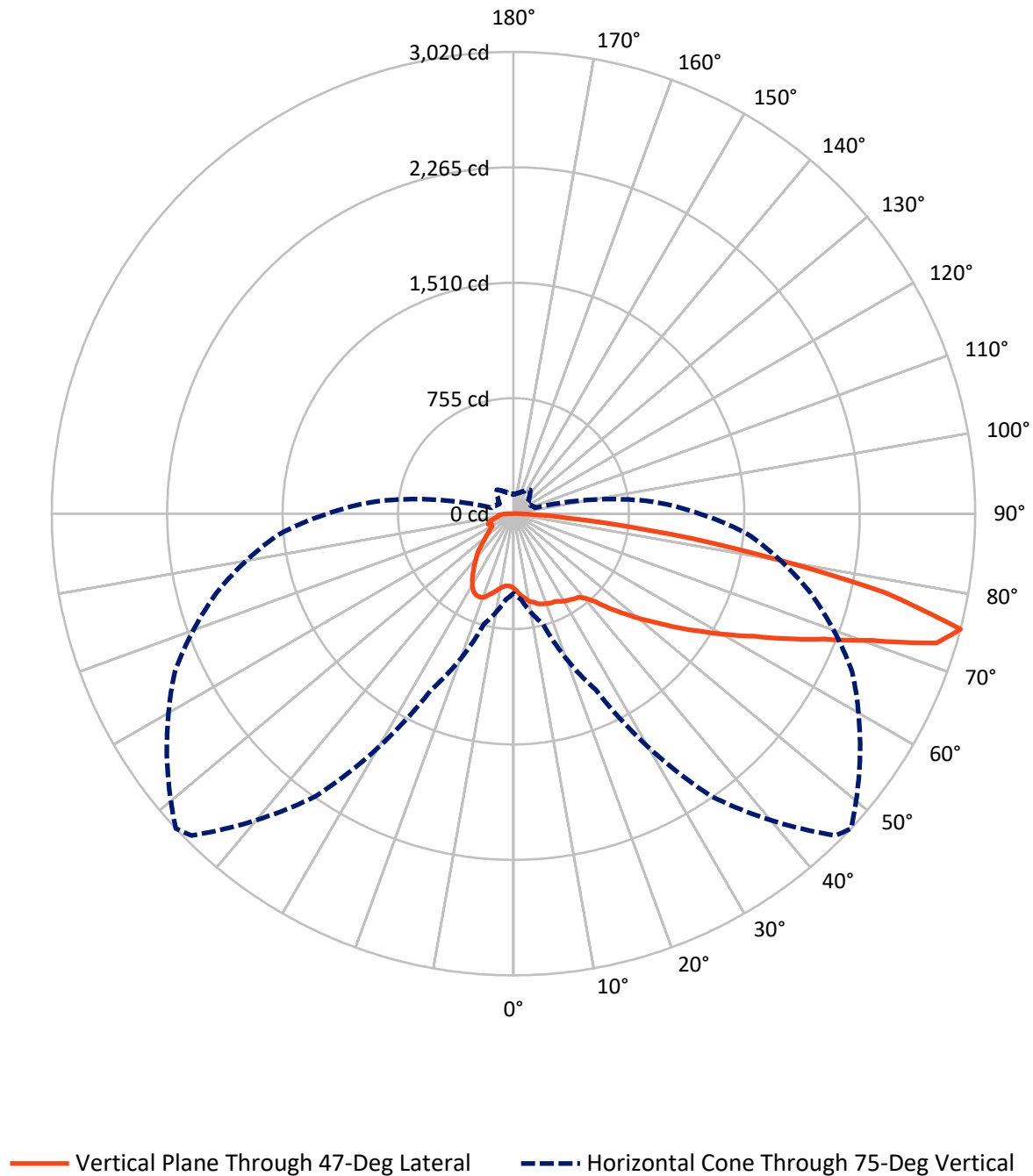
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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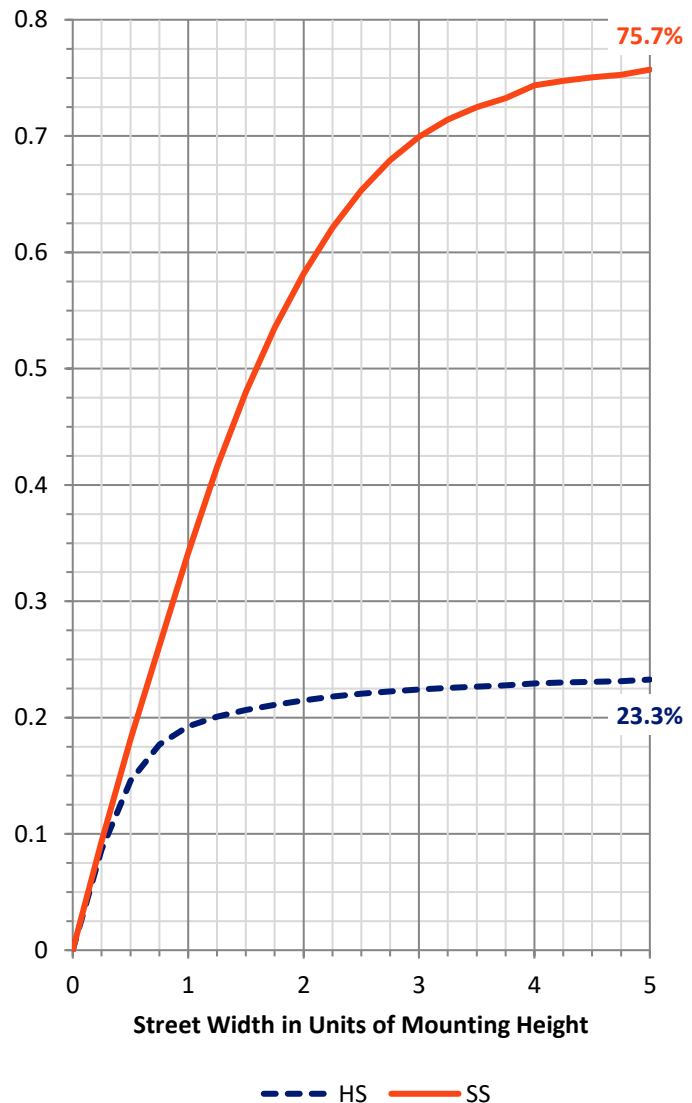
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1104.0	0.0	1104.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3512.3	0.0	3512.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	4616.3	0.0	4616.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.1
10°-20°	164.6	3.6
20°-30°	281.8	6.1
30°-40°	394.4	8.5
40°-50°	549.8	11.9
50°-60°	821.9	17.8
60°-70°	1184.9	25.7
70°-80°	1008.7	21.8
80°-90°	160.7	3.5
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°	4616.3	100.0
0°-180°	4616.3	100.0

Coefficient of Utilization



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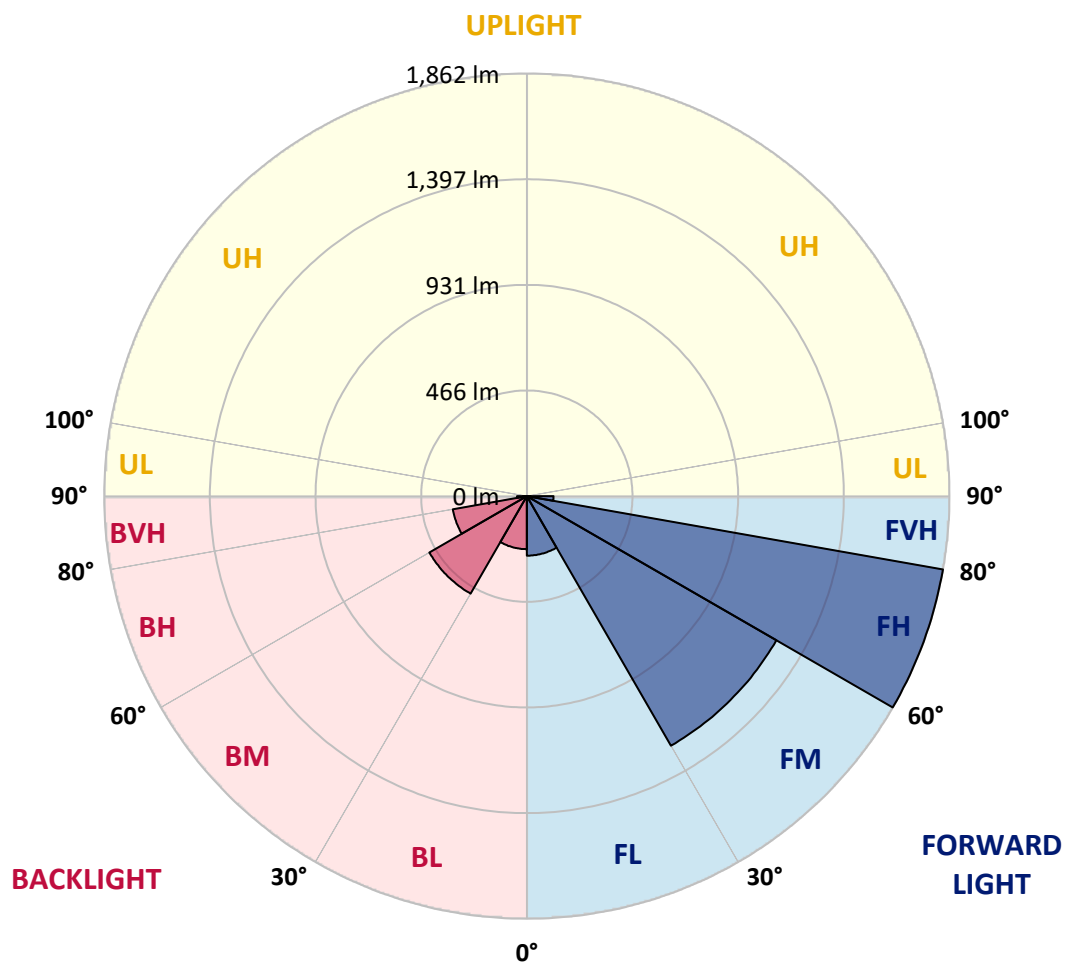
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.3	5.7			
FM	(30°-60°)	1269.9	27.5			
FH	(60°-80°)	1862.4	40.3			G2/5000
FVH	(80°-90°)	117.7	2.6			G2/225
BL	(0°-30°)	233.7	5.1	B1/500		
BM	(30°-60°)	496.2	10.7	B1/1000		
BH	(60°-80°)	331.2	7.2	B1/500		G1/500
BVH	(80°-90°)	42.9	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	525.5	527.2	527.2	523.8	520.5	513.7	513.7	507.0	503.6	495.2	491.8
5°	574.4	569.3	564.3	562.6	554.2	542.4	540.7	533.9	515.4	507.0	495.2
7.5°	609.7	608.1	606.4	599.6	584.5	566.0	560.9	550.8	532.3	515.4	501.9
10°	638.4	645.1	638.4	623.2	608.1	587.8	586.2	567.6	550.8	530.6	513.7
12.5°	670.4	672.1	660.3	641.7	618.2	601.3	594.6	587.8	569.3	552.5	527.2
15°	692.3	688.9	680.5	655.2	628.3	611.4	613.1	604.7	584.5	572.7	545.7
17.5°	692.3	692.3	678.8	660.3	636.7	621.5	621.5	616.5	603.0	586.2	567.6
20°	678.8	678.8	670.4	660.3	633.3	630.0	626.6	623.2	623.2	608.1	581.1
22.5°	662.0	658.6	662.0	645.1	626.6	630.0	635.0	633.3	628.3	614.8	596.3
25°	645.1	646.8	650.2	638.4	621.5	636.7	635.0	643.4	640.1	630.0	614.8
27.5°	643.4	646.8	648.5	636.7	630.0	643.4	650.2	658.6	660.3	650.2	631.6
30°	668.7	667.0	665.3	650.2	645.1	656.9	663.6	675.4	685.5	663.6	648.5
32.5°	734.4	724.3	714.2	673.8	658.6	667.0	673.8	690.6	692.3	680.5	658.6
35°	838.8	832.1	798.4	727.7	685.5	677.1	683.9	695.6	699.0	690.6	673.8
37.5°	958.4	955.0	907.9	822.0	741.1	700.7	694.0	710.8	724.3	705.8	682.2
40°	1076.3	1062.8	1029.2	944.9	811.9	736.1	727.7	736.1	741.1	727.7	712.5
42.5°	1182.4	1167.3	1158.9	1074.6	904.5	795.0	788.3	768.1	783.2	766.4	746.2
45°	1271.7	1268.3	1265.0	1192.5	1010.6	891.0	886.0	833.8	850.6	837.1	808.5
47.5°	1335.7	1350.9	1345.8	1305.4	1131.9	993.8	978.6	911.2	936.5	923.0	894.4
50°	1411.5	1419.9	1414.9	1387.9	1244.8	1111.7	1083.1	1014.0	1042.6	1040.9	1025.8
52.5°	1478.9	1504.1	1475.5	1473.8	1406.5	1239.7	1190.9	1125.2	1172.3	1190.9	1189.2
55°	1558.0	1578.3	1569.8	1566.5	1551.3	1364.3	1320.6	1241.4	1320.6	1347.5	1371.1
57.5°	1625.4	1623.7	1655.7	1694.5	1713.0	1507.5	1455.3	1362.7	1482.3	1512.6	1578.3
60°	1655.7	1684.4	1738.3	1836.0	1888.2	1660.8	1606.9	1532.8	1645.6	1669.2	1790.5
62.5°	1676.0	1701.2	1805.7	1970.7	2001.0	1817.4	1766.9	1692.8	1824.2	1841.0	2021.3
65°	1620.4	1644.0	1851.1	2021.3	2129.1	1985.9	1974.1	1896.6	2002.7	2012.8	2263.8
67.5°	1556.4	1581.6	1812.4	2085.3	2299.2	2209.9	2191.4	2098.7	2179.6	2167.8	2449.1
70°	1443.5	1477.2	1713.0	2140.8	2487.8	2523.2	2486.1	2354.8	2363.2	2252.0	2457.5
72.5°	1099.9	1121.8	1340.8	1920.2	2575.4	2957.8	2893.8	2631.0	2535.0	2268.9	2169.5
75°	522.2	562.6	747.9	1270.0	2257.1	2978.0	3020.1	2767.4	2444.0	2012.8	1537.8
77.5°	151.6	151.6	227.4	539.0	1414.9	2400.2	2479.4	2349.7	2016.2	1490.7	808.5
80°	82.5	87.6	119.6	190.3	621.5	1514.3	1628.8	1558.0	1187.5	589.5	208.9
82.5°	47.2	48.8	79.2	114.5	283.0	823.7	891.0	808.5	451.4	178.5	97.7
85°	27.0	28.6	45.5	75.8	168.4	303.2	330.1	286.3	181.9	119.6	48.8
87.5°	13.5	13.5	21.9	35.4	85.9	85.9	84.2	102.7	109.5	72.4	21.9
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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	490.2	488.5	488.5	481.7	480.0	475.0	475.0	471.6	469.9	475.0	475.0
5°	491.8	483.4	481.7	475.0	476.7	473.3	480.0	476.7	475.0	475.0	473.3
7.5°	495.2	486.8	480.0	475.0	473.3	478.4	486.8	486.8	496.9	491.8	491.8
10°	503.6	498.6	490.2	486.8	486.8	491.8	501.9	508.7	517.1	517.1	512.1
12.5°	523.8	515.4	505.3	500.3	507.0	512.1	522.2	528.9	539.0	542.4	539.0
15°	539.0	530.6	527.2	523.8	528.9	535.6	544.1	550.8	562.6	566.0	564.3
17.5°	559.2	549.1	547.4	549.1	552.5	557.5	562.6	567.6	576.1	576.1	576.1
20°	569.3	566.0	564.3	569.3	576.1	582.8	579.4	576.1	574.4	577.7	576.1
22.5°	587.8	584.5	586.2	591.2	591.2	587.8	582.8	571.0	567.6	571.0	567.6
25°	604.7	601.3	601.3	598.0	596.3	584.5	574.4	564.3	552.5	557.5	555.8
27.5°	621.5	619.9	619.9	606.4	589.5	569.3	555.8	544.1	537.3	545.7	540.7
30°	641.7	643.4	635.0	603.0	562.6	540.7	525.5	523.8	522.2	527.2	525.5
32.5°	660.3	662.0	648.5	598.0	542.4	500.3	485.1	486.8	495.2	503.6	512.1
35°	670.4	678.8	662.0	581.1	501.9	454.8	437.9	453.1	468.3	480.0	488.5
37.5°	688.9	710.8	682.2	562.6	466.6	414.4	402.6	407.6	426.1	444.7	453.1
40°	715.9	741.1	687.2	527.2	419.4	373.9	367.2	368.9	375.6	387.4	395.8
42.5°	763.0	790.0	692.3	481.7	372.2	348.7	330.1	325.1	320.0	320.0	318.3
45°	832.1	857.3	685.5	424.5	325.1	308.2	294.8	283.0	269.5	247.6	251.0
47.5°	933.1	953.4	690.6	373.9	281.3	267.8	257.7	244.2	224.0	200.4	198.8
50°	1086.4	1056.1	683.9	321.7	249.3	237.5	229.1	210.5	187.0	170.1	168.4
52.5°	1265.0	1204.3	677.1	277.9	222.3	212.2	205.5	185.3	163.4	155.0	153.3
55°	1480.6	1393.0	687.2	239.2	202.1	193.7	187.0	168.4	151.6	144.9	143.2
57.5°	1734.9	1596.8	742.8	208.9	180.2	176.9	175.2	160.0	144.9	139.8	138.1
60°	1974.1	1792.2	779.9	187.0	160.0	163.4	166.8	160.0	143.2	139.8	139.8
62.5°	2174.5	1953.9	720.9	168.4	149.9	160.0	175.2	170.1	163.4	166.8	163.4
65°	2351.4	2009.5	539.0	158.3	144.9	168.4	193.7	192.0	176.9	180.2	178.5
67.5°	2381.7	1942.1	352.0	149.9	141.5	185.3	217.3	197.1	166.8	166.8	161.7
70°	2255.4	1761.9	235.8	141.5	139.8	185.3	222.3	185.3	156.6	156.6	149.9
72.5°	1851.1	1408.1	181.9	133.1	128.0	165.1	210.5	175.2	146.5	143.2	131.4
75°	1216.1	907.9	148.2	126.3	111.2	144.9	190.3	161.7	139.8	129.7	124.6
77.5°	596.3	407.6	124.6	111.2	96.0	126.3	173.5	153.3	131.4	121.3	117.9
80°	163.4	146.5	104.4	97.7	80.9	109.5	163.4	146.5	123.0	112.9	107.8
82.5°	92.6	91.0	84.2	79.2	67.4	109.5	165.1	146.5	116.2	114.5	97.7
85°	50.5	53.9	60.6	59.0	52.2	97.7	156.6	128.0	94.3	79.2	79.2
87.5°	20.2	25.3	30.3	33.7	35.4	72.4	117.9	97.7	72.4	60.6	60.6
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)