

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: P675483

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

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675483
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL2 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

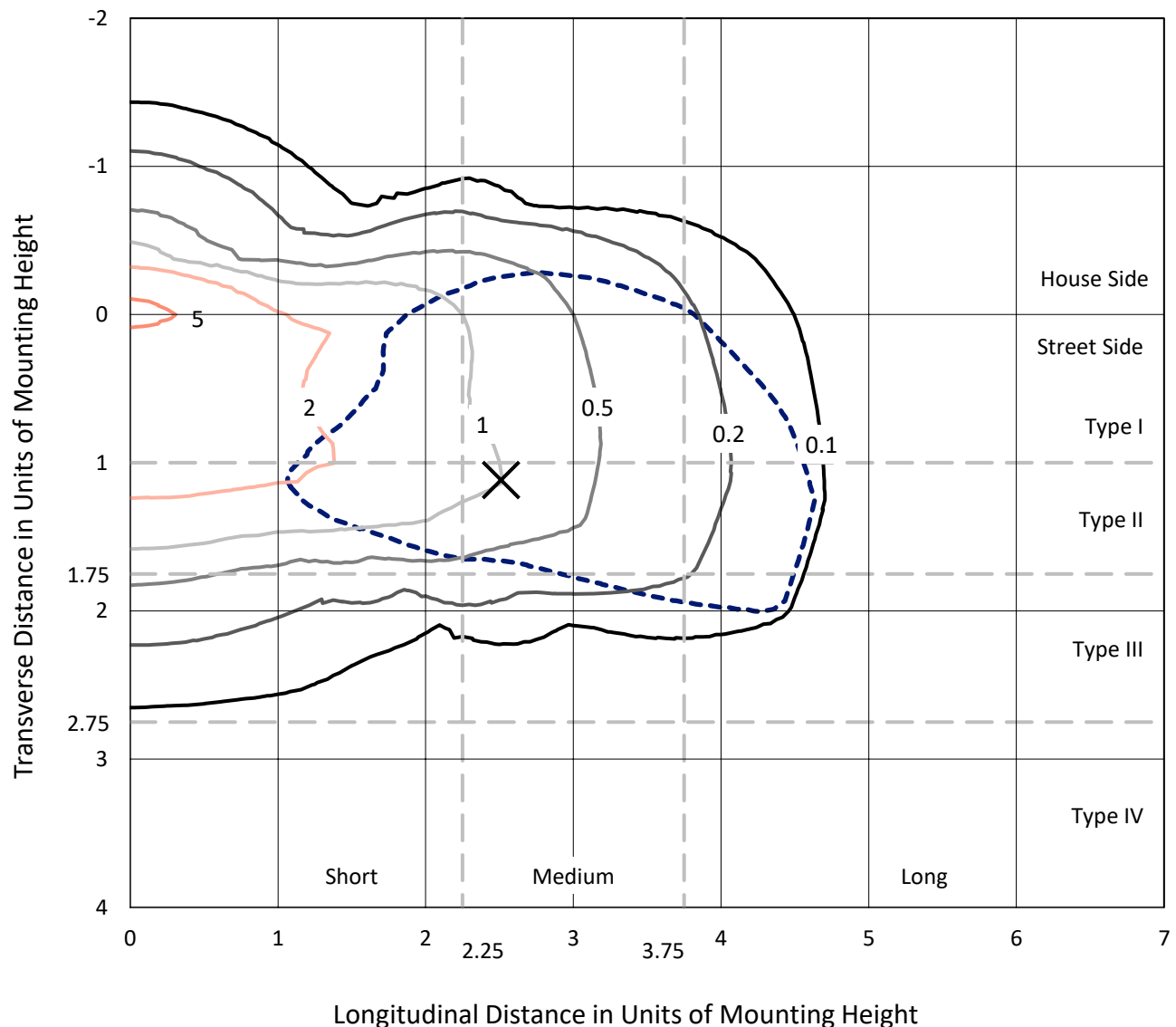
Lumens per Lamp: N/A
Luminaire Lumens: 5827.5 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

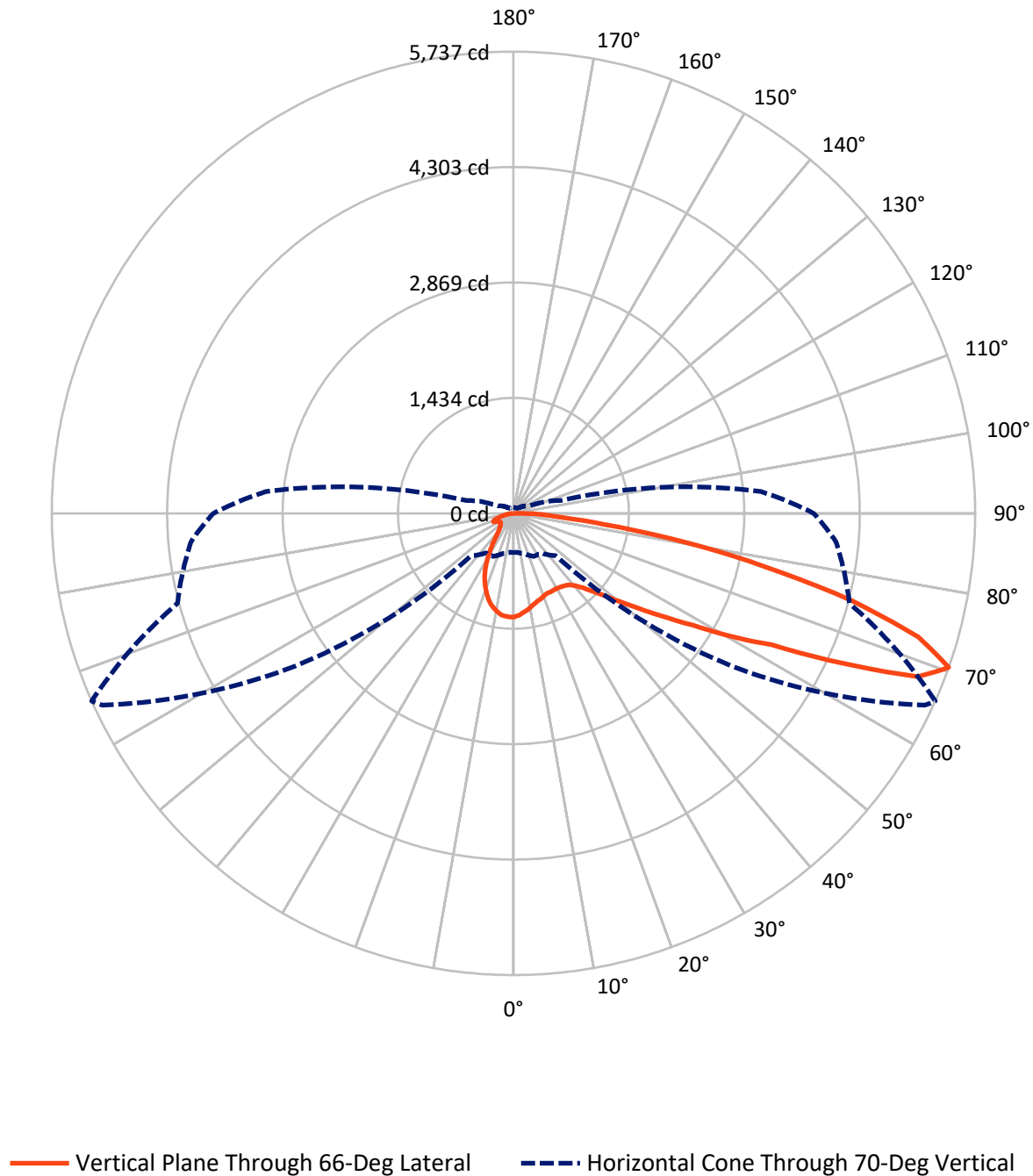
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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	1192.8	0.0	1192.8
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	4634.7	0.0	4634.7
	% Fixture	79.5	0.0	79.5
Total	Lumens	5827.5	0.0	5827.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	2.0
10°-20°	280.2	4.8
20°-30°	384.9	6.6
30°-40°	516.0	8.9
40°-50°	748.7	12.8
50°-60°	1138.1	19.5
60°-70°	1405.6	24.1
70°-80°	1045.2	17.9
80°-90°	195.0	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°	5827.5	100.0
0°-180°	5827.5	100.0

Coefficient of Utilization



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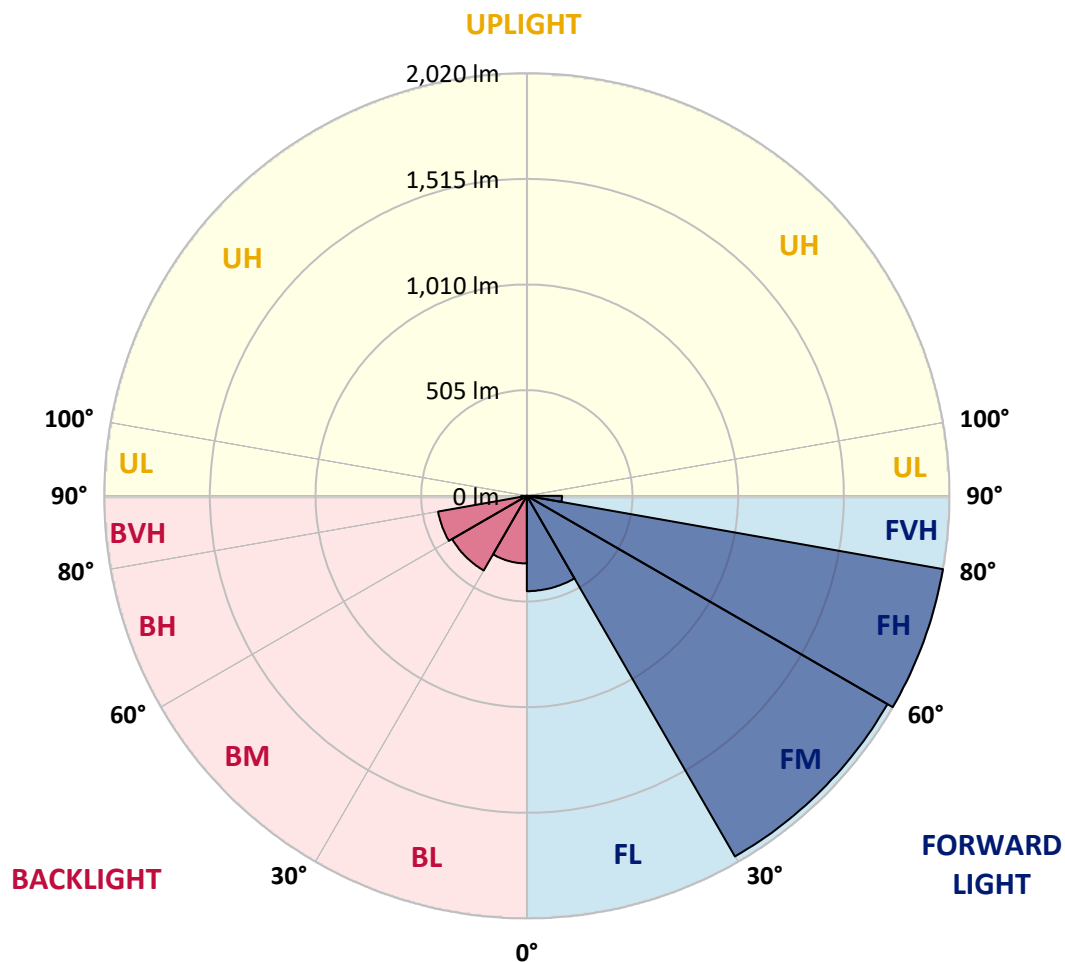
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.7	7.8			
FM	(30°-60°)	1990.8	34.2			
FH	(60°-80°)	2020.2	34.7			G2/5000
FVH	(80°-90°)	168.1	2.9			G2/225
BL	(0°-30°)	323.3	5.5	B1/500		
BM	(30°-60°)	412.0	7.1	B1/1000		
BH	(60°-80°)	430.6	7.4	B1/500		G1/500
BVH	(80°-90°)	26.9	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°	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5
2.5°	1224.6	1231.1	1233.3	1237.6	1248.5	1257.1	1270.1	1276.6	1270.1	1278.8	1278.8
5°	1140.1	1131.4	1153.1	1161.8	1174.8	1192.1	1222.5	1246.3	1239.8	1265.8	1287.5
7.5°	1068.6	1068.6	1075.1	1094.6	1109.7	1135.8	1168.3	1205.1	1216.0	1250.6	1283.1
10°	1003.5	1012.2	1012.2	1042.6	1051.2	1081.6	1135.8	1181.3	1183.4	1242.0	1287.5
12.5°	968.9	964.5	986.2	994.9	1020.9	1051.2	1094.6	1150.9	1153.1	1216.0	1278.8
15°	940.7	945.0	955.9	977.5	1001.4	1025.2	1066.4	1118.4	1129.3	1202.9	1274.5
17.5°	942.9	945.0	945.0	960.2	979.7	1007.9	1046.9	1107.6	1114.1	1185.6	1268.0
20°	955.9	947.2	953.7	960.2	973.2	999.2	1031.7	1083.7	1090.2	1183.4	1283.1
22.5°	984.0	977.5	975.4	973.2	971.0	986.2	1027.4	1070.7	1077.2	1172.6	1289.6
25°	1029.5	1027.4	1012.2	997.0	986.2	986.2	1018.7	1081.6	1079.4	1172.6	1294.0
27.5°	1083.7	1083.7	1081.6	1053.4	1020.9	1003.5	1025.2	1077.2	1075.1	1172.6	1304.8
30°	1157.4	1157.4	1150.9	1124.9	1066.4	1016.5	1029.5	1072.9	1079.4	1163.9	1296.1
32.5°	1237.6	1235.5	1242.0	1218.1	1157.4	1077.2	1055.6	1081.6	1088.1	1172.6	1298.3
35°	1296.1	1309.2	1330.8	1309.2	1248.5	1140.1	1092.4	1098.9	1103.2	1174.8	1307.0
37.5°	1363.3	1378.5	1408.9	1426.2	1361.2	1235.5	1150.9	1127.1	1127.1	1202.9	1309.2
40°	1460.9	1445.7	1497.7	1528.1	1502.1	1352.5	1242.0	1179.1	1181.3	1239.8	1337.3
42.5°	1532.4	1547.6	1601.8	1655.9	1623.4	1495.6	1341.7	1263.6	1263.6	1294.0	1380.7
45°	1612.6	1629.9	1705.8	1770.8	1794.7	1666.8	1478.2	1385.0	1380.7	1400.2	1458.7
47.5°	1701.5	1725.3	1812.0	1887.9	1950.7	1844.5	1653.8	1532.4	1530.2	1545.4	1588.8
50°	1803.3	1812.0	1883.5	2022.3	2148.0	2080.8	1868.4	1740.5	1729.6	1736.1	1794.7
52.5°	1833.7	1827.2	1909.5	2059.1	2288.9	2369.0	2161.0	1976.7	1972.4	1957.2	2033.1
55°	1723.1	1744.8	1825.0	2015.7	2403.7	2709.3	2481.8	2299.7	2260.7	2219.5	2310.5
57.5°	1502.1	1504.2	1595.3	1820.7	2314.9	2991.1	3025.8	2616.1	2618.3	2507.8	2611.8
60°	1168.3	1161.8	1233.3	1437.0	2061.3	3077.8	3619.7	3121.2	3099.5	2796.0	2891.4
62.5°	843.1	830.1	845.3	964.5	1541.1	2945.6	4202.7	3686.9	3595.8	3090.8	3164.5
65°	693.6	700.1	706.6	713.1	864.8	2429.7	4382.6	4610.2	4488.8	3435.4	3465.8
67.5°	574.4	578.7	606.9	645.9	641.6	1434.9	4174.6	5464.2	5418.7	3862.4	3725.9
70°	487.7	485.5	518.0	589.6	600.4	745.6	3305.4	5639.8	5737.3	4321.9	4020.7
72.5°	390.1	394.5	422.7	518.0	589.6	628.6	1903.0	5262.6	5260.5	4675.2	3862.4
75°	279.6	279.6	318.6	429.2	570.0	622.1	1053.4	4272.1	4352.3	4393.5	3350.9
77.5°	184.2	192.9	223.2	320.8	535.4	609.1	667.6	3106.0	3205.7	3285.9	2564.1
80°	125.7	130.0	149.6	223.2	453.0	613.4	546.2	2089.4	2128.5	1814.2	1040.4
82.5°	75.9	78.0	99.7	156.1	325.1	583.1	513.7	1153.1	1129.3	548.4	299.1
85°	41.2	43.3	62.9	104.0	214.6	509.4	505.0	565.7	526.7	201.6	125.7
87.5°	15.2	15.2	28.2	52.0	123.5	349.0	440.0	336.0	314.3	101.9	58.5
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°	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5	1287.5
2.5°	1289.6	1289.6	1289.6	1289.6	1287.5	1278.8	1285.3	1283.1	1270.1	1272.3	1263.6
5°	1285.3	1296.1	1289.6	1281.0	1270.1	1244.1	1235.5	1229.0	1211.6	1205.1	1211.6
7.5°	1296.1	1287.5	1283.1	1268.0	1224.6	1200.8	1170.4	1133.6	1107.6	1101.1	1107.6
10°	1294.0	1294.0	1274.5	1231.1	1189.9	1120.6	1081.6	1016.5	979.7	968.9	971.0
12.5°	1285.3	1291.8	1261.5	1192.1	1114.1	1029.5	958.0	888.7	823.6	797.6	793.3
15°	1294.0	1287.5	1233.3	1144.4	1036.1	919.0	815.0	713.1	652.4	613.4	604.7
17.5°	1281.0	1274.5	1196.4	1079.4	934.2	784.6	654.6	544.0	483.3	468.2	468.2
20°	1296.1	1255.0	1153.1	1001.4	828.0	637.2	489.8	407.5	392.3	392.3	396.6
22.5°	1294.0	1250.6	1116.2	925.5	700.1	481.2	364.1	340.3	342.5	359.8	357.6
25°	1281.0	1242.0	1064.2	841.0	565.7	362.0	301.3	294.8	309.9	329.5	327.3
27.5°	1278.8	1218.1	1016.5	741.3	431.3	286.1	262.3	262.3	277.4	294.8	292.6
30°	1265.8	1198.6	958.0	628.6	325.1	249.3	240.6	240.6	247.1	255.8	255.8
32.5°	1263.6	1172.6	893.0	511.5	260.1	225.4	221.1	223.2	223.2	227.6	225.4
35°	1246.3	1137.9	825.8	396.6	225.4	212.4	208.1	205.9	205.9	203.7	203.7
37.5°	1239.8	1116.2	756.4	307.8	210.2	201.6	197.2	190.7	188.6	188.6	186.4
40°	1246.3	1094.6	689.3	249.3	197.2	192.9	186.4	177.7	175.6	175.6	175.6
42.5°	1270.1	1092.4	619.9	216.7	190.7	184.2	175.6	166.9	164.7	166.9	164.7
45°	1324.3	1109.7	552.7	201.6	182.1	175.6	164.7	158.2	156.1	158.2	158.2
47.5°	1413.2	1157.4	492.0	192.9	175.6	166.9	156.1	149.6	149.6	149.6	149.6
50°	1560.6	1248.5	433.5	186.4	171.2	160.4	149.6	140.9	138.7	138.7	140.9
52.5°	1781.7	1404.5	385.8	182.1	164.7	151.7	140.9	134.4	130.0	127.9	130.0
55°	2048.3	1632.1	370.6	177.7	156.1	145.2	134.4	125.7	121.4	121.4	119.2
57.5°	2334.4	1883.5	396.6	173.4	149.6	136.6	125.7	117.0	112.7	110.5	110.5
60°	2644.3	2180.5	492.0	171.2	143.1	127.9	117.0	110.5	104.0	101.9	101.9
62.5°	2926.1	2449.2	663.2	169.1	138.7	119.2	108.4	99.7	95.4	93.2	93.2
65°	3246.9	2748.4	830.1	177.7	136.6	112.7	99.7	91.0	86.7	84.5	84.5
67.5°	3526.5	3008.5	927.7	199.4	143.1	104.0	88.9	82.4	80.2	78.0	78.0
70°	3730.2	3088.6	622.1	218.9	153.9	97.5	80.2	75.9	71.5	71.5	71.5
72.5°	3457.1	2757.0	368.5	205.9	145.2	91.0	71.5	67.2	65.0	65.0	62.9
75°	2956.4	2347.4	283.9	166.9	117.0	78.0	62.9	58.5	56.4	56.4	54.2
77.5°	2182.6	1682.0	210.2	132.2	91.0	62.9	54.2	52.0	49.9	47.7	47.7
80°	854.0	736.9	143.1	97.5	67.2	49.9	45.5	43.3	41.2	39.0	39.0
82.5°	264.4	223.2	82.4	65.0	47.7	39.0	36.8	34.7	32.5	30.3	30.3
85°	114.9	110.5	54.2	41.2	32.5	26.0	26.0	23.8	21.7	19.5	19.5
87.5°	56.4	54.2	30.3	19.5	17.3	13.0	13.0	10.8	8.7	8.7	8.7
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)