

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: P675457

Luminaire Tested: **CCW-SA-1D-830-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675457
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-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL2 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

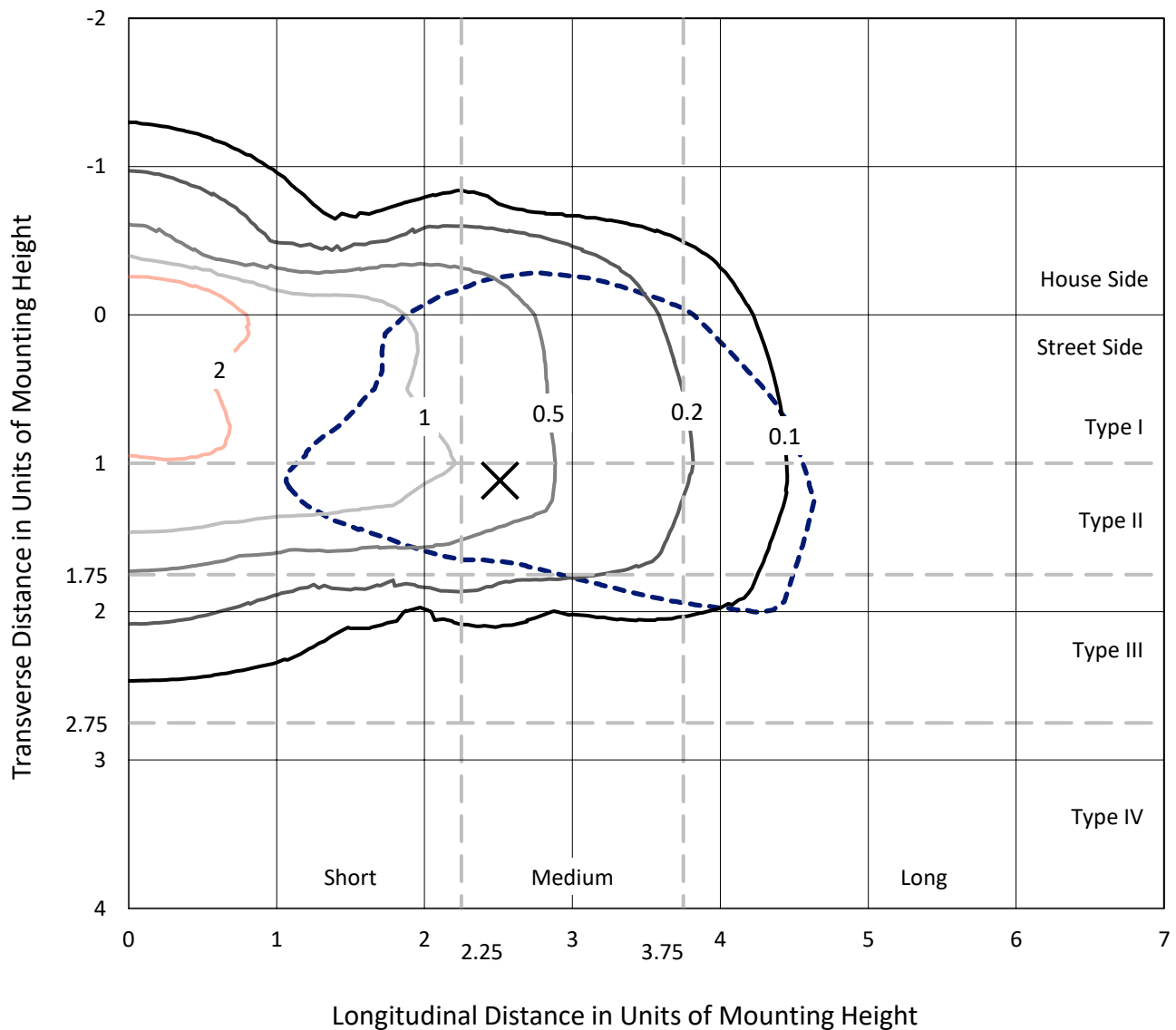
Lumens per Lamp: N/A
Luminaire Lumens: 4385.7 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

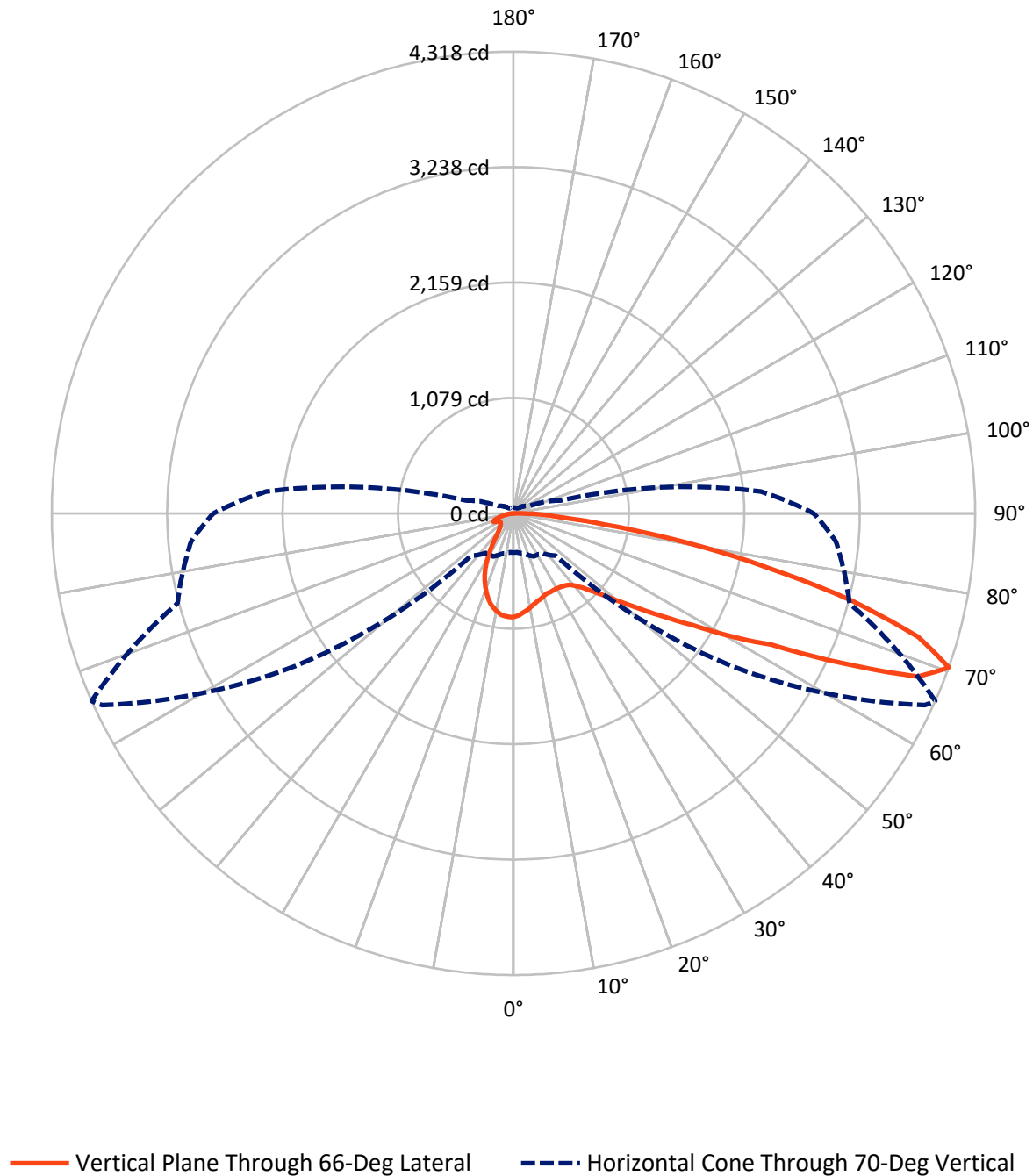
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	897.7	0.0	897.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3488.0	0.0	3488.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	4385.7	0.0	4385.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	2.0
10°-20°	210.9	4.8
20°-30°	289.7	6.6
30°-40°	388.4	8.9
40°-50°	563.5	12.8
50°-60°	856.5	19.5
60°-70°	1057.8	24.1
70°-80°	786.6	17.9
80°-90°	146.7	3.3
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°	4385.7	100.0
0°-180°	4385.7	100.0

Coefficient of Utilization



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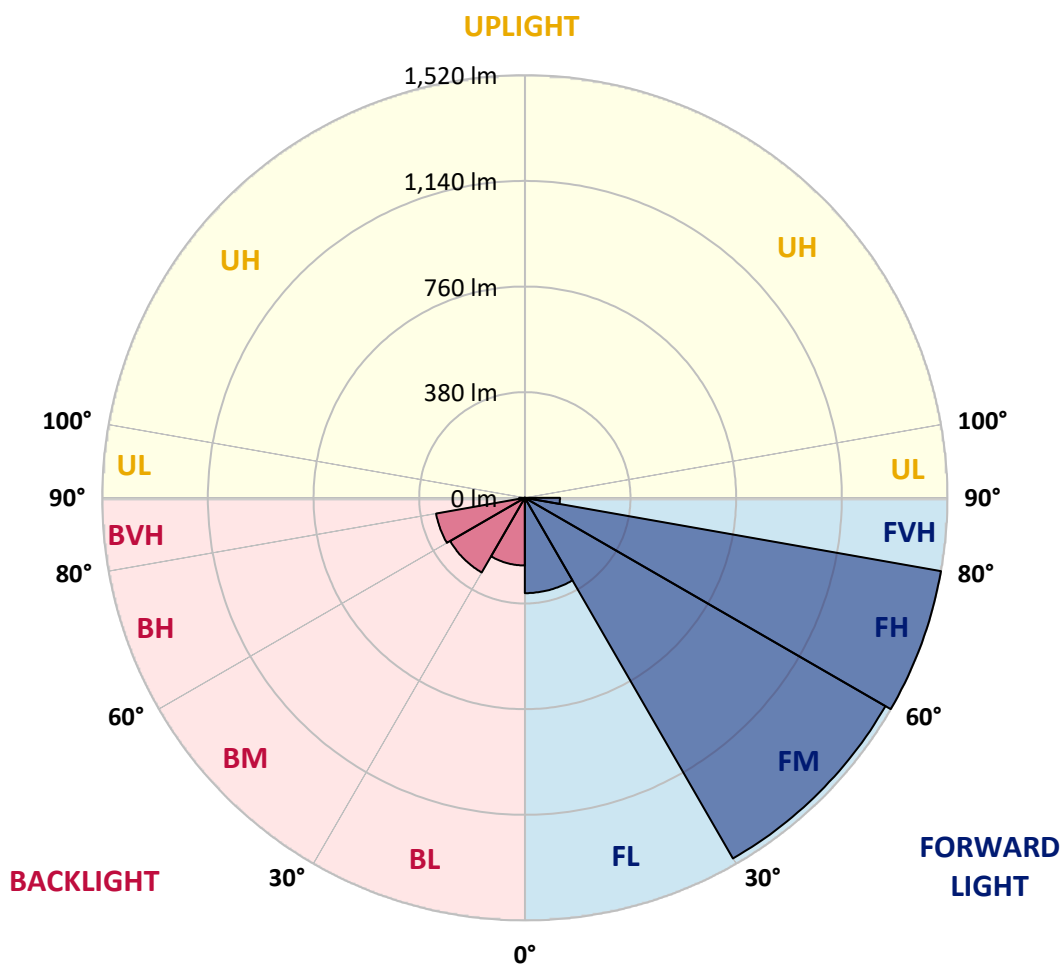
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.9	7.8			
FM	(30°-60°)	1498.2	34.2			
FH	(60°-80°)	1520.4	34.7			G1/1800
FVH	(80°-90°)	126.5	2.9			G2/225
BL	(0°-30°)	243.3	5.5	B1/500		
BM	(30°-60°)	310.1	7.1	B1/1000		
BH	(60°-80°)	324.1	7.4	B1/500		G1/500
BVH	(80°-90°)	20.3	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9
2.5°	921.6	926.5	928.2	931.4	939.6	946.1	955.9	960.8	955.9	962.4	962.4
5°	858.0	851.5	867.8	874.3	884.1	897.2	920.0	937.9	933.1	952.6	968.9
7.5°	804.2	804.2	809.1	823.8	835.2	854.8	879.2	907.0	915.1	941.2	965.7
10°	755.3	761.8	761.8	784.6	791.1	814.0	854.8	889.0	890.6	934.7	968.9
12.5°	729.2	725.9	742.2	748.7	768.3	791.1	823.8	866.2	867.8	915.1	962.4
15°	707.9	711.2	719.4	735.7	753.6	771.6	802.6	841.7	849.9	905.3	959.2
17.5°	709.6	711.2	711.2	722.6	737.3	758.5	787.9	833.5	838.4	892.3	954.3
20°	719.4	712.8	717.7	722.6	732.4	752.0	776.5	815.6	820.5	890.6	965.7
22.5°	740.6	735.7	734.0	732.4	730.8	742.2	773.2	805.8	810.7	882.5	970.6
25°	774.8	773.2	761.8	750.4	742.2	742.2	766.7	814.0	812.3	882.5	973.8
27.5°	815.6	815.6	814.0	792.8	768.3	755.3	771.6	810.7	809.1	882.5	982.0
30°	871.1	871.1	866.2	846.6	802.6	765.0	774.8	807.4	812.3	876.0	975.5
32.5°	931.4	929.8	934.7	916.7	871.1	810.7	794.4	814.0	818.9	882.5	977.1
35°	975.5	985.3	1001.6	985.3	939.6	858.0	822.1	827.0	830.3	884.1	983.6
37.5°	1026.0	1037.4	1060.3	1073.3	1024.4	929.8	866.2	848.2	848.2	905.3	985.3
40°	1099.4	1088.0	1127.2	1150.0	1130.4	1017.9	934.7	887.4	889.0	933.1	1006.5
42.5°	1153.3	1164.7	1205.5	1246.2	1221.8	1125.5	1009.7	951.0	951.0	973.8	1039.1
45°	1213.6	1226.7	1283.8	1332.7	1350.6	1254.4	1112.5	1042.3	1039.1	1053.8	1097.8
47.5°	1280.5	1298.4	1363.7	1420.8	1468.1	1388.2	1244.6	1153.3	1151.6	1163.1	1195.7
50°	1357.2	1363.7	1417.5	1521.9	1616.5	1566.0	1406.1	1309.9	1301.7	1306.6	1350.6
52.5°	1380.0	1375.1	1437.1	1549.6	1722.6	1782.9	1626.3	1487.7	1484.4	1473.0	1530.1
55°	1296.8	1313.1	1373.5	1517.0	1809.0	2039.0	1867.7	1730.7	1701.4	1670.4	1738.9
57.5°	1130.4	1132.1	1200.6	1370.2	1742.1	2251.1	2277.2	1968.9	1970.5	1887.3	1965.6
60°	879.2	874.3	928.2	1081.5	1551.3	2316.3	2724.1	2348.9	2332.6	2104.3	2176.0
62.5°	634.5	624.8	636.2	725.9	1159.8	2216.8	3162.9	2774.7	2706.2	2326.1	2381.6
65°	522.0	526.9	531.8	536.7	650.9	1828.6	3298.3	3469.6	3378.2	2585.5	2608.3
67.5°	432.3	435.5	456.7	486.1	482.8	1079.9	3141.7	4112.3	4078.0	2906.8	2804.0
70°	367.0	365.4	389.9	443.7	451.8	561.1	2487.6	4244.4	4317.8	3252.6	3025.9
72.5°	293.6	296.9	318.1	389.9	443.7	473.1	1432.2	3960.6	3958.9	3518.5	2906.8
75°	210.4	210.4	239.8	323.0	429.0	468.2	792.8	3215.1	3275.5	3306.5	2521.9
77.5°	138.7	145.2	168.0	241.4	402.9	458.4	502.4	2337.5	2412.6	2472.9	1929.7
80°	94.6	97.9	112.6	168.0	340.9	461.6	411.1	1572.5	1601.8	1365.3	783.0
82.5°	57.1	58.7	75.0	117.4	244.7	438.8	386.6	867.8	849.9	412.7	225.1
85°	31.0	32.6	47.3	78.3	161.5	383.3	380.1	425.7	396.4	151.7	94.6
87.5°	11.4	11.4	21.2	39.1	93.0	262.6	331.1	252.8	236.5	76.7	44.0
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°	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9	968.9
2.5°	970.6	970.6	970.6	970.6	968.9	962.4	967.3	965.7	955.9	957.5	951.0
5°	967.3	975.5	970.6	964.0	955.9	936.3	929.8	924.9	911.8	907.0	911.8
7.5°	975.5	968.9	965.7	954.3	921.6	903.7	880.9	853.1	833.5	828.7	833.5
10°	973.8	973.8	959.2	926.5	895.5	843.3	814.0	765.0	737.3	729.2	730.8
12.5°	967.3	972.2	949.4	897.2	838.4	774.8	721.0	668.8	619.9	600.3	597.0
15°	973.8	968.9	928.2	861.3	779.7	691.6	613.3	536.7	491.0	461.6	455.1
17.5°	964.0	959.2	900.4	812.3	703.1	590.5	492.6	409.4	363.8	352.3	352.3
20°	975.5	944.5	867.8	753.6	623.1	479.6	368.7	306.7	295.2	295.2	298.5
22.5°	973.8	941.2	840.1	696.5	526.9	362.1	274.0	256.1	257.7	270.8	269.1
25°	964.0	934.7	800.9	632.9	425.7	272.4	226.7	221.8	233.3	247.9	246.3
27.5°	962.4	916.7	765.0	557.9	324.6	215.3	197.4	197.4	208.8	221.8	220.2
30°	952.6	902.1	721.0	473.1	244.7	187.6	181.1	181.1	186.0	192.5	192.5
32.5°	951.0	882.5	672.1	385.0	195.7	169.6	166.4	168.0	168.0	171.3	169.6
35°	937.9	856.4	621.5	298.5	169.6	159.9	156.6	155.0	155.0	153.3	153.3
37.5°	933.1	840.1	569.3	231.6	158.2	151.7	148.4	143.5	141.9	141.9	140.3
40°	937.9	823.8	518.7	187.6	148.4	145.2	140.3	133.8	132.1	132.1	132.1
42.5°	955.9	822.1	466.5	163.1	143.5	138.7	132.1	125.6	124.0	125.6	124.0
45°	996.7	835.2	416.0	151.7	137.0	132.1	124.0	119.1	117.4	119.1	119.1
47.5°	1063.5	871.1	370.3	145.2	132.1	125.6	117.4	112.6	112.6	112.6	112.6
50°	1174.5	939.6	326.2	140.3	128.9	120.7	112.6	106.0	104.4	104.4	106.0
52.5°	1340.9	1057.0	290.4	137.0	124.0	114.2	106.0	101.1	97.9	96.2	97.9
55°	1541.5	1228.3	278.9	133.8	117.4	109.3	101.1	94.6	91.3	91.3	89.7
57.5°	1756.8	1417.5	298.5	130.5	112.6	102.8	94.6	88.1	84.8	83.2	83.2
60°	1990.1	1641.0	370.3	128.9	107.7	96.2	88.1	83.2	78.3	76.7	76.7
62.5°	2202.1	1843.3	499.2	127.2	104.4	89.7	81.6	75.0	71.8	70.1	70.1
65°	2443.6	2068.4	624.8	133.8	102.8	84.8	75.0	68.5	65.2	63.6	63.6
67.5°	2654.0	2264.1	698.2	150.1	107.7	78.3	66.9	62.0	60.4	58.7	58.7
70°	2807.3	2324.5	468.2	164.8	115.8	73.4	60.4	57.1	53.8	53.8	53.8
72.5°	2601.8	2074.9	277.3	155.0	109.3	68.5	53.8	50.6	48.9	48.9	47.3
75°	2225.0	1766.6	213.7	125.6	88.1	58.7	47.3	44.0	42.4	42.4	40.8
77.5°	1642.6	1265.8	158.2	99.5	68.5	47.3	40.8	39.1	37.5	35.9	35.9
80°	642.7	554.6	107.7	73.4	50.6	37.5	34.3	32.6	31.0	29.4	29.4
82.5°	199.0	168.0	62.0	48.9	35.9	29.4	27.7	26.1	24.5	22.8	22.8
85°	86.5	83.2	40.8	31.0	24.5	19.6	19.6	17.9	16.3	14.7	14.7
87.5°	42.4	40.8	22.8	14.7	13.0	9.8	9.8	8.2	6.5	6.5	6.5
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)