

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: P675758

Luminaire Tested: **CCW-SA-1F-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675758
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

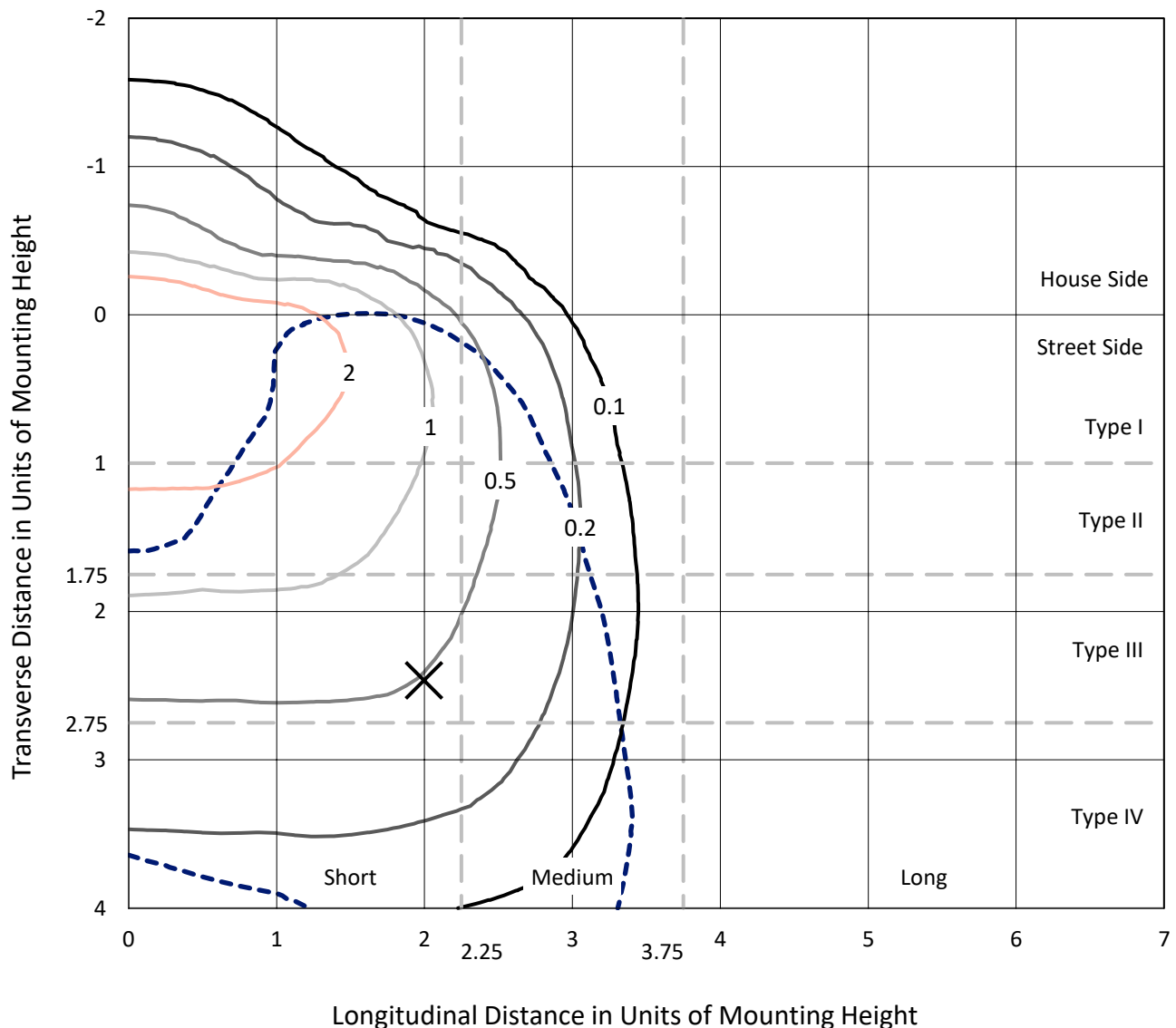
Lumens per Lamp: N/A
Luminaire Lumens: 6054 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

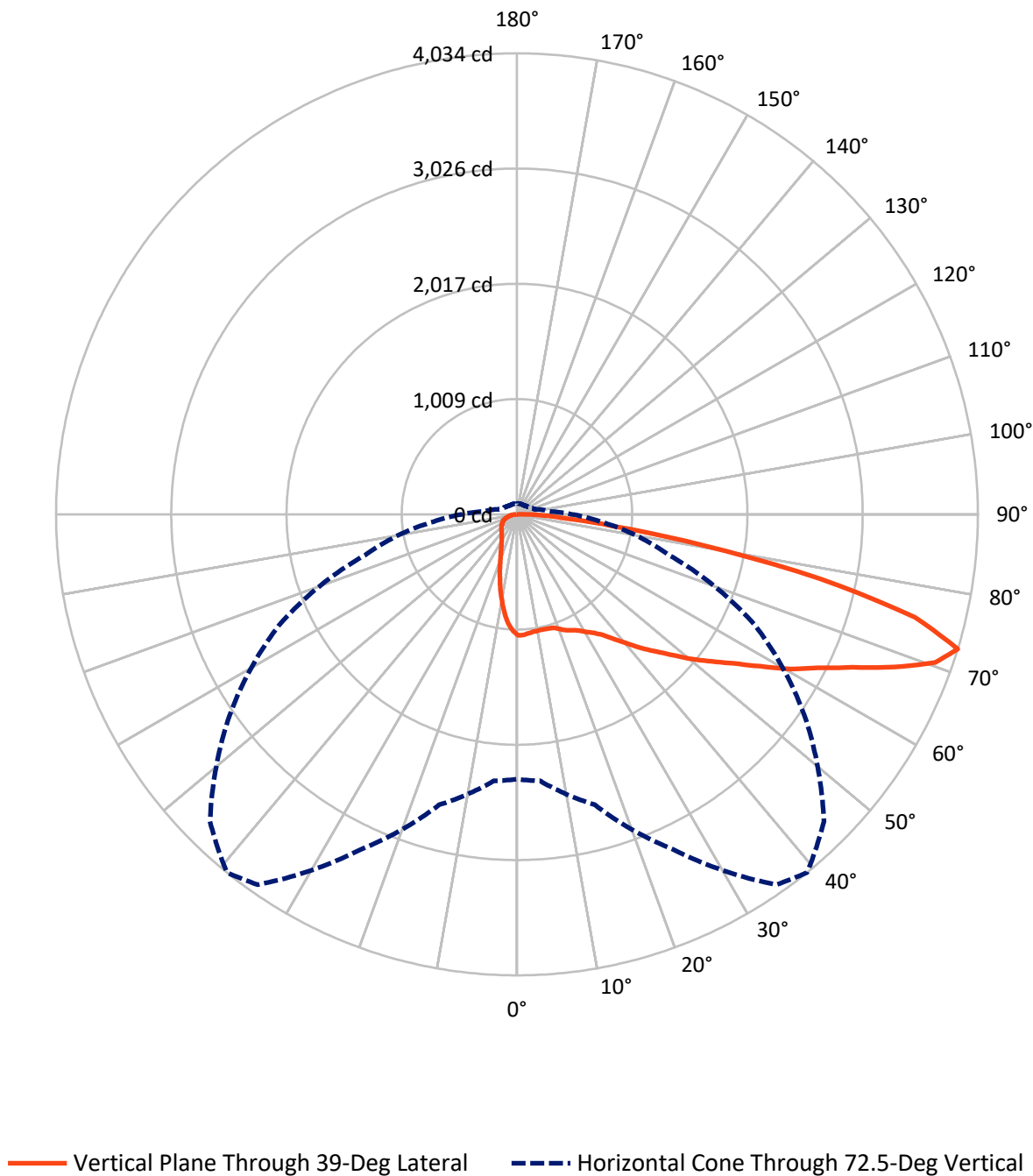
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.7	0.0	899.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5154.3	0.0	5154.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	6054.0	0.0	6054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.5
10°-20°	239.0	3.9
20°-30°	364.1	6.0
30°-40°	532.6	8.8
40°-50°	815.4	13.5
50°-60°	1196.0	19.8
60°-70°	1525.3	25.2
70°-80°	1102.0	18.2
80°-90°	185.9	3.1
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°	6054.0	100.0
0°-180°	6054.0	100.0

Coefficient of Utilization



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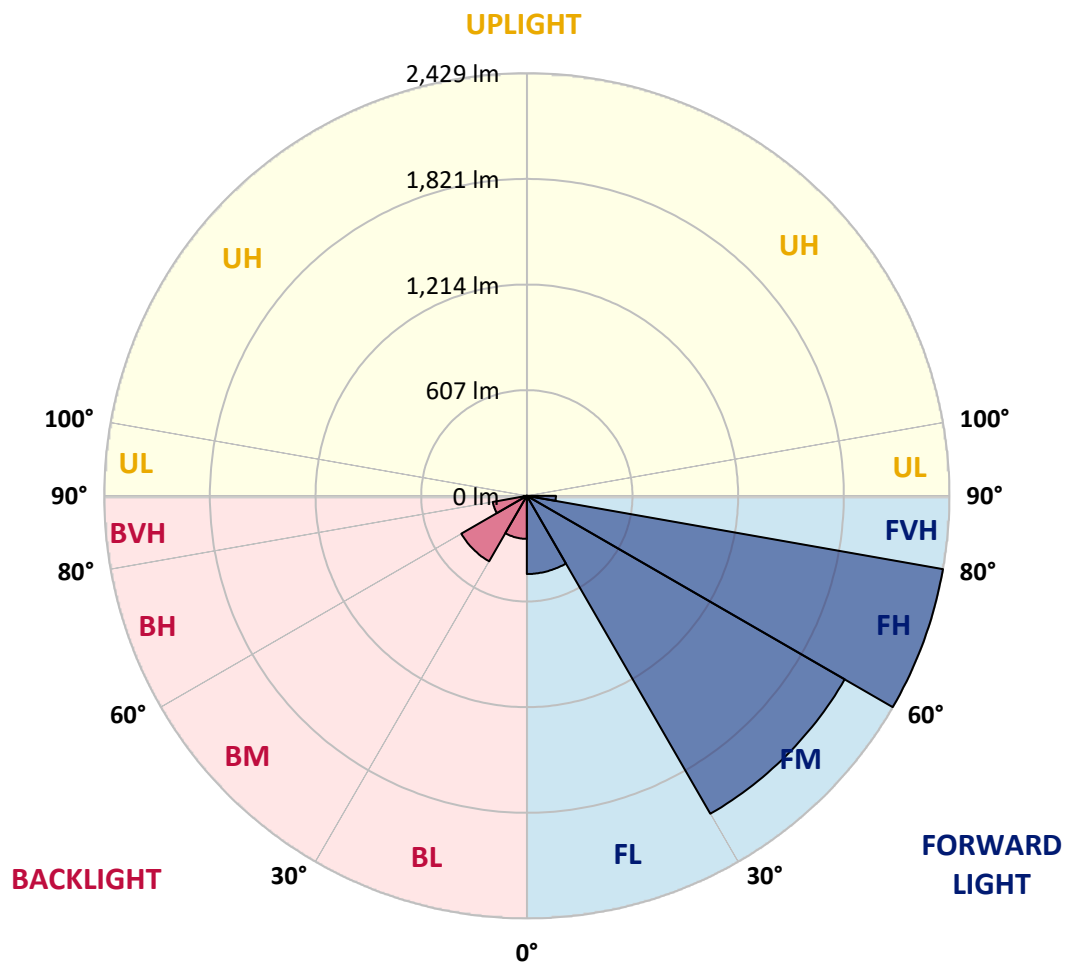
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.3	7.4			
FM	(30°-60°)	2109.4	34.8			
FH	(60°-80°)	2428.5	40.1			G2/5000
FVH	(80°-90°)	167.1	2.8			G2/225
BL	(0°-30°)	247.4	4.1	B1/500		
BM	(30°-60°)	434.7	7.2	B1/1000		
BH	(60°-80°)	198.8	3.3	B1/500		G1/500
BVH	(80°-90°)	18.8	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1075.6	1077.9	1073.4	1068.8	1066.5	1057.4	1066.5	1062.0	1057.4	1057.4	1057.4
5°	1062.0	1064.3	1064.3	1059.7	1062.0	1046.1	1043.8	1046.1	1039.3	1034.7	1032.4
7.5°	1041.5	1046.1	1055.2	1052.9	1043.8	1037.0	1039.3	1037.0	1025.6	1018.8	1000.6
10°	1025.6	1030.2	1034.7	1039.3	1037.0	1034.7	1032.4	1023.3	1021.1	1005.1	987.0
12.5°	1009.7	1009.7	1012.0	1030.2	1032.4	1032.4	1018.8	1018.8	1012.0	1009.7	982.4
15°	993.8	1000.6	1018.8	1023.3	1032.4	1037.0	1030.2	1030.2	1018.8	1002.9	982.4
17.5°	998.3	1009.7	1027.9	1039.3	1043.8	1043.8	1052.9	1046.1	1030.2	1021.1	1000.6
20°	1021.1	1023.3	1046.1	1066.5	1071.1	1071.1	1062.0	1055.2	1043.8	1027.9	1000.6
22.5°	1034.7	1050.6	1077.9	1089.3	1102.9	1102.9	1091.6	1075.6	1059.7	1043.8	1014.2
25°	1093.8	1096.1	1107.5	1125.7	1132.5	1123.4	1112.0	1093.8	1073.4	1057.4	1030.2
27.5°	1134.8	1146.1	1159.8	1168.9	1157.5	1150.7	1141.6	1121.1	1105.2	1091.6	1052.9
30°	1209.8	1196.2	1205.3	1209.8	1189.3	1193.9	1168.9	1150.7	1132.5	1132.5	1089.3
32.5°	1255.3	1266.7	1257.6	1255.3	1239.4	1237.1	1221.2	1200.7	1189.3	1203.0	1143.9
35°	1334.9	1328.1	1328.1	1325.8	1307.6	1296.2	1296.2	1259.8	1271.2	1300.8	1228.0
37.5°	1375.8	1373.5	1387.2	1398.6	1380.4	1387.2	1380.4	1364.5	1369.0	1421.3	1332.6
40°	1416.8	1432.7	1460.0	1464.5	1475.9	1485.0	1480.4	1478.2	1496.3	1580.5	1473.6
42.5°	1455.4	1469.1	1510.0	1546.4	1573.7	1603.2	1605.5	1605.5	1664.6	1785.2	1644.2
45°	1505.4	1516.8	1573.7	1646.4	1691.9	1712.4	1730.6	1751.0	1830.6	1973.9	1826.1
47.5°	1573.7	1582.8	1651.0	1741.9	1830.6	1842.0	1878.4	1901.1	2021.7	2167.2	2012.6
50°	1671.5	1664.6	1719.2	1851.1	1937.5	1992.1	2044.4	2085.3	2203.6	2362.8	2158.1
52.5°	1751.0	1751.0	1792.0	1967.1	2085.3	2137.6	2192.2	2249.1	2385.5	2558.3	2276.4
55°	1887.5	1873.8	1898.9	2080.8	2251.3	2301.4	2406.0	2453.7	2585.6	2703.9	2376.4
57.5°	1980.7	1987.6	2017.1	2230.9	2446.9	2508.3	2612.9	2647.0	2763.0	2856.3	2449.2
60°	2103.5	2080.8	2144.5	2396.9	2663.0	2749.4	2835.8	2856.3	2942.7	2954.0	2483.3
62.5°	2221.8	2217.2	2271.8	2562.9	2894.9	2956.3	3045.0	3067.7	3104.1	3031.4	2435.5
65°	2294.6	2324.1	2426.4	2744.8	3158.7	3226.9	3315.6	3270.1	3229.2	2963.1	2201.3
67.5°	2394.6	2408.3	2565.2	2942.7	3463.4	3565.8	3643.1	3463.4	3158.7	2683.4	1853.4
70°	2417.4	2453.7	2658.4	3149.6	3777.3	3881.9	3886.4	3397.5	2901.7	2183.1	1344.0
72.5°	2317.3	2342.3	2631.1	3236.0	3956.9	4034.2	3800.0	3072.3	2299.1	1375.8	732.3
75°	1948.9	2019.4	2290.0	2970.0	3627.2	3597.6	3220.1	2344.6	1380.4	609.5	309.3
77.5°	1357.6	1359.9	1641.9	2160.4	2715.3	2708.4	2296.8	1359.9	591.3	245.6	181.9
80°	602.6	645.8	816.4	1164.3	1648.7	1648.7	1339.4	675.4	295.6	159.2	125.1
82.5°	354.8	368.4	436.6	543.5	802.8	846.0	641.3	450.3	202.4	100.1	77.3
85°	261.5	284.3	325.2	327.5	379.8	386.6	354.8	391.1	138.7	54.6	63.7
87.5°	195.6	209.2	259.2	216.0	202.4	191.0	218.3	400.2	52.3	27.3	20.5
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°	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1048.4	1048.4	1043.8	1034.7	1034.7	1016.5	1021.1	1025.6	1014.2	1014.2	1016.5
5°	1032.4	1023.3	1012.0	998.3	989.2	964.2	959.7	943.7	941.5	936.9	930.1
7.5°	1000.6	987.0	966.5	946.0	916.5	893.7	866.4	843.7	834.6	827.8	825.5
10°	971.0	968.8	934.6	893.7	848.2	805.0	764.1	734.5	716.3	705.0	702.7
12.5°	971.0	952.8	905.1	848.2	782.3	718.6	666.3	625.4	600.4	582.2	575.3
15°	966.5	948.3	884.6	798.2	723.2	636.7	564.0	520.8	484.4	466.2	468.5
17.5°	971.0	943.7	855.1	761.8	657.2	564.0	477.6	425.3	388.9	375.2	373.0
20°	973.3	939.2	832.3	711.8	589.0	484.4	402.5	352.5	325.2	316.1	316.1
22.5°	968.8	925.6	798.2	652.7	529.9	418.4	350.2	307.0	288.8	277.4	282.0
25°	989.2	923.3	766.4	602.6	461.6	363.9	311.5	279.7	268.3	261.5	263.8
27.5°	993.8	923.3	741.4	545.8	402.5	322.9	282.0	261.5	252.4	247.9	245.6
30°	1012.0	927.8	711.8	488.9	354.8	291.1	259.2	247.9	241.1	238.8	238.8
32.5°	1062.0	941.5	680.0	441.2	313.8	263.8	243.3	234.2	229.7	227.4	229.7
35°	1121.1	977.9	645.8	391.1	284.3	245.6	229.7	222.9	220.6	220.6	220.6
37.5°	1212.1	1032.4	616.3	350.2	259.2	227.4	216.0	213.8	211.5	213.8	213.8
40°	1316.7	1091.6	589.0	318.4	241.1	216.0	204.7	204.7	202.4	204.7	206.9
42.5°	1437.2	1164.3	561.7	286.5	225.1	206.9	197.8	195.6	193.3	197.8	200.1
45°	1603.2	1264.4	543.5	268.3	213.8	197.8	188.7	188.7	186.5	186.5	191.0
47.5°	1741.9	1359.9	543.5	250.1	206.9	191.0	181.9	181.9	177.4	179.7	179.7
50°	1857.9	1441.8	554.9	245.6	197.8	184.2	177.4	172.8	170.6	170.6	170.6
52.5°	1935.2	1491.8	564.0	241.1	193.3	175.1	170.6	168.3	163.7	161.5	163.7
55°	2012.6	1525.9	566.2	241.1	186.5	166.0	161.5	161.5	156.9	154.6	154.6
57.5°	2042.1	1512.3	534.4	236.5	181.9	159.2	154.6	152.4	150.1	147.8	147.8
60°	2028.5	1462.2	463.9	225.1	177.4	154.6	145.5	145.5	145.5	141.0	143.3
62.5°	1935.2	1291.7	373.0	206.9	170.6	145.5	136.4	141.0	141.0	138.7	138.7
65°	1689.6	1066.5	302.5	191.0	161.5	138.7	129.6	136.4	138.7	136.4	134.2
67.5°	1350.8	820.9	250.1	172.8	150.1	127.3	120.5	127.3	129.6	127.3	127.3
70°	927.8	529.9	202.4	154.6	134.2	116.0	109.2	113.7	113.7	116.0	116.0
72.5°	479.8	286.5	166.0	131.9	116.0	104.6	97.8	97.8	95.5	95.5	95.5
75°	238.8	195.6	138.7	111.4	97.8	88.7	84.1	79.6	79.6	79.6	79.6
77.5°	166.0	150.1	113.7	88.7	79.6	72.8	72.8	65.9	65.9	65.9	65.9
80°	125.1	118.3	86.4	68.2	61.4	56.9	56.9	54.6	54.6	52.3	52.3
82.5°	88.7	95.5	65.9	50.0	45.5	43.2	43.2	40.9	40.9	36.4	36.4
85°	70.5	79.6	50.0	36.4	34.1	29.6	29.6	27.3	27.3	25.0	22.7
87.5°	20.5	43.2	20.5	13.6	13.6	13.6	13.6	11.4	11.4	9.1	9.1
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)