

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: P675313

Luminaire Tested: **CCW-SA-1D-830-U-T4W**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675313
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-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4470.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

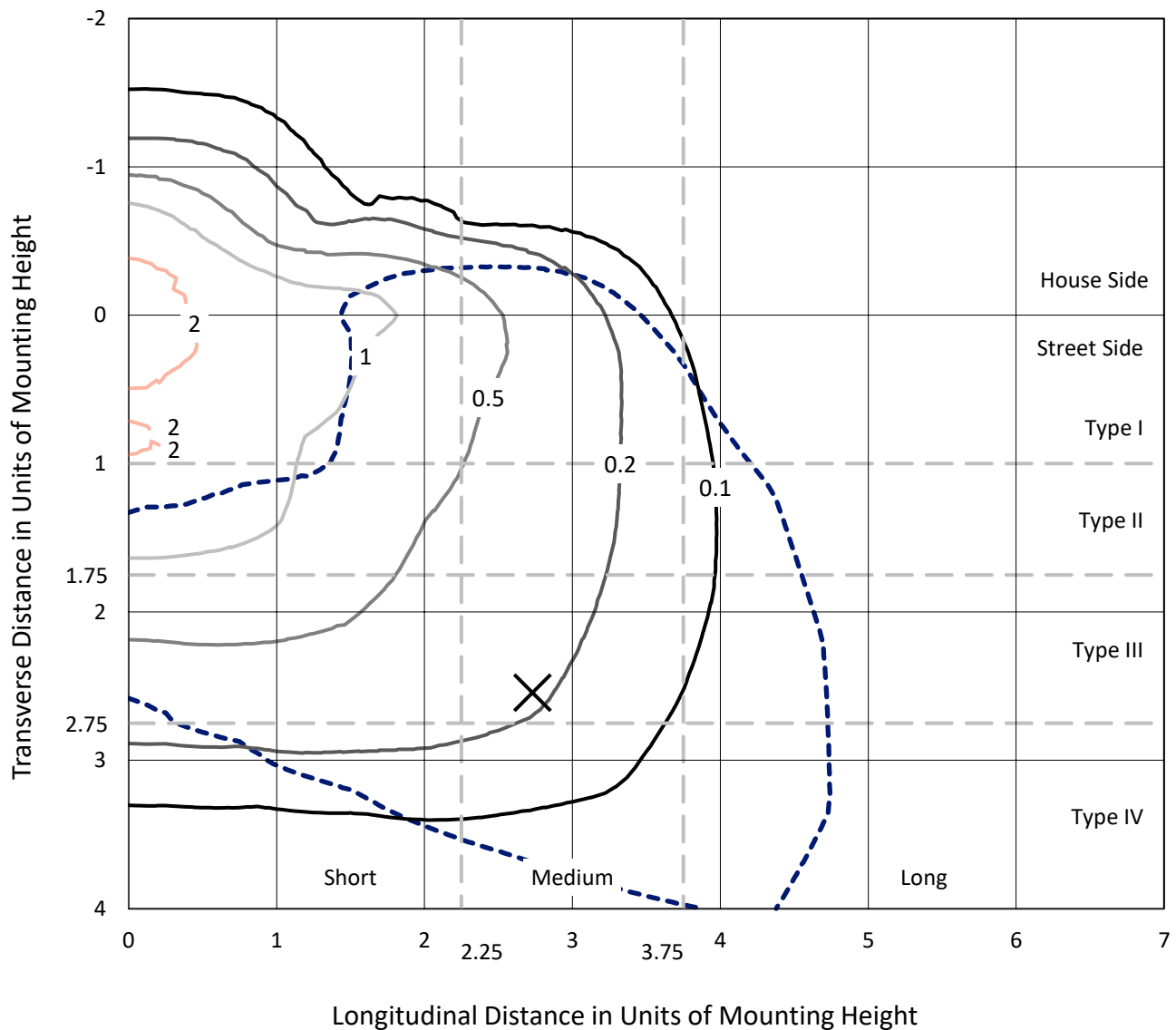
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

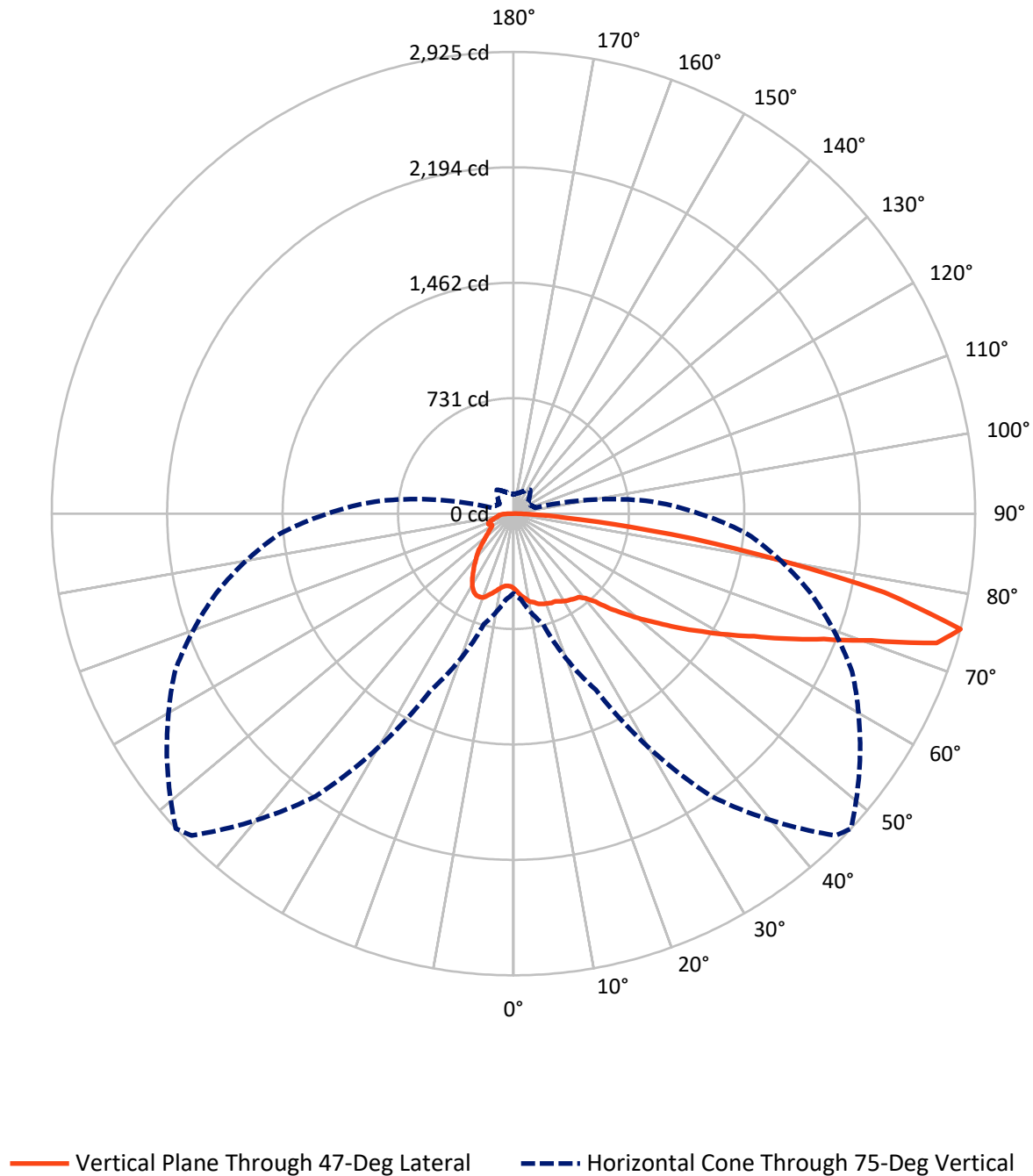
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 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	1069.1	0.0	1069.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3401.4	0.0	3401.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	4470.5	0.0	4470.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	1.1
10°-20°	159.4	3.6
20°-30°	272.9	6.1
30°-40°	381.9	8.5
40°-50°	532.5	11.9
50°-60°	795.9	17.8
60°-70°	1147.5	25.7
70°-80°	976.8	21.8
80°-90°	155.6	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°	4470.5	100.0
0°-180°	4470.5	100.0



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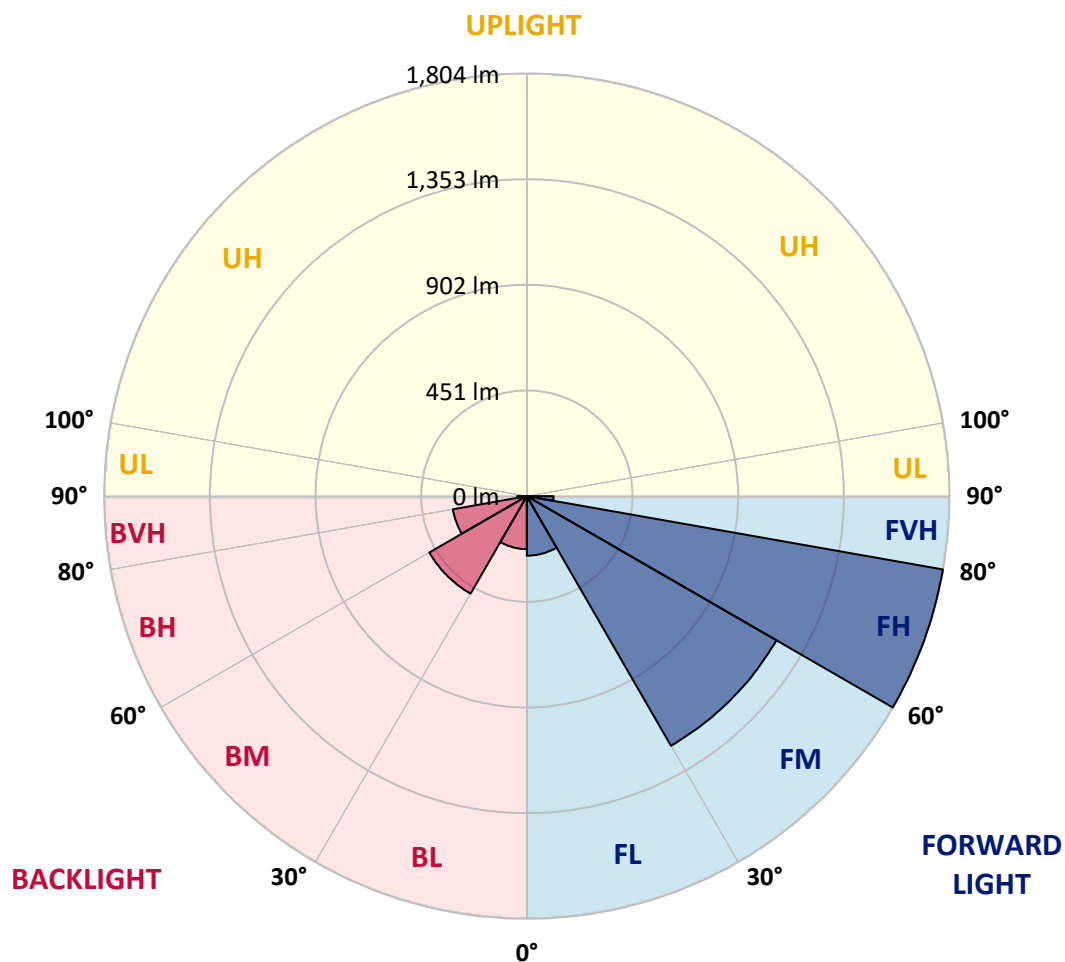
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.0	5.7			
FM	(30°-60°)	1229.8	27.5			
FH	(60°-80°)	1803.6	40.3			G2/5000
FVH	(80°-90°)	114.0	2.6			G2/225
BL	(0°-30°)	226.3	5.1	B1/500		
BM	(30°-60°)	480.5	10.7	B1/1000		
BH	(60°-80°)	320.7	7.2	B1/500		G1/500
BVH	(80°-90°)	41.6	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°	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7
2.5°	508.9	510.6	510.6	507.3	504.0	497.5	497.5	491.0	487.7	479.6	476.3
5°	556.2	551.3	546.4	544.8	536.7	525.2	523.6	517.1	499.1	491.0	479.6
7.5°	590.5	588.9	587.2	580.7	566.0	548.1	543.2	533.4	515.5	499.1	486.1
10°	618.2	624.7	618.2	603.5	588.9	569.3	567.6	549.7	533.4	513.8	497.5
12.5°	649.2	650.8	639.4	621.5	598.6	582.3	575.8	569.3	551.3	535.0	510.6
15°	670.4	667.2	659.0	634.5	608.4	592.1	593.7	585.6	566.0	554.6	528.5
17.5°	670.4	670.4	657.4	639.4	616.6	601.9	601.9	597.0	584.0	567.6	549.7
20°	657.4	657.4	649.2	639.4	613.3	610.1	606.8	603.5	603.5	588.9	562.8
22.5°	641.1	637.8	641.1	624.7	606.8	610.1	615.0	613.3	608.4	595.4	577.4
25°	624.7	626.4	629.6	618.2	601.9	616.6	615.0	623.1	619.8	610.1	595.4
27.5°	623.1	626.4	628.0	616.6	610.1	623.1	629.6	637.8	639.4	629.6	611.7
30°	647.6	645.9	644.3	629.6	624.7	636.2	642.7	654.1	663.9	642.7	628.0
32.5°	711.2	701.4	691.6	652.5	637.8	645.9	652.5	668.8	670.4	659.0	637.8
35°	812.3	805.8	773.2	704.7	663.9	655.7	662.3	673.7	676.9	668.8	652.5
37.5°	928.1	924.9	879.2	796.0	717.7	678.6	672.0	688.4	701.4	683.5	660.6
40°	1042.3	1029.3	996.6	915.1	786.2	712.8	704.7	712.8	717.7	704.7	690.0
42.5°	1145.1	1130.4	1122.2	1040.7	875.9	769.9	763.4	743.8	758.5	742.2	722.6
45°	1231.5	1228.3	1225.0	1154.9	978.7	862.9	858.0	807.4	823.7	810.7	783.0
47.5°	1293.5	1308.2	1303.3	1264.2	1096.2	962.4	947.7	882.5	906.9	893.9	866.2
50°	1366.9	1375.1	1370.2	1344.1	1205.4	1076.6	1048.8	982.0	1009.7	1008.1	993.4
52.5°	1432.2	1456.6	1428.9	1427.3	1362.0	1200.5	1153.2	1089.6	1135.3	1153.2	1151.6
55°	1508.8	1528.4	1520.3	1517.0	1502.3	1321.3	1278.8	1202.2	1278.8	1304.9	1327.8
57.5°	1574.1	1572.5	1603.4	1641.0	1658.9	1459.9	1409.3	1319.6	1435.4	1464.8	1528.4
60°	1603.4	1631.2	1683.4	1778.0	1828.5	1608.3	1556.1	1484.4	1593.7	1616.5	1733.9
62.5°	1623.0	1647.5	1748.6	1908.5	1937.8	1760.0	1711.1	1639.3	1766.6	1782.9	1957.4
65°	1569.2	1592.0	1792.7	1957.4	2061.8	1923.2	1911.7	1836.7	1939.5	1949.3	2192.3
67.5°	1507.2	1531.7	1755.1	2019.4	2226.6	2140.1	2122.2	2032.4	2110.7	2099.3	2371.7
70°	1397.9	1430.5	1658.9	2073.2	2409.2	2443.5	2407.6	2280.4	2288.5	2180.9	2379.9
72.5°	1065.2	1086.4	1298.4	1859.5	2494.1	2864.3	2802.4	2547.9	2454.9	2197.2	2101.0
75°	505.7	544.8	724.2	1229.9	2185.8	2883.9	2924.7	2680.0	2366.8	1949.3	1489.3
77.5°	146.8	146.8	220.2	522.0	1370.2	2324.4	2401.1	2275.5	1952.5	1443.6	783.0
80°	79.9	84.8	115.8	184.3	601.9	1466.4	1577.3	1508.8	1150.0	570.9	202.3
82.5°	45.7	47.3	76.7	110.9	274.0	797.6	862.9	783.0	437.2	172.9	94.6
85°	26.1	27.7	44.0	73.4	163.1	293.6	319.7	277.3	176.2	115.8	47.3
87.5°	13.0	13.0	21.2	34.3	83.2	83.2	81.6	99.5	106.0	70.1	21.2
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°	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7	474.7
2.5°	474.7	473.0	473.0	466.5	464.9	460.0	460.0	456.7	455.1	460.0	460.0
5°	476.3	468.1	466.5	460.0	461.6	458.4	464.9	461.6	460.0	460.0	458.4
7.5°	479.6	471.4	464.9	460.0	458.4	463.3	471.4	471.4	481.2	476.3	476.3
10°	487.7	482.8	474.7	471.4	471.4	476.3	486.1	492.6	500.8	500.8	495.9
12.5°	507.3	499.1	489.4	484.5	491.0	495.9	505.7	512.2	522.0	525.2	522.0
15°	522.0	513.8	510.6	507.3	512.2	518.7	526.9	533.4	544.8	548.1	546.4
17.5°	541.6	531.8	530.1	531.8	535.0	539.9	544.8	549.7	557.9	557.9	557.9
20°	551.3	548.1	546.4	551.3	557.9	564.4	561.1	557.9	556.2	559.5	557.9
22.5°	569.3	566.0	567.6	572.5	572.5	569.3	564.4	553.0	549.7	553.0	549.7
25°	585.6	582.3	582.3	579.1	577.4	566.0	556.2	546.4	535.0	539.9	538.3
27.5°	601.9	600.3	600.3	587.2	570.9	551.3	538.3	526.9	520.3	528.5	523.6
30°	621.5	623.1	615.0	584.0	544.8	523.6	508.9	507.3	505.7	510.6	508.9
32.5°	639.4	641.1	628.0	579.1	525.2	484.5	469.8	471.4	479.6	487.7	495.9
35°	649.2	657.4	641.1	562.8	486.1	440.4	424.1	438.8	453.5	464.9	473.0
37.5°	667.2	688.4	660.6	544.8	451.8	401.3	389.9	394.7	412.7	430.6	438.8
40°	693.3	717.7	665.5	510.6	406.2	362.1	355.6	357.2	363.8	375.2	383.3
42.5°	738.9	765.0	670.4	466.5	360.5	337.7	319.7	314.8	309.9	309.9	308.3
45°	805.8	830.3	663.9	411.1	314.8	298.5	285.5	274.0	261.0	239.8	243.0
47.5°	903.7	923.2	668.8	362.1	272.4	259.4	249.6	236.5	216.9	194.1	192.5
50°	1052.1	1022.7	662.3	311.6	241.4	230.0	221.8	203.9	181.1	164.7	163.1
52.5°	1225.0	1166.3	655.7	269.1	215.3	205.5	199.0	179.4	158.2	150.1	148.4
55°	1433.8	1349.0	665.5	231.6	195.7	187.6	181.1	163.1	146.8	140.3	138.7
57.5°	1680.1	1546.4	719.3	202.3	174.5	171.3	169.6	155.0	140.3	135.4	133.8
60°	1911.7	1735.6	755.2	181.1	155.0	158.2	161.5	155.0	138.7	135.4	135.4
62.5°	2105.8	1892.2	698.1	163.1	145.2	155.0	169.6	164.7	158.2	161.5	158.2
65°	2277.1	1946.0	522.0	153.3	140.3	163.1	187.6	186.0	171.3	174.5	172.9
67.5°	2306.5	1880.7	340.9	145.2	137.0	179.4	210.4	190.8	161.5	161.5	156.6
70°	2184.1	1706.2	228.4	137.0	135.4	179.4	215.3	179.4	151.7	151.7	145.2
72.5°	1792.7	1363.7	176.2	128.9	124.0	159.9	203.9	169.6	141.9	138.7	127.2
75°	1177.7	879.2	143.5	122.3	107.7	140.3	184.3	156.6	135.4	125.6	120.7
77.5°	577.4	394.7	120.7	107.7	93.0	122.3	168.0	148.4	127.2	117.4	114.2
80°	158.2	141.9	101.1	94.6	78.3	106.0	158.2	141.9	119.1	109.3	104.4
82.5°	89.7	88.1	81.6	76.7	65.2	106.0	159.9	141.9	112.6	110.9	94.6
85°	48.9	52.2	58.7	57.1	50.6	94.6	151.7	124.0	91.3	76.7	76.7
87.5°	19.6	24.5	29.4	32.6	34.3	70.1	114.2	94.6	70.1	58.7	58.7
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)