

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: P675482

Luminaire Tested: **CCW-SA-2A-840-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675482
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL2 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

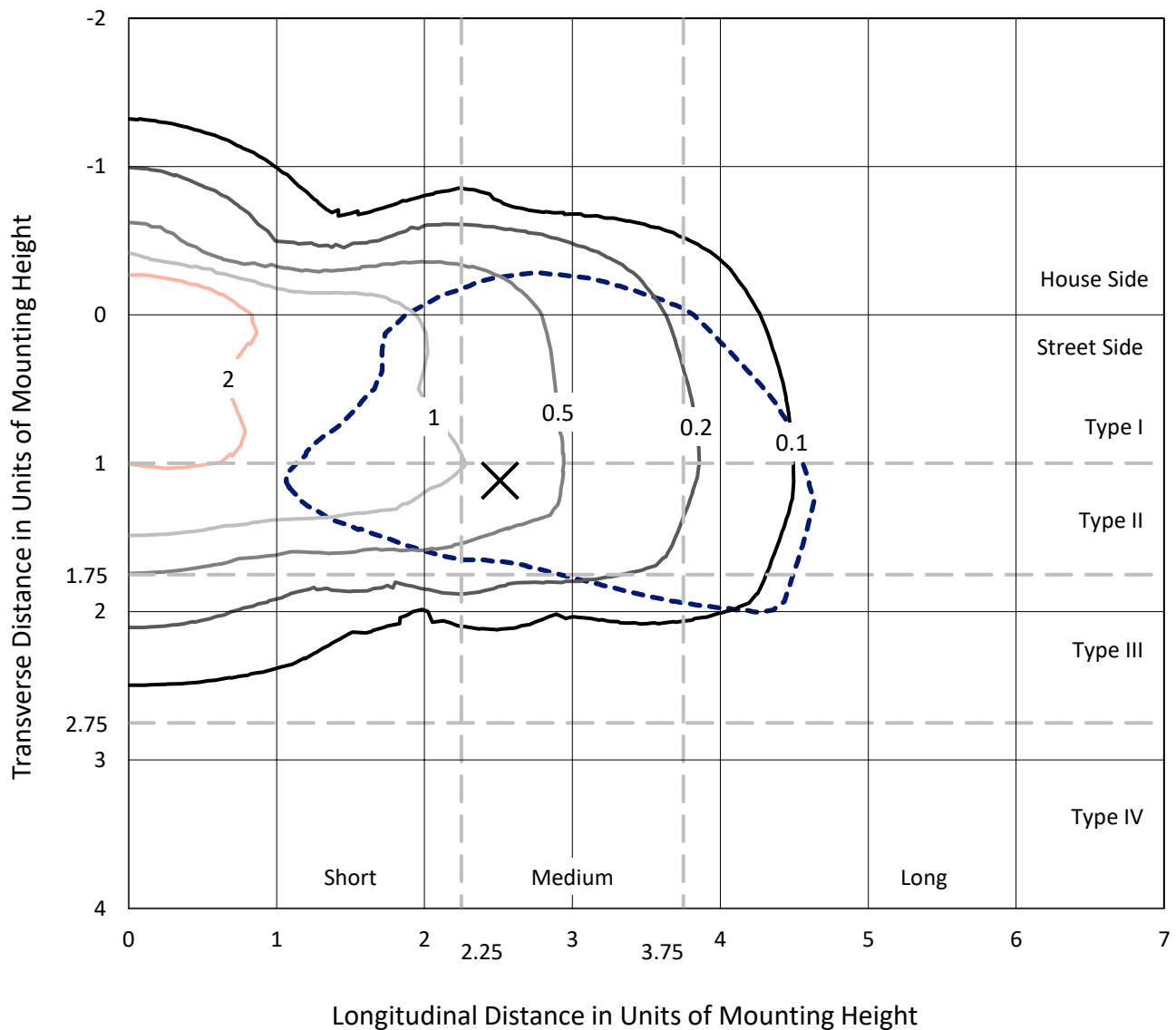
Lumens per Lamp: N/A
Luminaire Lumens: 4617 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

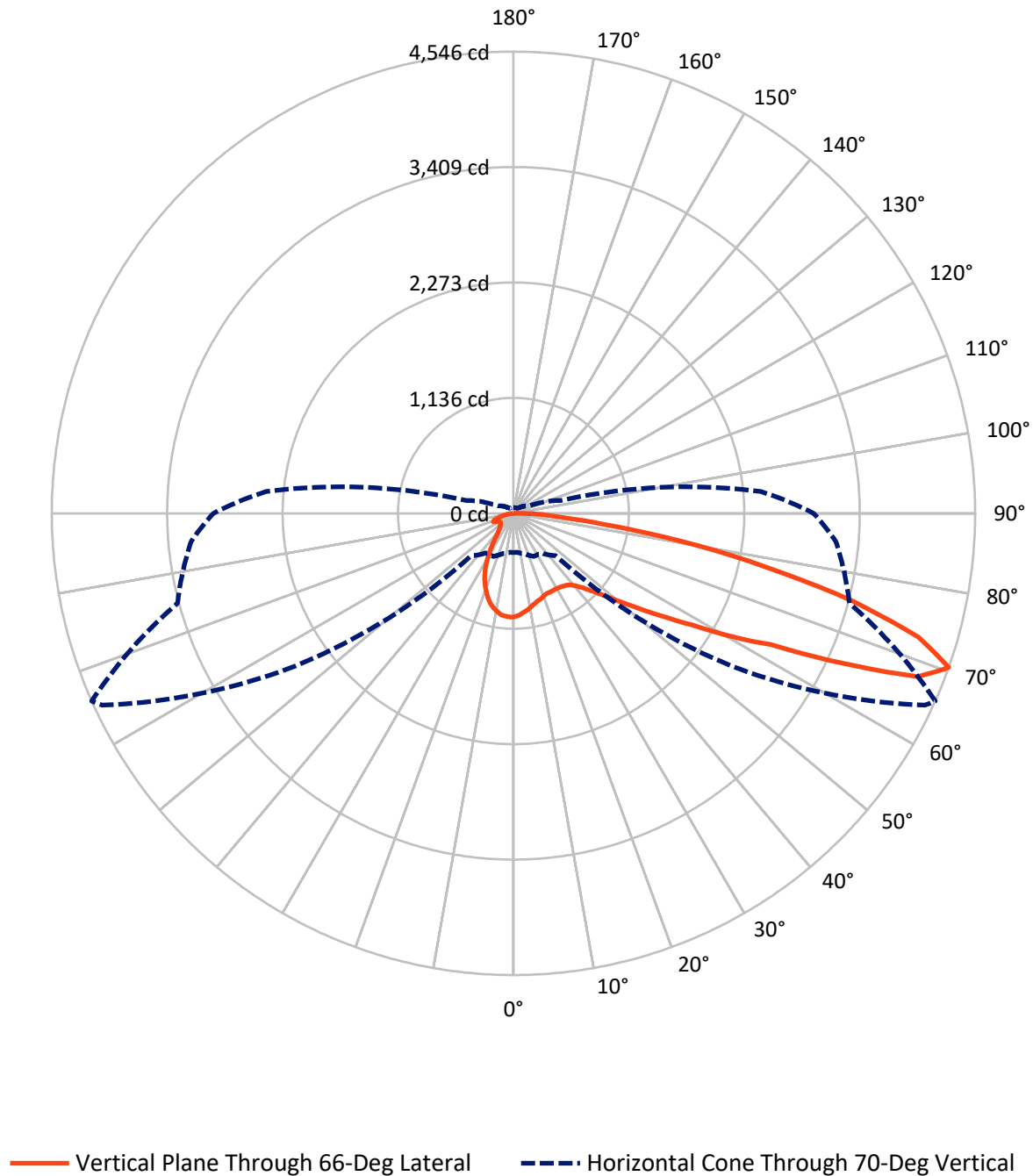
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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	945.0	0.0	945.0
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3672.0	0.0	3672.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	4617.0	0.0	4617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	2.0
10°-20°	222.0	4.8
20°-30°	304.9	6.6
30°-40°	408.8	8.9
40°-50°	593.2	12.8
50°-60°	901.7	19.5
60°-70°	1113.6	24.1
70°-80°	828.1	17.9
80°-90°	154.5	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°	4617.0	100.0
0°-180°	4617.0	100.0

Coefficient of Utilization



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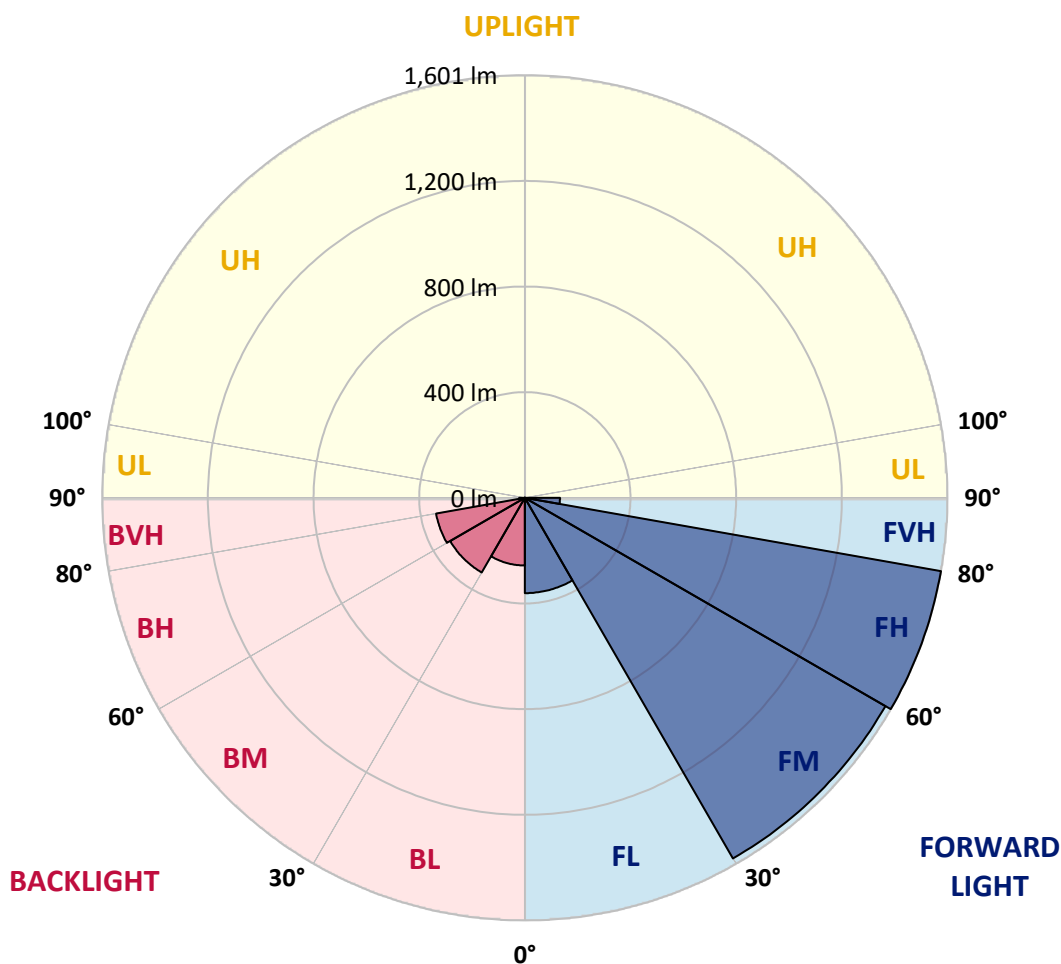
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.0	7.8			
FM	(30°-60°)	1577.2	34.2			
FH	(60°-80°)	1600.6	34.7			G1/1800
FVH	(80°-90°)	133.1	2.9			G2/225
BL	(0°-30°)	256.1	5.5	B1/500		
BM	(30°-60°)	326.4	7.1	B1/1000		
BH	(60°-80°)	341.1	7.4	B1/500		G1/500
BVH	(80°-90°)	21.3	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°	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0
2.5°	970.2	975.4	977.1	980.5	989.1	996.0	1006.3	1011.5	1006.3	1013.2	1013.2
5°	903.3	896.4	913.6	920.4	930.7	944.5	968.5	987.4	982.3	1002.9	1020.0
7.5°	846.6	846.6	851.8	867.2	879.2	899.8	925.6	954.8	963.4	990.8	1016.6
10°	795.1	802.0	802.0	826.0	832.9	856.9	899.8	935.9	937.6	984.0	1020.0
12.5°	767.6	764.2	781.3	788.2	808.8	832.9	867.2	911.9	913.6	963.4	1013.2
15°	745.3	748.7	757.3	774.5	793.4	812.3	844.9	886.1	894.7	953.1	1009.7
17.5°	747.0	748.7	748.7	760.7	776.2	798.5	829.4	877.5	882.7	939.3	1004.6
20°	757.3	750.4	755.6	760.7	771.0	791.6	817.4	858.6	863.8	937.6	1016.6
22.5°	779.6	774.5	772.8	771.0	769.3	781.3	814.0	848.3	853.5	929.0	1021.8
25°	815.7	814.0	802.0	789.9	781.3	781.3	807.1	856.9	855.2	929.0	1025.2
27.5°	858.6	858.6	856.9	834.6	808.8	795.1	812.3	853.5	851.8	929.0	1033.8
30°	917.0	917.0	911.9	891.2	844.9	805.4	815.7	850.0	855.2	922.2	1026.9
32.5°	980.5	978.8	984.0	965.1	917.0	853.5	836.3	856.9	862.1	929.0	1028.6
35°	1026.9	1037.2	1054.4	1037.2	989.1	903.3	865.5	870.6	874.1	930.7	1035.5
37.5°	1080.1	1092.2	1116.2	1129.9	1078.4	978.8	911.9	893.0	893.0	953.1	1037.2
40°	1157.4	1145.4	1186.6	1210.7	1190.0	1071.6	984.0	934.2	935.9	982.3	1059.5
42.5°	1214.1	1226.1	1269.0	1312.0	1286.2	1184.9	1063.0	1001.2	1001.2	1025.2	1093.9
45°	1277.6	1291.4	1351.5	1403.0	1421.9	1320.6	1171.2	1097.3	1093.9	1109.3	1155.7
47.5°	1348.0	1366.9	1435.6	1495.7	1545.5	1461.4	1310.3	1214.1	1212.4	1224.4	1258.7
50°	1428.7	1435.6	1492.3	1602.2	1701.8	1648.6	1480.3	1378.9	1370.4	1375.5	1421.9
52.5°	1452.8	1447.6	1512.9	1631.4	1813.4	1876.9	1712.1	1566.1	1562.7	1550.7	1610.8
55°	1365.2	1382.4	1445.9	1597.0	1904.4	2146.6	1966.2	1822.0	1791.1	1758.5	1830.6
57.5°	1190.0	1191.8	1263.9	1442.5	1834.0	2369.8	2397.3	2072.7	2074.4	1986.8	2069.3
60°	925.6	920.4	977.1	1138.5	1633.1	2438.5	2867.8	2472.8	2455.7	2215.2	2290.8
62.5°	668.0	657.7	669.7	764.2	1221.0	2333.7	3329.7	2921.0	2848.9	2448.8	2507.2
65°	549.5	554.7	559.8	565.0	685.2	1925.0	3472.3	3652.6	3556.4	2721.8	2745.9
67.5°	455.1	458.5	480.8	511.7	508.3	1136.8	3307.4	4329.2	4293.1	3060.1	2951.9
70°	386.4	384.7	410.4	467.1	475.7	590.7	2618.8	4468.3	4545.5	3424.2	3185.5
72.5°	309.1	312.5	334.9	410.4	467.1	498.0	1507.7	4169.5	4167.7	3704.1	3060.1
75°	221.5	221.5	252.4	340.0	451.6	492.8	834.6	3384.7	3448.2	3480.8	2654.9
77.5°	146.0	152.8	176.9	254.2	424.2	482.5	528.9	2460.8	2539.8	2603.3	2031.5
80°	99.6	103.0	118.5	176.9	358.9	486.0	432.7	1655.4	1686.3	1437.3	824.3
82.5°	60.1	61.8	79.0	123.6	257.6	461.9	407.0	913.6	894.7	434.5	237.0
85°	32.6	34.3	49.8	82.4	170.0	403.6	400.1	448.2	417.3	159.7	99.6
87.5°	12.0	12.0	22.3	41.2	97.9	276.5	348.6	266.2	249.0	80.7	46.4
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°	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0	1020.0
2.5°	1021.8	1021.8	1021.8	1021.8	1020.0	1013.2	1018.3	1016.6	1006.3	1008.0	1001.2
5°	1018.3	1026.9	1021.8	1014.9	1006.3	985.7	978.8	973.7	959.9	954.8	959.9
7.5°	1026.9	1020.0	1016.6	1004.6	970.2	951.4	927.3	898.1	877.5	872.4	877.5
10°	1025.2	1025.2	1009.7	975.4	942.8	887.8	856.9	805.4	776.2	767.6	769.3
12.5°	1018.3	1023.5	999.4	944.5	882.7	815.7	759.0	704.1	652.6	631.9	628.5
15°	1025.2	1020.0	977.1	906.7	820.8	728.1	645.7	565.0	516.9	486.0	479.1
17.5°	1014.9	1009.7	947.9	855.2	740.1	621.6	518.6	431.0	382.9	370.9	370.9
20°	1026.9	994.3	913.6	793.4	656.0	504.9	388.1	322.8	310.8	310.8	314.3
22.5°	1025.2	990.8	884.4	733.3	554.7	381.2	288.5	269.6	271.3	285.1	283.3
25°	1014.9	984.0	843.2	666.3	448.2	286.8	238.7	233.5	245.6	261.0	259.3
27.5°	1013.2	965.1	805.4	587.3	341.7	226.7	207.8	207.8	219.8	233.5	231.8
30°	1002.9	949.6	759.0	498.0	257.6	197.5	190.6	190.6	195.8	202.6	202.6
32.5°	1001.2	929.0	707.5	405.3	206.1	178.6	175.2	176.9	176.9	180.3	178.6
35°	987.4	901.6	654.3	314.3	178.6	168.3	164.9	163.1	163.1	161.4	161.4
37.5°	982.3	884.4	599.3	243.8	166.6	159.7	156.3	151.1	149.4	149.4	147.7
40°	987.4	867.2	546.1	197.5	156.3	152.8	147.7	140.8	139.1	139.1	139.1
42.5°	1006.3	865.5	491.1	171.7	151.1	146.0	139.1	132.2	130.5	132.2	130.5
45°	1049.2	879.2	437.9	159.7	144.2	139.1	130.5	125.4	123.6	125.4	125.4
47.5°	1119.6	917.0	389.8	152.8	139.1	132.2	123.6	118.5	118.5	118.5	118.5
50°	1236.4	989.1	343.4	147.7	135.7	127.1	118.5	111.6	109.9	109.9	111.6
52.5°	1411.6	1112.8	305.7	144.2	130.5	120.2	111.6	106.5	103.0	101.3	103.0
55°	1622.8	1293.1	293.6	140.8	123.6	115.1	106.5	99.6	96.2	96.2	94.4
57.5°	1849.5	1492.3	314.3	137.4	118.5	108.2	99.6	92.7	89.3	87.6	87.6
60°	2095.0	1727.5	389.8	135.7	113.3	101.3	92.7	87.6	82.4	80.7	80.7
62.5°	2318.3	1940.5	525.5	133.9	109.9	94.4	85.9	79.0	75.6	73.8	73.8
65°	2572.4	2177.5	657.7	140.8	108.2	89.3	79.0	72.1	68.7	67.0	67.0
67.5°	2793.9	2383.5	735.0	158.0	113.3	82.4	70.4	65.3	63.5	61.8	61.8
70°	2955.4	2447.1	492.8	173.4	121.9	77.3	63.5	60.1	56.7	56.7	56.7
72.5°	2739.0	2184.3	291.9	163.1	115.1	72.1	56.7	53.2	51.5	51.5	49.8
75°	2342.3	1859.8	225.0	132.2	92.7	61.8	49.8	46.4	44.6	44.6	42.9
77.5°	1729.3	1332.6	166.6	104.8	72.1	49.8	42.9	41.2	39.5	37.8	37.8
80°	676.6	583.9	113.3	77.3	53.2	39.5	36.1	34.3	32.6	30.9	30.9
82.5°	209.5	176.9	65.3	51.5	37.8	30.9	29.2	27.5	25.8	24.0	24.0
85°	91.0	87.6	42.9	32.6	25.8	20.6	20.6	18.9	17.2	15.5	15.5
87.5°	44.6	42.9	24.0	15.5	13.7	10.3	10.3	8.6	6.9	6.9	6.9
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)