

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: P675316

Luminaire Tested: **CCW-SA-2A-830-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675316
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4W distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4386.1 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

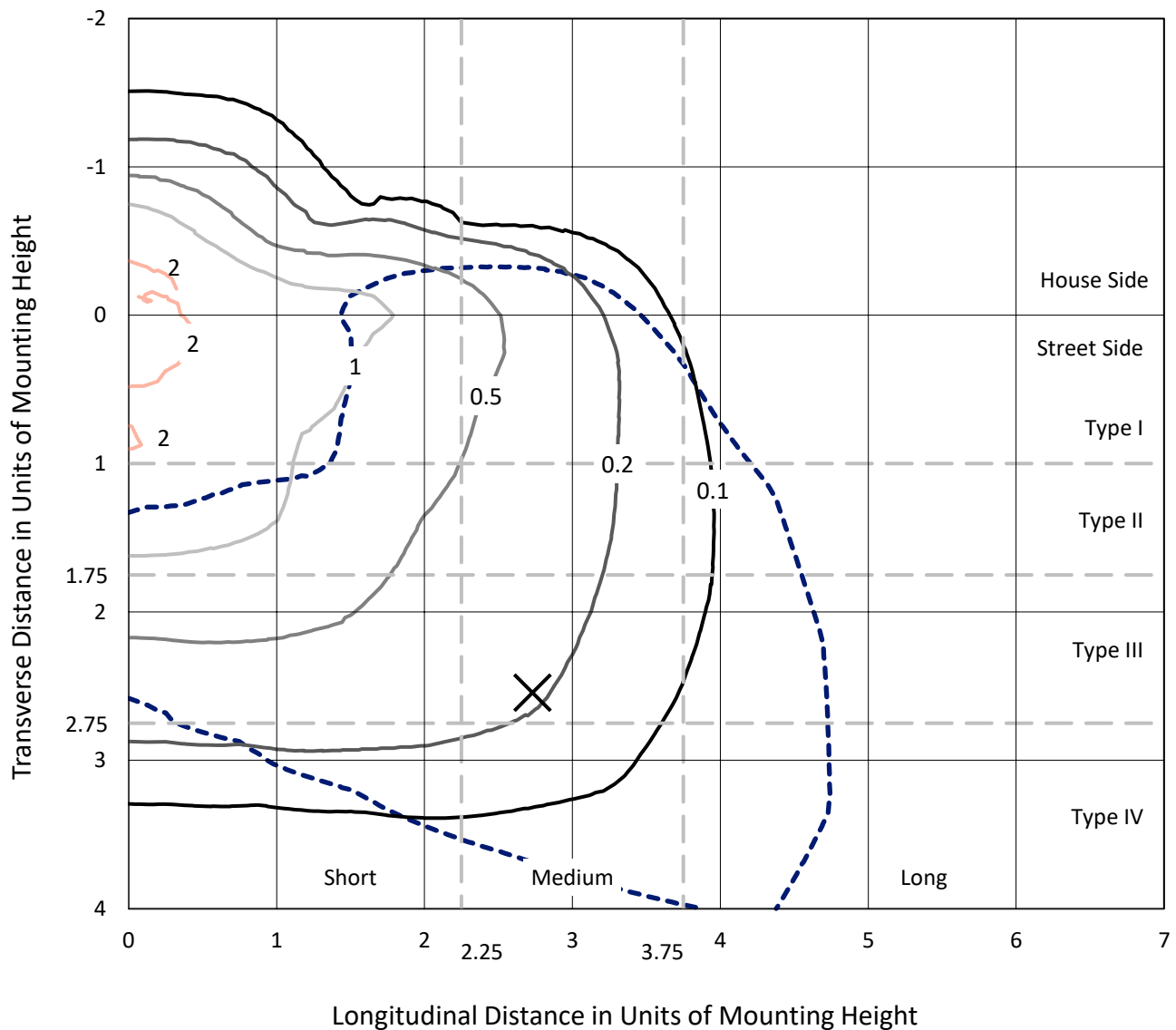
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

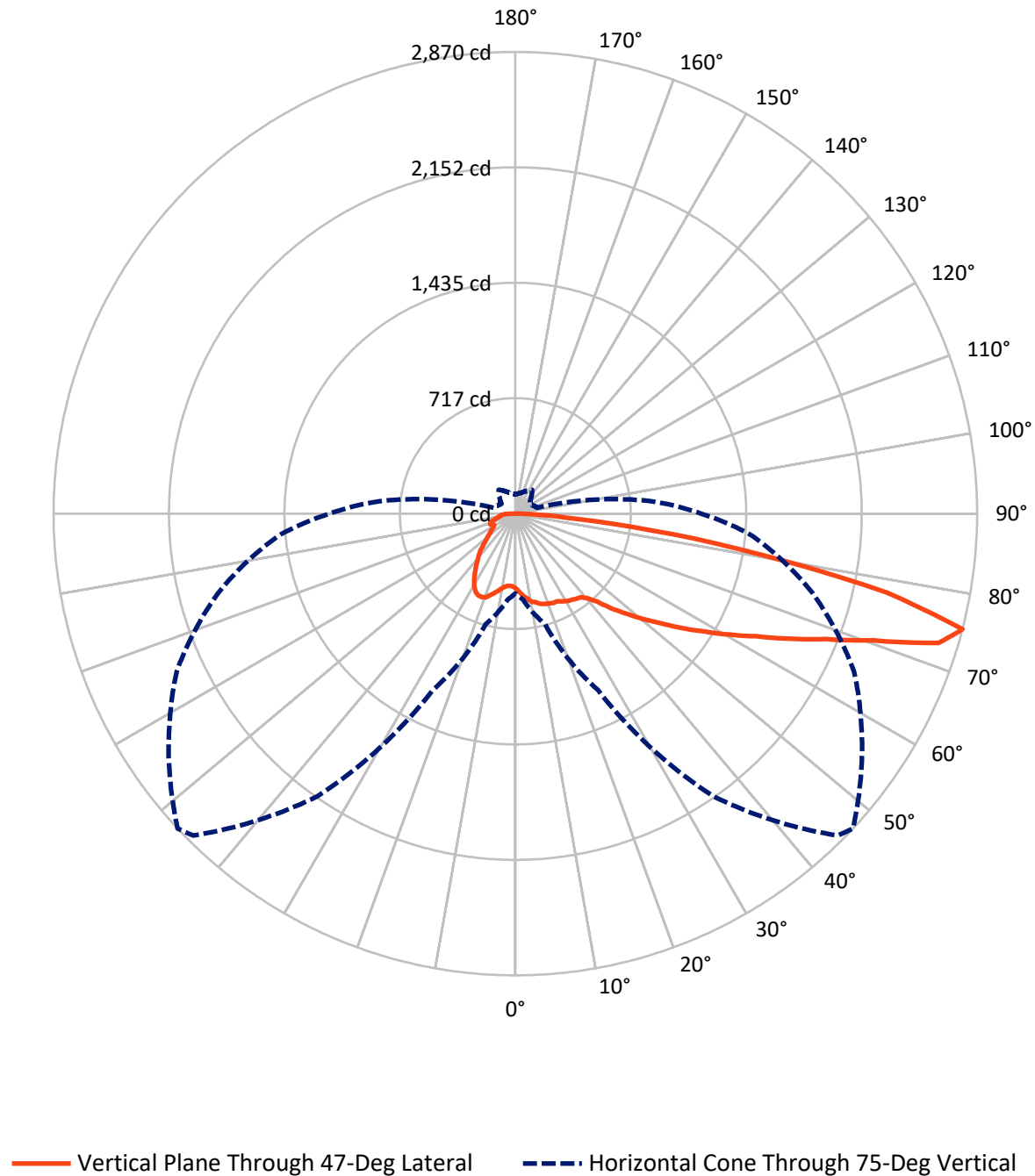
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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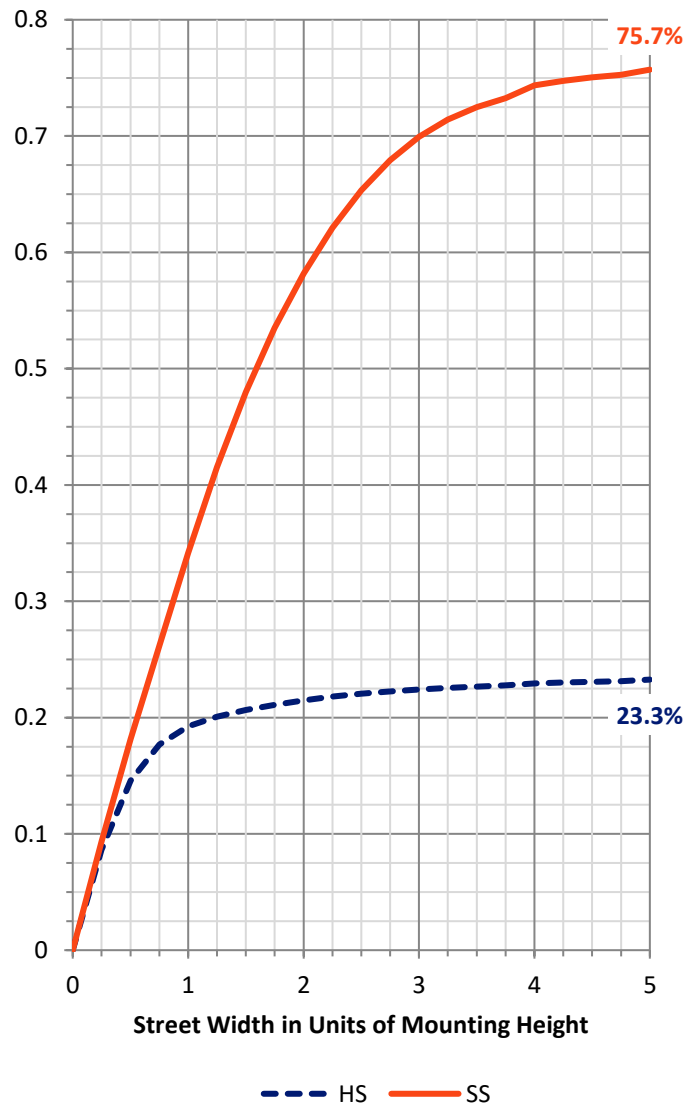
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.9	0.0	1048.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3337.2	0.0	3337.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	4386.1	0.0	4386.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.1
10°-20°	156.3	3.6
20°-30°	267.8	6.1
30°-40°	374.7	8.5
40°-50°	522.4	11.9
50°-60°	780.9	17.8
60°-70°	1125.9	25.7
70°-80°	958.3	21.8
80°-90°	152.6	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°	4386.1	100.0
0°-180°	4386.1	100.0

Coefficient of Utilization



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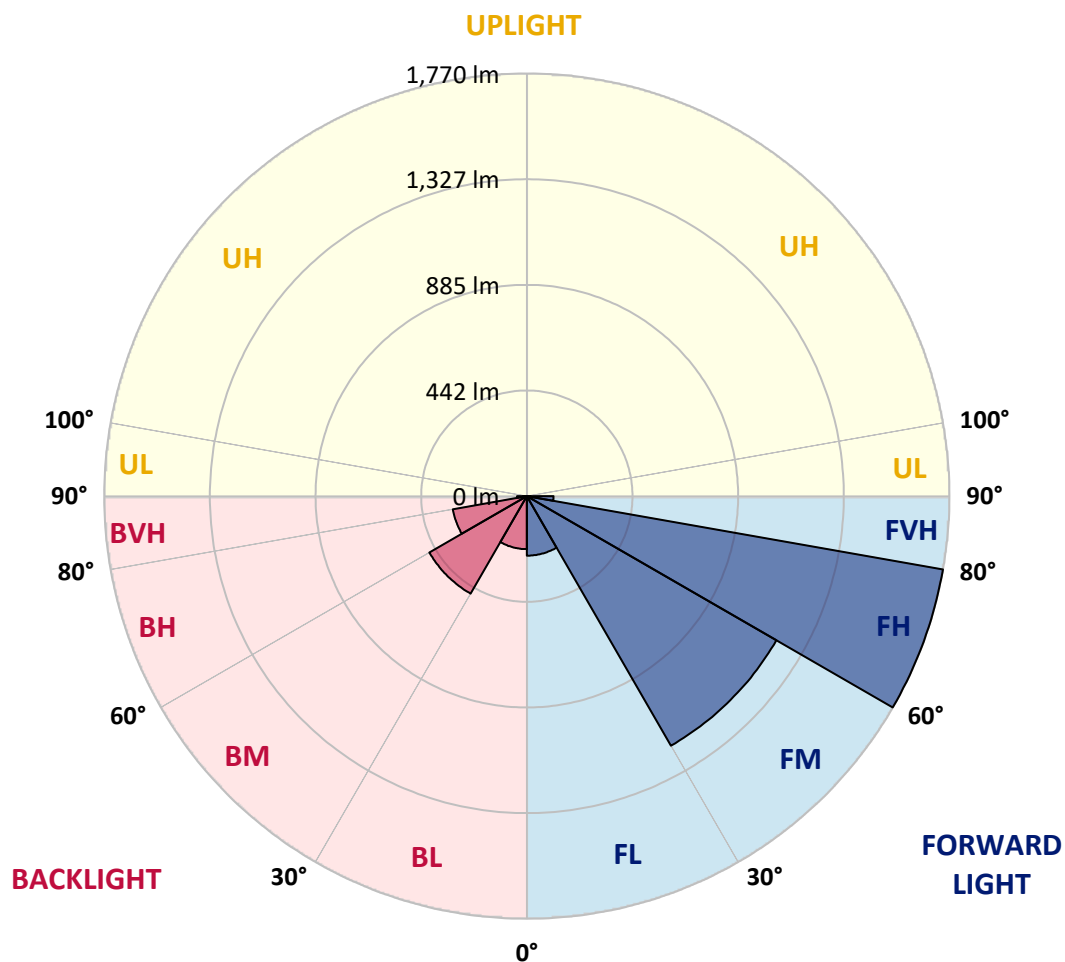
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.2	5.7			
FM	(30°-60°)	1206.6	27.5			
FH	(60°-80°)	1769.5	40.3			G1/1800
FVH	(80°-90°)	111.9	2.6			G2/225
BL	(0°-30°)	222.0	5.1	B1/500		
BM	(30°-60°)	471.4	10.7	B1/1000		
BH	(60°-80°)	314.7	7.2	B1/500		G1/500
BVH	(80°-90°)	40.8	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°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	499.3	500.9	500.9	497.7	494.5	488.1	488.1	481.7	478.5	470.5	467.3
5°	545.7	540.9	536.1	534.5	526.5	515.3	513.7	507.3	489.7	481.7	470.5
7.5°	579.3	577.7	576.1	569.7	555.3	537.7	532.9	523.3	505.7	489.7	476.9
10°	606.5	612.9	606.5	592.1	577.7	558.5	556.9	539.3	523.3	504.1	488.1
12.5°	637.0	638.6	627.4	609.7	587.3	571.3	564.9	558.5	540.9	524.9	500.9
15°	657.8	654.6	646.6	622.6	596.9	580.9	582.5	574.5	555.3	544.1	518.5
17.5°	657.8	657.8	645.0	627.4	604.9	590.5	590.5	585.7	572.9	556.9	539.3
20°	645.0	645.0	637.0	627.4	601.7	598.5	595.3	592.1	592.1	577.7	552.1
22.5°	629.0	625.8	629.0	612.9	595.3	598.5	603.3	601.7	596.9	584.1	566.5
25°	612.9	614.5	617.8	606.5	590.5	604.9	603.3	611.3	608.1	598.5	584.1
27.5°	611.3	614.5	616.1	604.9	598.5	611.3	617.8	625.8	627.4	617.8	600.1
30°	635.4	633.8	632.2	617.8	612.9	624.2	630.6	641.8	651.4	630.6	616.1
32.5°	697.8	688.2	678.6	640.2	625.8	633.8	640.2	656.2	657.8	646.6	625.8
35°	797.0	790.6	758.6	691.4	651.4	643.4	649.8	661.0	664.2	656.2	640.2
37.5°	910.6	907.4	862.6	781.0	704.2	665.8	659.4	675.4	688.2	670.6	648.2
40°	1022.6	1009.8	977.8	897.8	771.4	699.4	691.4	699.4	704.2	691.4	677.0
42.5°	1123.5	1109.1	1101.1	1021.0	859.4	755.4	749.0	729.8	744.2	728.2	709.0
45°	1208.3	1205.1	1201.9	1133.1	960.2	846.6	841.8	792.2	808.2	795.4	768.2
47.5°	1269.1	1283.5	1278.7	1240.3	1075.5	944.2	929.8	865.8	889.8	877.0	849.8
50°	1341.1	1349.1	1344.3	1318.7	1182.7	1056.3	1029.1	963.4	990.6	989.0	974.6
52.5°	1405.1	1429.1	1401.9	1400.3	1336.3	1177.9	1131.5	1069.1	1113.9	1131.5	1129.9
55°	1480.4	1499.6	1491.6	1488.4	1474.0	1296.3	1254.7	1179.5	1254.7	1280.3	1302.7
57.5°	1544.4	1542.8	1573.2	1610.0	1627.6	1432.3	1382.7	1294.7	1408.3	1437.1	1499.6
60°	1573.2	1600.4	1651.6	1744.4	1794.0	1578.0	1526.8	1456.4	1563.6	1586.0	1701.2
62.5°	1592.4	1616.4	1715.6	1872.5	1901.3	1726.8	1678.8	1608.4	1733.2	1749.2	1920.5
65°	1539.6	1562.0	1758.8	1920.5	2022.9	1886.9	1875.7	1802.0	1902.9	1912.5	2150.9
67.5°	1478.8	1502.8	1722.0	1981.3	2184.5	2099.7	2082.1	1994.1	2070.9	2059.7	2327.0
70°	1371.5	1403.5	1627.6	2034.1	2363.8	2397.4	2362.2	2237.3	2245.3	2139.7	2335.0
72.5°	1045.1	1065.9	1273.9	1824.4	2447.0	2810.3	2749.5	2499.8	2408.6	2155.7	2061.3
75°	496.1	534.5	710.6	1206.7	2144.5	2829.5	2869.5	2629.4	2322.2	1912.5	1461.2
77.5°	144.0	144.0	216.1	512.1	1344.3	2280.6	2355.8	2232.5	1915.7	1416.3	768.2
80°	78.4	83.2	113.6	180.8	590.5	1438.7	1547.6	1480.4	1128.3	560.1	198.4
82.5°	44.8	46.4	75.2	108.8	268.9	782.6	846.6	768.2	428.9	169.6	92.8
85°	25.6	27.2	43.2	72.0	160.0	288.1	313.7	272.1	172.8	113.6	46.4
87.5°	12.8	12.8	20.8	33.6	81.6	81.6	80.0	97.6	104.0	68.8	20.8
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°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	465.7	464.1	464.1	457.7	456.1	451.3	451.3	448.1	446.5	451.3	451.3
5°	467.3	459.3	457.7	451.3	452.9	449.7	456.1	452.9	451.3	451.3	449.7
7.5°	470.5	462.5	456.1	451.3	449.7	454.5	462.5	462.5	472.1	467.3	467.3
10°	478.5	473.7	465.7	462.5	462.5	467.3	476.9	483.3	491.3	491.3	486.5
12.5°	497.7	489.7	480.1	475.3	481.7	486.5	496.1	502.5	512.1	515.3	512.1
15°	512.1	504.1	500.9	497.7	502.5	508.9	516.9	523.3	534.5	537.7	536.1
17.5°	531.3	521.7	520.1	521.7	524.9	529.7	534.5	539.3	547.3	547.3	547.3
20°	540.9	537.7	536.1	540.9	547.3	553.7	550.5	547.3	545.7	548.9	547.3
22.5°	558.5	555.3	556.9	561.7	561.7	558.5	553.7	542.5	539.3	542.5	539.3
25°	574.5	571.3	571.3	568.1	566.5	555.3	545.7	536.1	524.9	529.7	528.1
27.5°	590.5	588.9	588.9	576.1	560.1	540.9	528.1	516.9	510.5	518.5	513.7
30°	609.7	611.3	603.3	572.9	534.5	513.7	499.3	497.7	496.1	500.9	499.3
32.5°	627.4	629.0	616.1	568.1	515.3	475.3	460.9	462.5	470.5	478.5	486.5
35°	637.0	645.0	629.0	552.1	476.9	432.1	416.1	430.5	444.9	456.1	464.1
37.5°	654.6	675.4	648.2	534.5	443.3	393.7	382.5	387.3	404.9	422.5	430.5
40°	680.2	704.2	653.0	500.9	398.5	355.3	348.9	350.5	356.9	368.1	376.1
42.5°	725.0	750.6	657.8	457.7	353.7	331.3	313.7	308.9	304.1	304.1	302.5
45°	790.6	814.6	651.4	403.3	308.9	292.9	280.1	268.9	256.1	235.3	238.5
47.5°	886.6	905.8	656.2	355.3	267.3	254.5	244.9	232.1	212.9	190.4	188.8
50°	1032.3	1003.4	649.8	305.7	236.9	225.7	217.7	200.0	177.6	161.6	160.0
52.5°	1201.9	1144.3	643.4	264.1	211.3	201.6	195.2	176.0	155.2	147.2	145.6
55°	1406.7	1323.5	653.0	227.3	192.0	184.0	177.6	160.0	144.0	137.6	136.0
57.5°	1648.4	1517.2	705.8	198.4	171.2	168.0	166.4	152.0	137.6	132.8	131.2
60°	1875.7	1702.8	741.0	177.6	152.0	155.2	158.4	152.0	136.0	132.8	132.8
62.5°	2066.1	1856.5	685.0	160.0	142.4	152.0	166.4	161.6	155.2	158.4	155.2
65°	2234.1	1909.3	512.1	150.4	137.6	160.0	184.0	182.4	168.0	171.2	169.6
67.5°	2263.0	1845.2	334.5	142.4	134.4	176.0	206.5	187.2	158.4	158.4	153.6
70°	2142.9	1674.0	224.1	134.4	132.8	176.0	211.3	176.0	148.8	148.8	142.4
72.5°	1758.8	1337.9	172.8	126.4	121.6	156.8	200.0	166.4	139.2	136.0	124.8
75°	1155.5	862.6	140.8	120.0	105.6	137.6	180.8	153.6	132.8	123.2	118.4
77.5°	566.5	387.3	118.4	105.6	91.2	120.0	164.8	145.6	124.8	115.2	112.0
80°	155.2	139.2	99.2	92.8	76.8	104.0	155.2	139.2	116.8	107.2	102.4
82.5°	88.0	86.4	80.0	75.2	64.0	104.0	156.8	139.2	110.4	108.8	92.8
85°	48.0	51.2	57.6	56.0	49.6	92.8	148.8	121.6	89.6	75.2	75.2
87.5°	19.2	24.0	28.8	32.0	33.6	68.8	112.0	92.8	68.8	57.6	57.6
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)