

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: P675481

Luminaire Tested: **CCW-SA-1F-840-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675481
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL2 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

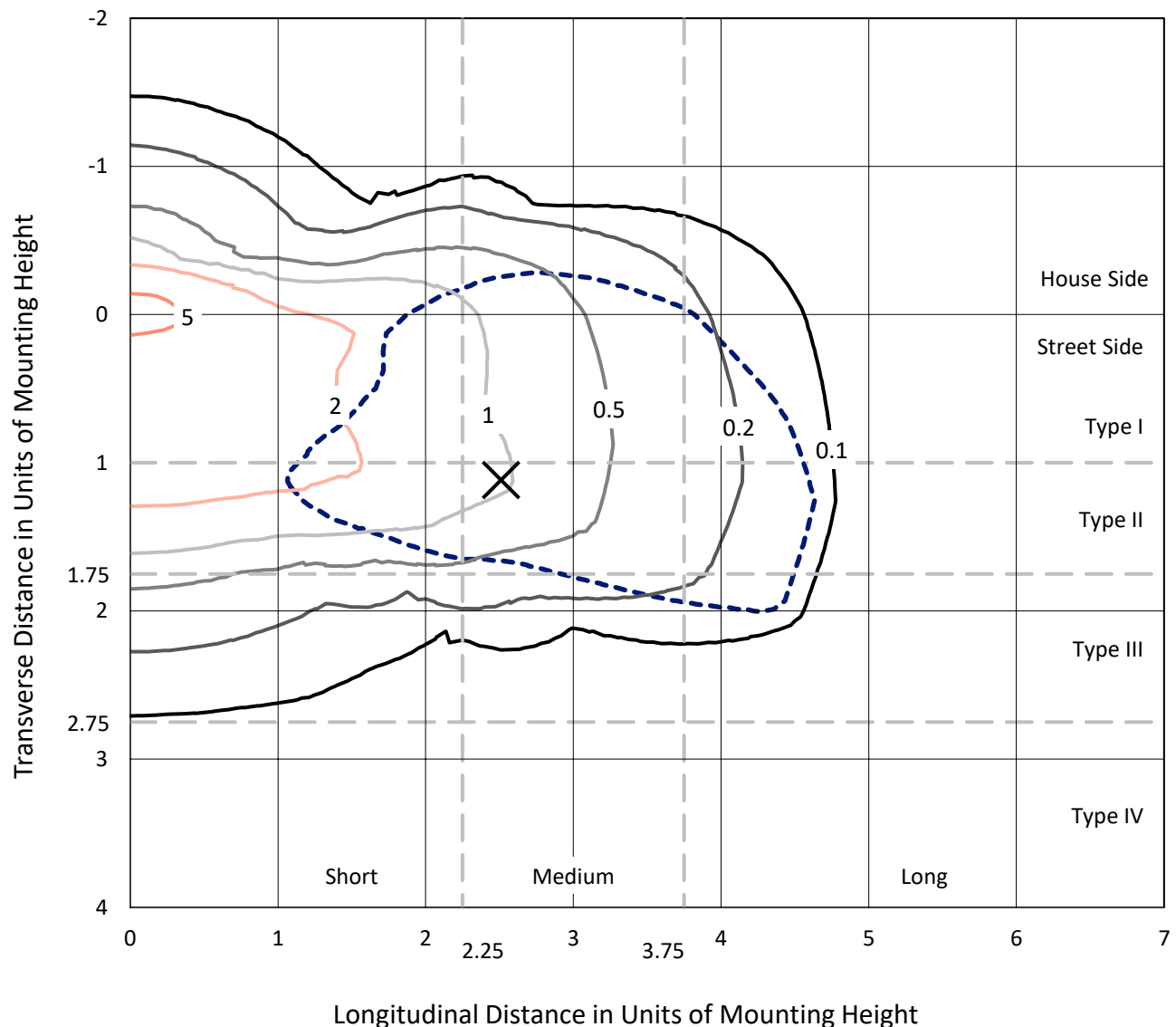
Lumens per Lamp: N/A
Luminaire Lumens: 6326.6 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

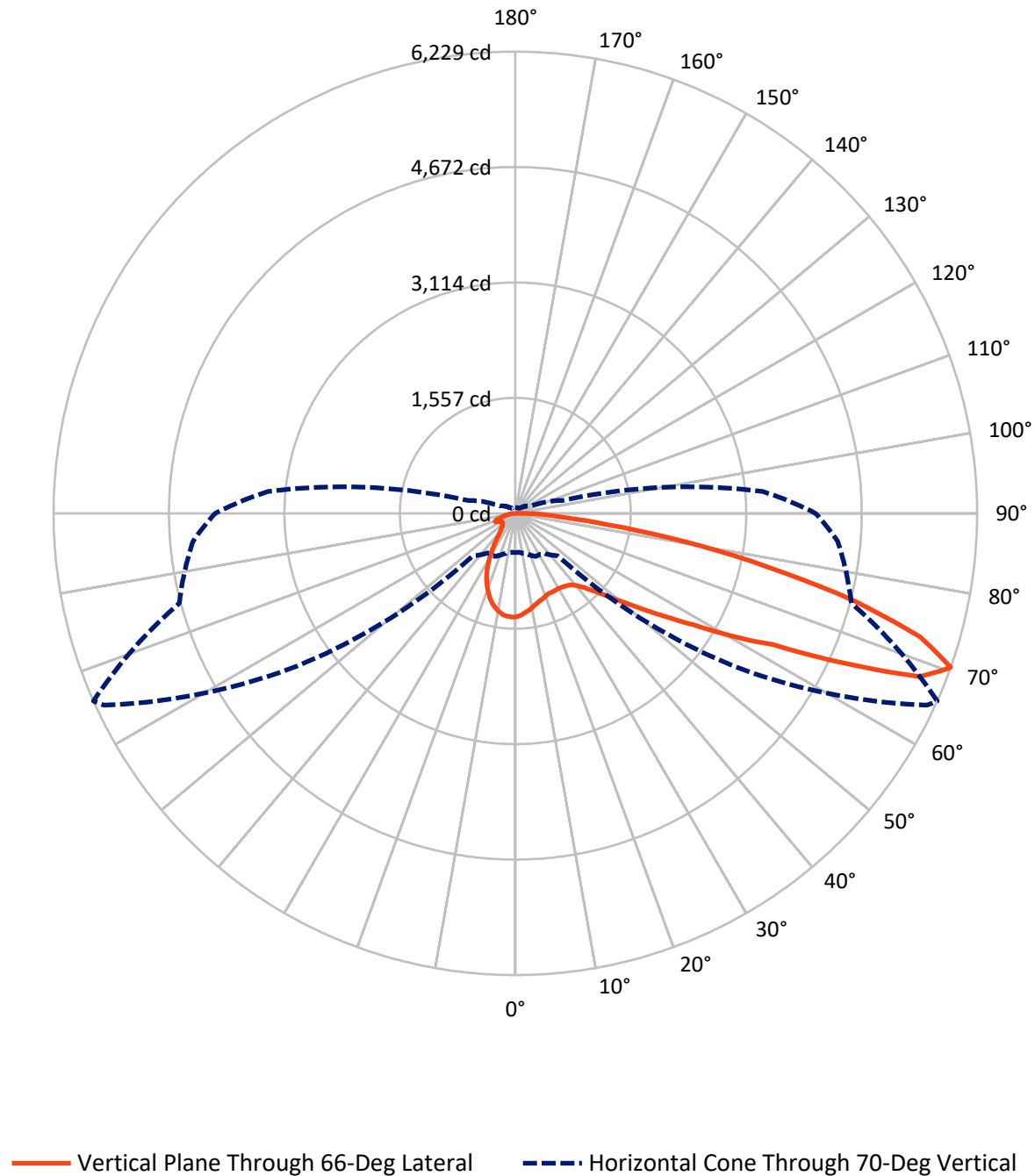
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 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	1295.0	0.0	1295.0
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	5031.6	0.0	5031.6
	% Fixture	79.5	0.0	79.5
Total	Lumens	6326.6	0.0	6326.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	2.0
10°-20°	304.2	4.8
20°-30°	417.8	6.6
30°-40°	560.2	8.9
40°-50°	812.8	12.8
50°-60°	1235.5	19.5
60°-70°	1525.9	24.1
70°-80°	1134.7	17.9
80°-90°	211.7	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°	6326.6	100.0
0°-180°	6326.6	100.0

Coefficient of Utilization



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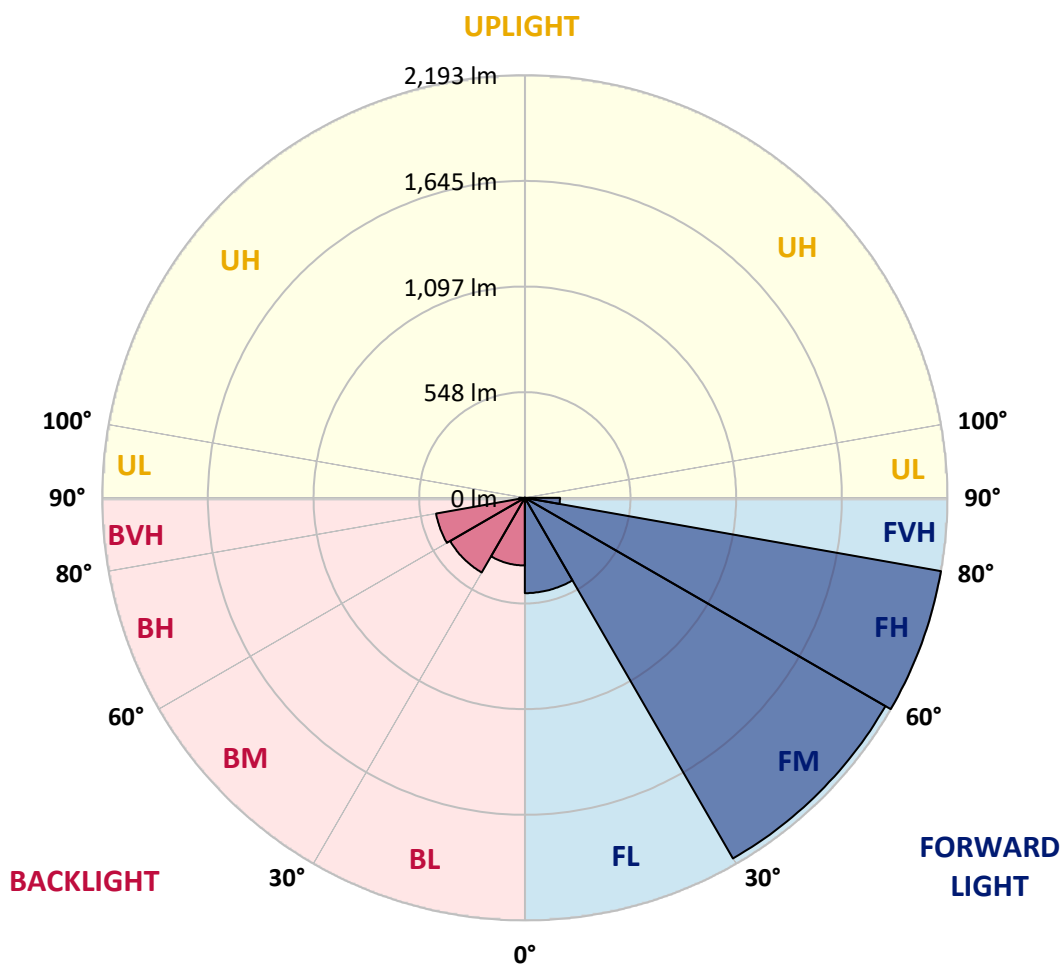
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.7	7.8			
FM	(30°-60°)	2161.3	34.2			
FH	(60°-80°)	2193.2	34.7			G2/5000
FVH	(80°-90°)	182.4	2.9			G2/225
BL	(0°-30°)	351.0	5.5	B1/500		
BM	(30°-60°)	447.3	7.1	B1/1000		
BH	(60°-80°)	467.5	7.4	B1/500		G1/500
BVH	(80°-90°)	29.2	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°	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7
2.5°	1329.5	1336.6	1338.9	1343.6	1355.4	1364.8	1378.9	1386.0	1378.9	1388.3	1388.3
5°	1237.7	1228.3	1251.9	1261.3	1275.4	1294.2	1327.2	1353.0	1346.0	1374.2	1397.7
7.5°	1160.1	1160.1	1167.1	1188.3	1204.8	1233.0	1268.3	1308.3	1320.1	1357.7	1393.0
10°	1089.5	1098.9	1098.9	1131.8	1141.3	1174.2	1233.0	1282.4	1284.8	1348.3	1397.7
12.5°	1051.8	1047.1	1070.7	1080.1	1108.3	1141.3	1188.3	1249.5	1251.9	1320.1	1388.3
15°	1021.2	1026.0	1037.7	1061.2	1087.1	1113.0	1157.7	1214.2	1226.0	1306.0	1383.6
17.5°	1023.6	1026.0	1026.0	1042.4	1063.6	1094.2	1136.5	1202.4	1209.5	1287.1	1376.6
20°	1037.7	1028.3	1035.4	1042.4	1056.5	1084.8	1120.1	1176.6	1183.6	1284.8	1393.0
22.5°	1068.3	1061.2	1058.9	1056.5	1054.2	1070.7	1115.4	1162.4	1169.5	1273.0	1400.1
25°	1117.7	1115.4	1098.9	1082.4	1070.7	1070.7	1106.0	1174.2	1171.8	1273.0	1404.8
27.5°	1176.6	1176.6	1174.2	1143.6	1108.3	1089.5	1113.0	1169.5	1167.1	1273.0	1416.6
30°	1256.6	1256.6	1249.5	1221.3	1157.7	1103.6	1117.7	1164.8	1171.8	1263.6	1407.2
32.5°	1343.6	1341.3	1348.3	1322.4	1256.6	1169.5	1146.0	1174.2	1181.3	1273.0	1409.5
35°	1407.2	1421.3	1444.8	1421.3	1355.4	1237.7	1186.0	1193.0	1197.7	1275.4	1418.9
37.5°	1480.1	1496.6	1529.5	1548.3	1477.7	1341.3	1249.5	1223.6	1223.6	1306.0	1421.3
40°	1586.0	1569.5	1626.0	1658.9	1630.7	1468.3	1348.3	1280.1	1282.4	1346.0	1451.9
42.5°	1663.6	1680.1	1738.9	1797.8	1762.5	1623.6	1456.6	1371.9	1371.9	1404.8	1498.9
45°	1750.7	1769.5	1851.9	1922.5	1948.4	1809.5	1604.8	1503.6	1498.9	1520.1	1583.6
47.5°	1847.2	1873.1	1967.2	2049.6	2117.8	2002.5	1795.4	1663.6	1661.3	1677.8	1724.8
50°	1957.8	1967.2	2044.8	2195.4	2331.9	2259.0	2028.4	1889.5	1877.8	1884.8	1948.4
52.5°	1990.7	1983.7	2073.1	2235.4	2484.9	2571.9	2346.0	2146.0	2141.3	2124.9	2207.2
55°	1870.7	1894.2	1981.3	2188.4	2609.6	2941.4	2694.3	2496.6	2454.3	2409.6	2508.4
57.5°	1630.7	1633.1	1731.9	1976.6	2513.1	3247.3	3284.9	2840.2	2842.5	2722.5	2835.5
60°	1268.3	1261.3	1338.9	1560.1	2237.8	3341.4	3929.7	3388.5	3364.9	3035.5	3139.0
62.5°	915.4	901.2	917.7	1047.1	1673.1	3197.9	4562.7	4002.6	3903.8	3355.5	3435.5
65°	753.0	760.1	767.1	774.2	938.9	2637.8	4758.0	5005.1	4873.3	3729.7	3762.6
67.5°	623.6	628.3	658.9	701.2	696.5	1557.8	4532.1	5932.2	5882.8	4193.2	4045.0
70°	529.4	527.1	562.4	640.0	651.8	809.5	3588.5	6122.8	6228.7	4692.1	4365.0
72.5°	423.6	428.3	458.9	562.4	640.0	682.4	2066.0	5713.3	5711.0	5075.6	4193.2
75°	303.6	303.6	345.9	465.9	618.9	675.3	1143.6	4638.0	4725.0	4769.7	3637.9
77.5°	200.0	209.4	242.4	348.3	581.2	661.2	724.8	3372.0	3480.2	3567.3	2783.7
80°	136.5	141.2	162.4	242.4	491.8	665.9	593.0	2268.4	2310.7	1969.5	1129.5
82.5°	82.4	84.7	108.2	169.4	353.0	633.0	557.7	1251.9	1226.0	595.3	324.7
85°	44.7	47.1	68.2	112.9	233.0	553.0	548.3	614.2	571.8	218.8	136.5
87.5°	16.5	16.5	30.6	56.5	134.1	378.8	477.7	364.7	341.2	110.6	63.5
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°	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7
2.5°	1400.1	1400.1	1400.1	1400.1	1397.7	1388.3	1395.4	1393.0	1378.9	1381.3	1371.9
5°	1395.4	1407.2	1400.1	1390.7	1378.9	1350.7	1341.3	1334.2	1315.4	1308.3	1315.4
7.5°	1407.2	1397.7	1393.0	1376.6	1329.5	1303.6	1270.7	1230.7	1202.4	1195.4	1202.4
10°	1404.8	1404.8	1383.6	1336.6	1291.9	1216.6	1174.2	1103.6	1063.6	1051.8	1054.2
12.5°	1395.4	1402.4	1369.5	1294.2	1209.5	1117.7	1040.1	964.8	894.2	865.9	861.2
15°	1404.8	1397.7	1338.9	1242.4	1124.8	997.7	884.8	774.2	708.3	665.9	656.5
17.5°	1390.7	1383.6	1298.9	1171.8	1014.2	851.8	710.6	590.6	524.7	508.3	508.3
20°	1407.2	1362.4	1251.9	1087.1	898.9	691.8	531.8	442.4	425.9	425.9	430.6
22.5°	1404.8	1357.7	1211.8	1004.8	760.1	522.4	395.3	369.4	371.8	390.6	388.3
25°	1390.7	1348.3	1155.4	913.0	614.2	393.0	327.1	320.0	336.5	357.7	355.3
27.5°	1388.3	1322.4	1103.6	804.8	468.3	310.6	284.7	284.7	301.2	320.0	317.7
30°	1374.2	1301.3	1040.1	682.4	353.0	270.6	261.2	261.2	268.3	277.7	277.7
32.5°	1371.9	1273.0	969.5	555.3	282.4	244.7	240.0	242.4	242.4	247.1	244.7
35°	1353.0	1235.4	896.5	430.6	244.7	230.6	225.9	223.5	223.5	221.2	221.2
37.5°	1346.0	1211.8	821.2	334.1	228.3	218.8	214.1	207.1	204.7	204.7	202.4
40°	1353.0	1188.3	748.3	270.6	214.1	209.4	202.4	193.0	190.6	190.6	190.6
42.5°	1378.9	1186.0	673.0	235.3	207.1	200.0	190.6	181.2	178.8	181.2	178.8
45°	1437.7	1204.8	600.0	218.8	197.7	190.6	178.8	171.8	169.4	171.8	171.8
47.5°	1534.2	1256.6	534.2	209.4	190.6	181.2	169.4	162.4	162.4	162.4	162.4
50°	1694.2	1355.4	470.6	202.4	185.9	174.1	162.4	153.0	150.6	150.6	153.0
52.5°	1934.3	1524.8	418.9	197.7	178.8	164.7	153.0	145.9	141.2	138.8	141.2
55°	2223.7	1771.9	402.4	193.0	169.4	157.7	145.9	136.5	131.8	131.8	129.4
57.5°	2534.3	2044.8	430.6	188.2	162.4	148.2	136.5	127.1	122.4	120.0	120.0
60°	2870.8	2367.2	534.2	185.9	155.3	138.8	127.1	120.0	112.9	110.6	110.6
62.5°	3176.7	2659.0	720.0	183.5	150.6	129.4	117.7	108.2	103.5	101.2	101.2
65°	3524.9	2983.7	901.2	193.0	148.2	122.4	108.2	98.8	94.1	91.8	91.8
67.5°	3828.5	3266.1	1007.1	216.5	155.3	112.9	96.5	89.4	87.1	84.7	84.7
70°	4049.7	3353.2	675.3	237.7	167.1	105.9	87.1	82.4	77.7	77.7	77.7
72.5°	3753.2	2993.1	400.0	223.5	157.7	98.8	77.7	72.9	70.6	70.6	68.2
75°	3209.6	2548.4	308.3	181.2	127.1	84.7	68.2	63.5	61.2	61.2	58.8
77.5°	2369.6	1826.0	228.3	143.5	98.8	68.2	58.8	56.5	54.1	51.8	51.8
80°	927.1	800.1	155.3	105.9	72.9	54.1	49.4	47.1	44.7	42.4	42.4
82.5°	287.1	242.4	89.4	70.6	51.8	42.4	40.0	37.6	35.3	32.9	32.9
85°	124.7	120.0	58.8	44.7	35.3	28.2	28.2	25.9	23.5	21.2	21.2
87.5°	61.2	58.8	32.9	21.2	18.8	14.1	14.1	11.8	9.4	9.4	9.4
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)