

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: P674881

Luminaire Tested: **CCW-SA-1D-830-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674881
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4420.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

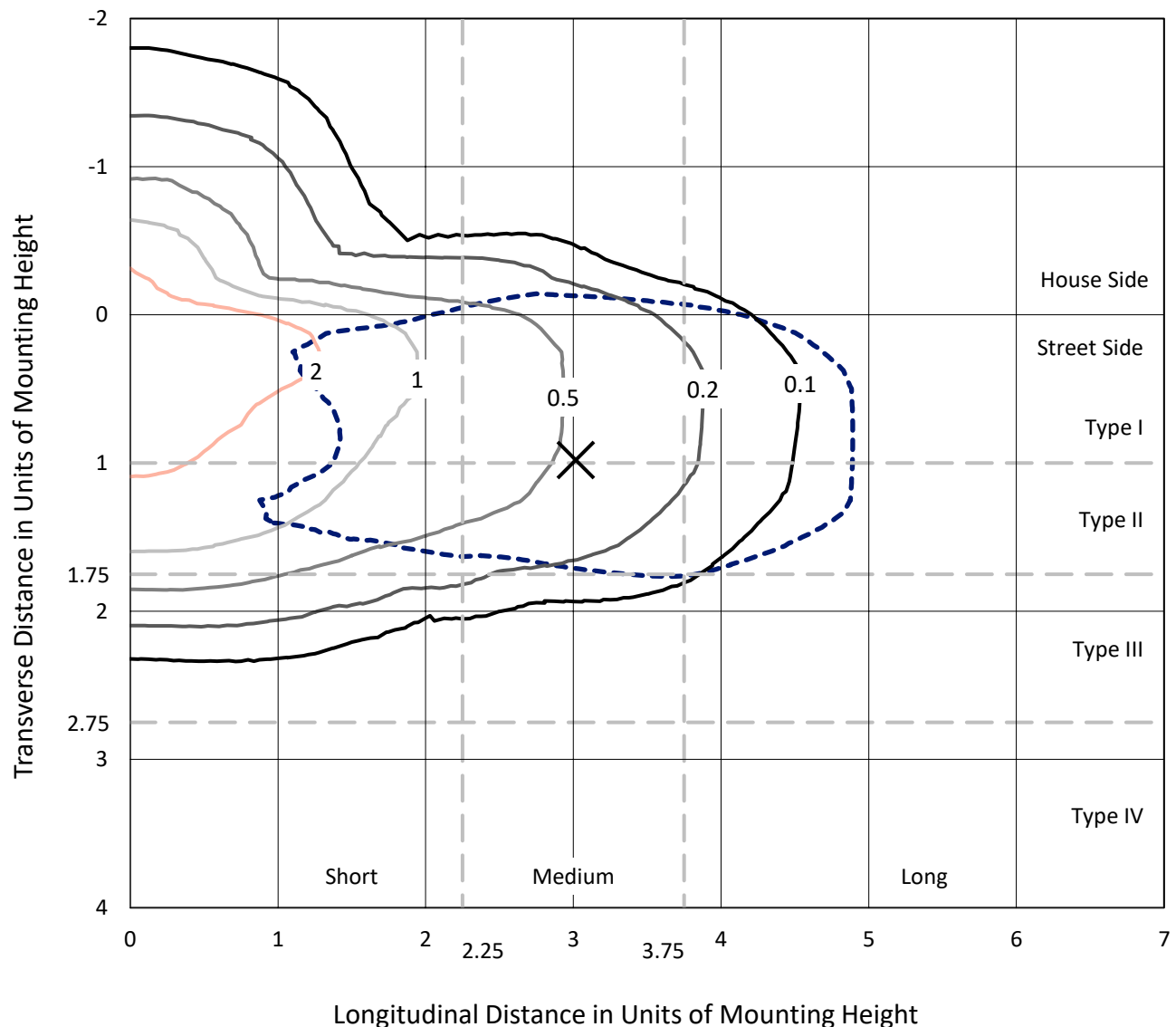
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

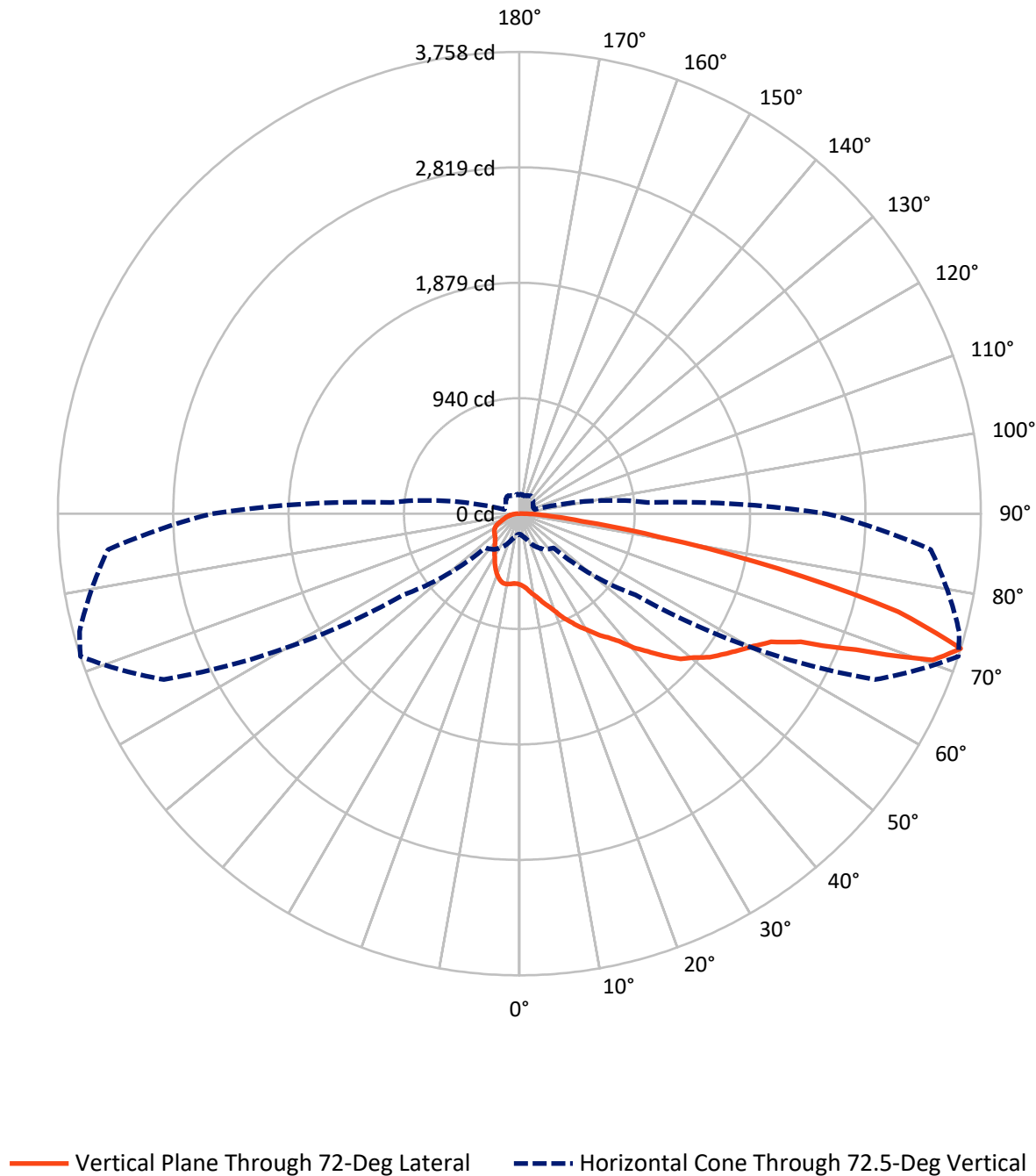
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.3	0.0	930.3
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	3490.1	0.0	3490.1
	% Fixture	79.0	0.0	79.0
Total	Lumens	4420.4	0.0	4420.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.3
10°-20°	177.4	4.0
20°-30°	307.0	6.9
30°-40°	453.4	10.3
40°-50°	674.2	15.3
50°-60°	924.3	20.9
60°-70°	1002.6	22.7
70°-80°	706.9	16.0
80°-90°	117.5	2.7
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°	4420.4	100.0
0°-180°	4420.4	100.0

Coefficient of Utilization



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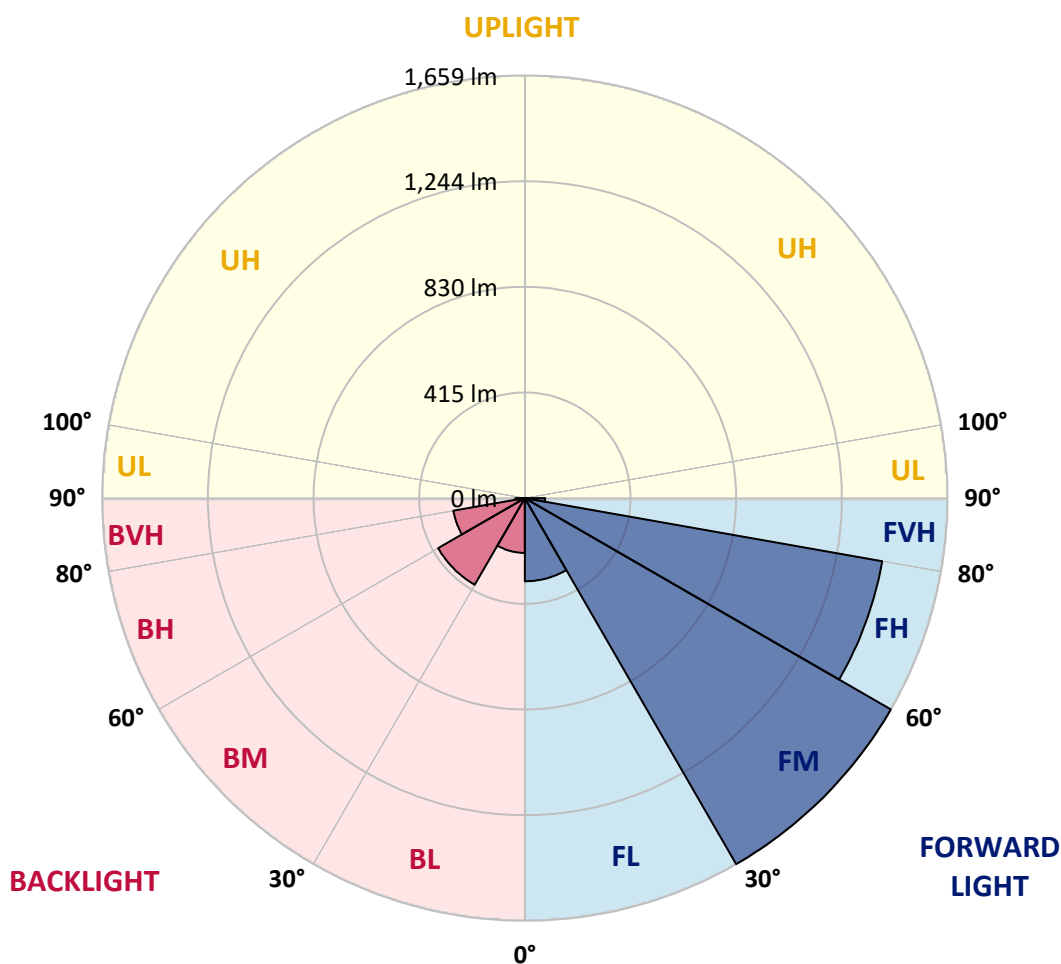
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.4	7.4			
FM	(30°-60°)	1659.1	37.5			
FH	(60°-80°)	1424.5	32.2			G1/1800
FVH	(80°-90°)	80.1	1.8			G1/100
BL	(0°-30°)	215.0	4.9	B1/500		
BM	(30°-60°)	392.9	8.9	B1/1000		
BH	(60°-80°)	285.0	6.4	B1/500		G1/500
BVH	(80°-90°)	37.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
2.5°	623.1	623.1	618.2	616.6	616.6	603.5	605.1	597.0	590.5	590.5	583.9
5°	655.7	652.5	652.5	652.5	644.3	639.4	637.8	623.1	611.7	613.3	593.7
7.5°	663.9	665.5	667.1	675.3	670.4	673.7	670.4	654.1	645.9	637.8	619.8
10°	668.8	672.0	672.0	683.4	683.4	691.6	696.5	690.0	675.3	667.1	637.8
12.5°	680.2	675.3	681.8	690.0	698.1	712.8	727.5	721.0	711.2	701.4	668.8
15°	680.2	681.8	686.7	699.8	712.8	727.5	753.6	763.4	758.5	740.5	706.3
17.5°	660.6	655.7	678.5	703.0	727.5	745.4	779.7	802.5	799.3	792.7	740.5
20°	662.2	667.1	675.3	696.5	735.6	768.3	810.7	848.2	856.3	853.1	786.2
22.5°	691.6	693.2	701.4	711.2	742.2	784.6	848.2	908.5	923.2	915.1	836.8
25°	721.0	734.0	734.0	740.5	752.0	796.0	872.7	957.5	978.7	980.3	889.0
27.5°	768.3	771.5	781.3	784.6	794.4	820.5	900.4	993.4	1042.3	1035.8	936.3
30°	823.7	825.4	831.9	828.6	830.2	862.9	926.5	1034.1	1101.0	1102.6	986.8
32.5°	889.0	902.0	905.3	884.1	887.3	895.5	967.3	1083.1	1174.4	1163.0	1030.9
35°	985.2	990.1	980.3	970.5	946.1	941.2	1009.7	1132.0	1238.0	1251.1	1096.1
37.5°	1104.3	1117.3	1104.3	1052.1	1026.0	1006.4	1061.9	1185.8	1314.7	1358.7	1161.4
40°	1215.2	1213.6	1200.5	1153.2	1107.5	1092.9	1136.9	1260.9	1433.8	1476.2	1256.0
42.5°	1304.9	1300.0	1291.9	1256.0	1213.6	1189.1	1223.3	1339.2	1533.3	1614.8	1365.3
45°	1383.2	1376.7	1378.3	1337.5	1296.7	1309.8	1309.8	1428.9	1650.7	1751.8	1490.9
47.5°	1456.6	1459.9	1455.0	1424.0	1393.0	1427.2	1409.3	1531.6	1766.5	1879.1	1596.9
50°	1541.4	1547.9	1531.6	1512.1	1484.3	1518.6	1495.7	1627.9	1841.5	1994.9	1724.1
52.5°	1621.3	1627.9	1642.5	1618.1	1590.4	1618.1	1565.9	1717.6	1941.0	2107.4	1822.0
55°	1640.9	1637.7	1719.2	1745.3	1760.0	1676.8	1627.9	1794.2	2019.3	2179.2	1932.9
57.5°	1551.2	1559.4	1670.3	1745.3	1901.9	1830.1	1698.0	1884.0	2100.9	2273.8	2035.6
60°	1327.7	1332.6	1471.3	1649.1	1877.4	1973.7	1887.2	1999.8	2190.6	2353.7	2151.5
62.5°	887.3	924.9	1097.7	1376.7	1704.5	2012.8	2189.0	2195.5	2299.9	2454.8	2309.7
65°	468.1	486.1	621.5	846.6	1291.9	1877.4	2472.8	2583.7	2518.5	2640.8	2538.0
67.5°	306.7	313.2	386.6	513.8	745.4	1370.1	2505.4	3257.4	2957.2	2994.8	2903.4
70°	228.4	231.6	285.4	380.1	461.6	732.4	2053.6	3572.2	3570.5	3471.0	3337.3
72.5°	168.0	172.9	210.4	290.3	355.6	394.7	1154.8	3195.4	3758.1	3707.6	3363.4
75°	132.1	135.4	155.0	225.1	287.1	259.3	585.6	2366.8	3187.2	3430.3	3077.9
77.5°	107.7	110.9	122.3	163.1	230.0	200.6	280.6	1526.7	2161.2	2469.5	2355.4
80°	89.7	89.7	97.9	115.8	177.8	151.7	166.4	858.0	1164.6	1285.3	1068.4
82.5°	76.7	75.0	81.6	84.8	132.1	109.3	107.7	388.2	512.2	543.2	401.3
85°	48.9	50.6	76.7	73.4	86.4	75.0	60.4	184.3	241.4	246.3	150.1
87.5°	19.6	19.6	32.6	40.8	48.9	45.7	29.4	83.2	106.0	106.0	42.4
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°	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
2.5°	582.3	575.8	570.9	567.6	559.5	551.3	553.0	551.3	544.8	541.5	541.5
5°	588.8	582.3	574.2	561.1	553.0	543.2	546.4	539.9	533.4	538.3	530.1
7.5°	605.1	593.7	582.3	562.7	549.7	535.0	528.5	525.2	520.3	517.1	517.1
10°	628.0	611.7	590.5	561.1	539.9	517.1	513.8	507.3	502.4	502.4	500.8
12.5°	650.8	632.9	597.0	549.7	513.8	497.5	495.9	497.5	500.8	502.4	504.0
15°	680.2	650.8	595.4	528.5	492.6	486.1	494.2	500.8	507.3	513.8	512.2
17.5°	707.9	673.7	580.7	502.4	474.7	476.3	491.0	504.0	517.1	523.6	525.2
20°	745.4	694.9	559.5	471.4	456.7	471.4	491.0	507.3	522.0	530.1	531.7
22.5°	787.8	719.3	531.7	443.7	442.0	456.7	476.3	500.8	517.1	531.7	530.1
25°	825.4	735.6	495.9	420.8	424.1	433.9	456.7	482.8	499.1	515.4	510.5
27.5°	849.8	738.9	458.3	404.5	404.5	414.3	435.5	451.8	466.5	479.6	481.2
30°	877.5	732.4	415.9	383.3	383.3	396.4	404.5	414.3	422.5	425.7	429.0
32.5°	910.2	717.7	389.8	367.0	367.0	376.8	381.7	378.4	376.8	368.6	373.5
35°	941.2	696.5	360.5	345.8	352.3	357.2	355.6	345.8	336.0	321.3	316.4
37.5°	978.7	675.3	334.4	323.0	334.4	336.0	336.0	324.6	311.5	293.6	293.6
40°	1035.8	659.0	313.2	308.3	319.7	318.1	309.9	301.8	306.7	296.9	296.9
42.5°	1096.1	652.5	293.6	295.2	300.1	301.8	293.6	283.8	303.4	292.0	293.6
45°	1171.2	657.3	280.6	278.9	290.3	288.7	283.8	275.7	282.2	252.8	244.7
47.5°	1241.3	667.1	274.0	267.5	280.6	283.8	277.3	259.3	249.6	231.6	228.4
50°	1304.9	688.3	267.5	254.5	267.5	274.0	262.6	243.0	231.6	220.2	220.2
52.5°	1365.3	719.3	264.2	239.8	251.2	259.3	252.8	233.3	220.2	215.3	210.4
55°	1427.2	747.1	259.3	230.0	233.3	249.6	247.9	221.8	208.8	208.8	207.2
57.5°	1515.3	784.6	252.8	213.7	220.2	238.1	238.1	216.9	202.3	203.9	205.5
60°	1605.0	828.6	246.3	197.4	202.3	226.7	230.0	210.4	197.4	199.0	197.4
62.5°	1748.6	910.2	233.3	177.8	187.6	212.0	220.2	202.3	190.8	194.1	194.1
65°	1965.5	1050.4	205.5	161.5	172.9	199.0	210.4	194.1	181.1	190.8	187.6
67.5°	2314.6	1242.9	172.9	148.4	163.1	185.9	199.0	184.3	172.9	187.6	182.7
70°	2627.7	1337.5	148.4	137.0	148.4	171.3	185.9	174.5	163.1	177.8	171.3
72.5°	2500.5	1048.8	128.9	124.0	135.4	155.0	172.9	161.5	150.1	158.2	151.7
75°	2158.0	835.1	112.5	110.9	120.7	140.3	158.2	150.1	138.6	141.9	138.6
77.5°	1636.0	690.0	96.2	94.6	102.8	125.6	141.9	135.4	124.0	122.3	122.3
80°	730.7	339.3	79.9	79.9	84.8	107.7	120.7	117.4	106.0	104.4	102.8
82.5°	239.8	128.9	65.2	62.0	68.5	89.7	107.7	104.4	93.0	89.7	86.4
85°	96.2	62.0	47.3	47.3	53.8	75.0	96.2	89.7	75.0	66.9	66.9
87.5°	32.6	26.1	24.5	24.5	34.3	50.6	71.8	60.4	53.8	47.3	48.9
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)