

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: P675782

Luminaire Tested: **CCW-SA-2B-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675782
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

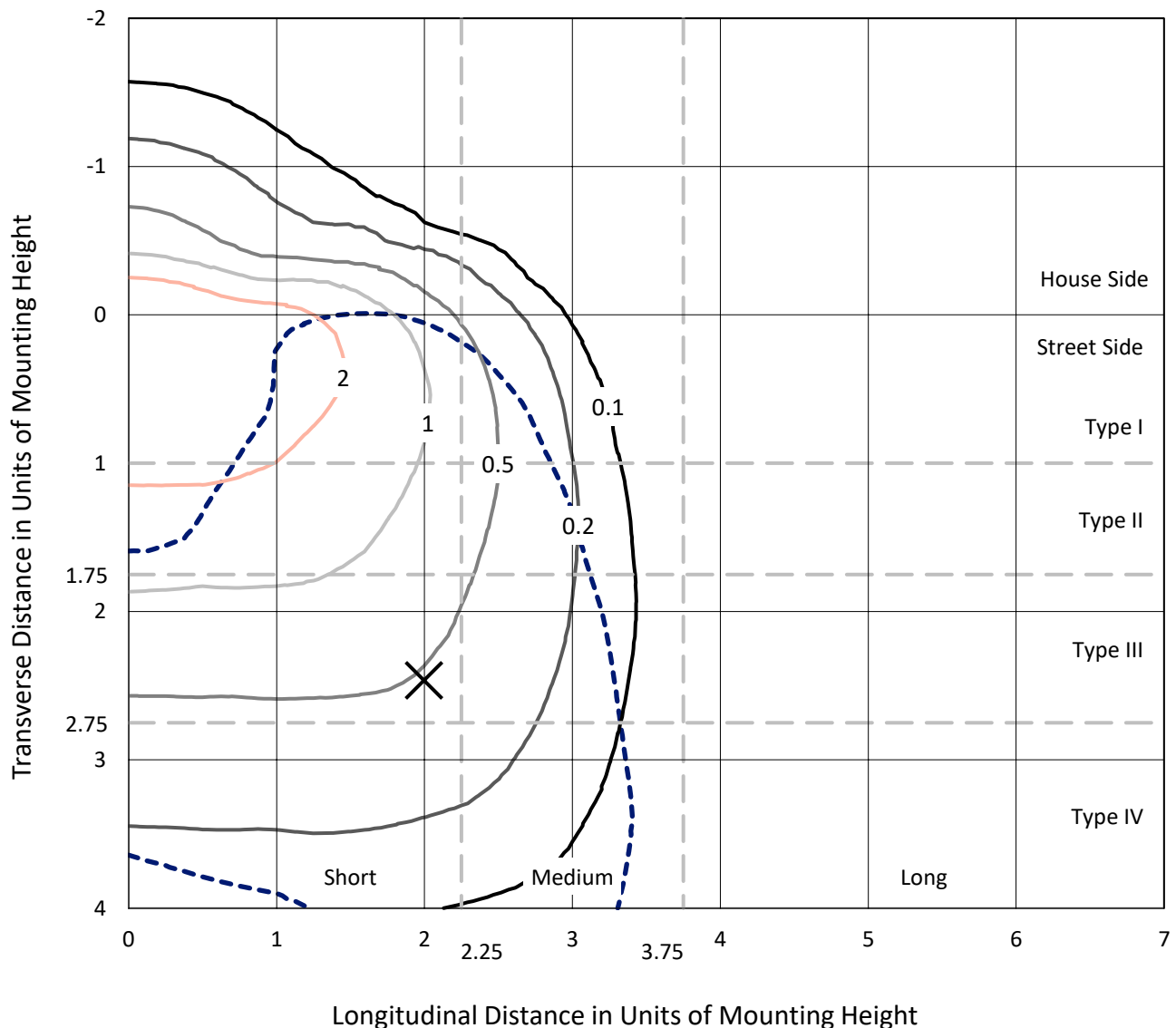
Lumens per Lamp: N/A
Luminaire Lumens: 5905.3 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

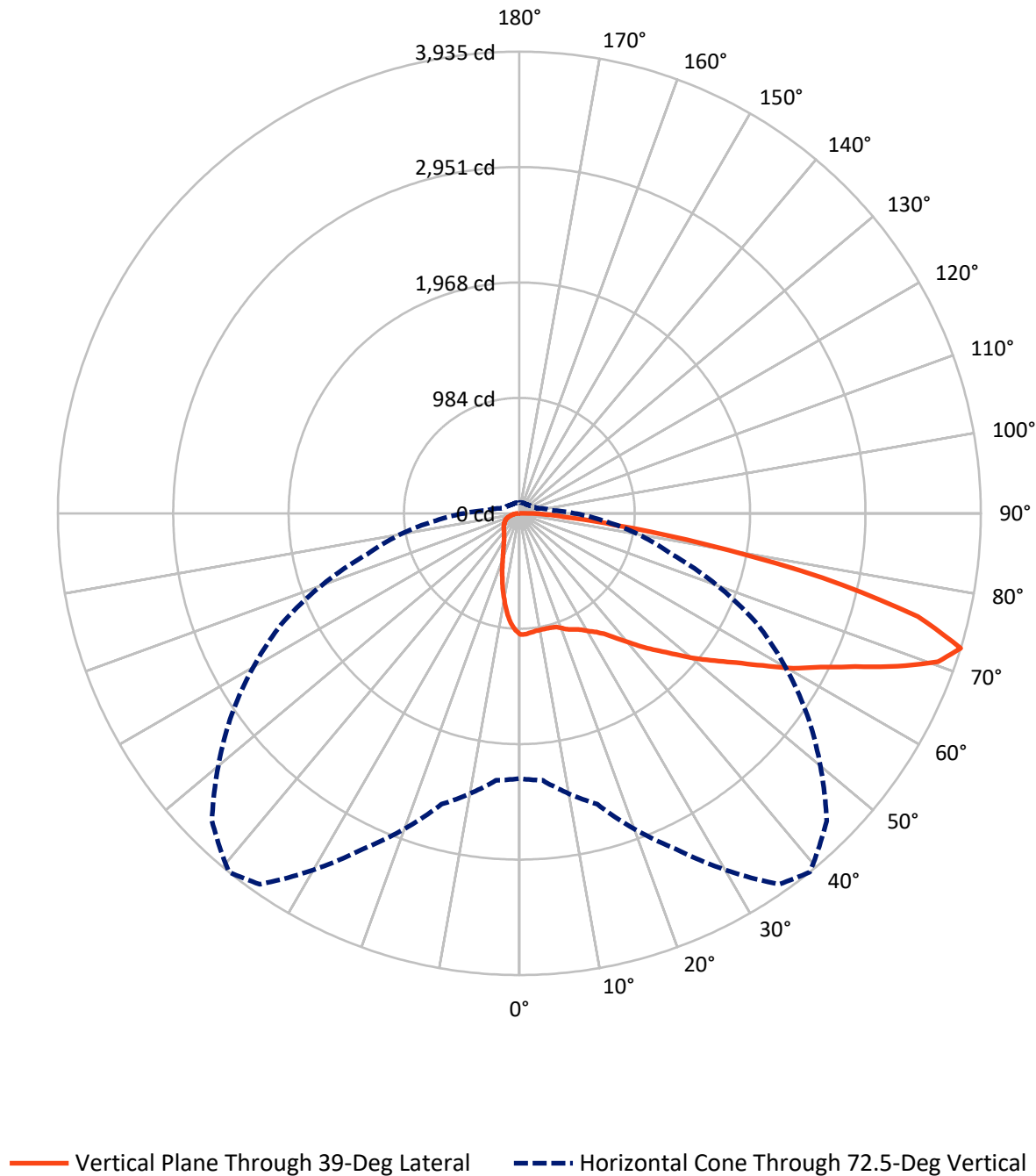
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 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	877.6	0.0	877.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5027.7	0.0	5027.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	5905.3	0.0	5905.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.5
10°-20°	233.1	3.9
20°-30°	355.2	6.0
30°-40°	519.5	8.8
40°-50°	795.4	13.5
50°-60°	1166.6	19.8
60°-70°	1487.8	25.2
70°-80°	1075.0	18.2
80°-90°	181.3	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°	5905.3	100.0
0°-180°	5905.3	100.0

Coefficient of Utilization



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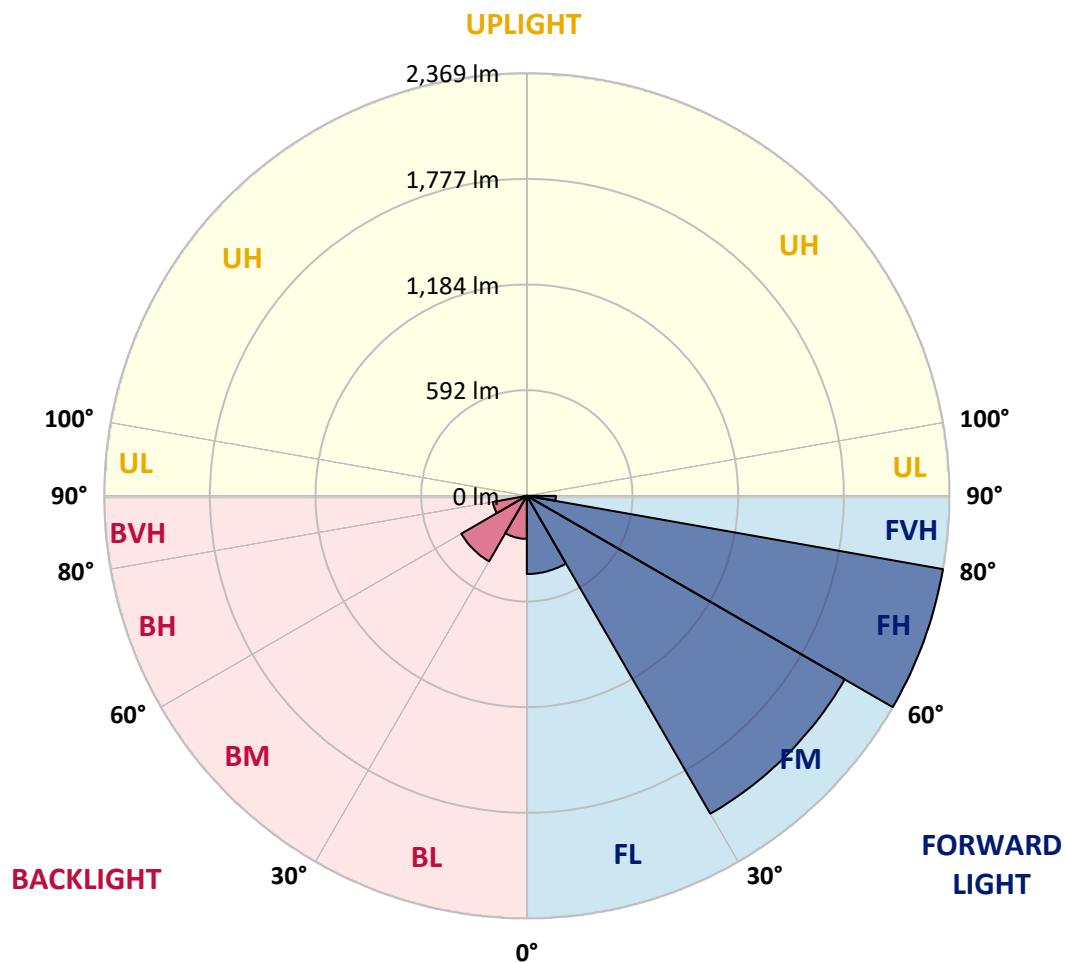
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.3	7.4			
FM	(30°-60°)	2057.6	34.8			
FH	(60°-80°)	2368.9	40.1			G2/5000
FVH	(80°-90°)	163.0	2.8			G2/225
BL	(0°-30°)	241.4	4.1	B1/500		
BM	(30°-60°)	424.0	7.2	B1/1000		
BH	(60°-80°)	193.9	3.3	B1/500		G1/500
BVH	(80°-90°)	18.4	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°	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7
2.5°	1049.2	1051.4	1047.0	1042.6	1040.4	1031.5	1040.4	1035.9	1031.5	1031.5	1031.5
5°	1035.9	1038.1	1038.1	1033.7	1035.9	1020.4	1018.2	1020.4	1013.7	1009.3	1007.1
7.5°	1016.0	1020.4	1029.3	1027.0	1018.2	1011.5	1013.7	1011.5	1000.4	993.8	976.0
10°	1000.4	1004.9	1009.3	1013.7	1011.5	1009.3	1007.1	998.2	996.0	980.5	962.7
12.5°	984.9	984.9	987.1	1004.9	1007.1	1007.1	993.8	993.8	987.1	984.9	958.3
15°	969.4	976.0	993.8	998.2	1007.1	1011.5	1004.9	1004.9	993.8	978.2	958.3
17.5°	973.8	984.9	1002.6	1013.7	1018.2	1018.2	1027.0	1020.4	1004.9	996.0	976.0
20°	996.0	998.2	1020.4	1040.4	1044.8	1044.8	1035.9	1029.3	1018.2	1002.6	976.0
22.5°	1009.3	1024.8	1051.4	1062.5	1075.8	1075.8	1064.8	1049.2	1033.7	1018.2	989.3
25°	1067.0	1069.2	1080.3	1098.0	1104.7	1095.8	1084.7	1067.0	1047.0	1031.5	1004.9
27.5°	1106.9	1118.0	1131.3	1140.2	1129.1	1122.4	1113.6	1093.6	1078.1	1064.8	1027.0
30°	1180.1	1166.8	1175.7	1180.1	1160.1	1164.6	1140.2	1122.4	1104.7	1104.7	1062.5
32.5°	1224.5	1235.6	1226.7	1224.5	1208.9	1206.7	1191.2	1171.2	1160.1	1173.4	1115.8
35°	1302.1	1295.4	1295.4	1293.2	1275.5	1264.4	1264.4	1228.9	1240.0	1268.8	1197.8
37.5°	1342.0	1339.8	1353.1	1364.2	1346.5	1353.1	1346.5	1330.9	1335.4	1386.4	1299.9
40°	1382.0	1397.5	1424.1	1428.5	1439.6	1448.5	1444.1	1441.9	1459.6	1541.7	1437.4
42.5°	1419.7	1433.0	1472.9	1508.4	1535.0	1563.9	1566.1	1566.1	1623.7	1741.3	1603.8
45°	1468.5	1479.6	1535.0	1606.0	1650.4	1670.3	1688.1	1708.0	1785.7	1925.4	1781.2
47.5°	1535.0	1543.9	1610.4	1699.2	1785.7	1796.8	1832.3	1854.4	1972.0	2114.0	1963.1
50°	1630.4	1623.7	1677.0	1805.6	1889.9	1943.2	1994.2	2034.1	2149.5	2304.7	2105.1
52.5°	1708.0	1708.0	1748.0	1918.8	2034.1	2085.1	2138.4	2193.8	2326.9	2495.5	2220.5
55°	1841.1	1827.8	1852.2	2029.7	2196.1	2244.9	2346.9	2393.5	2522.1	2637.5	2318.1
57.5°	1932.1	1938.7	1967.6	2176.1	2386.8	2446.7	2548.8	2582.0	2695.2	2786.1	2389.0
60°	2051.9	2029.7	2091.8	2338.0	2597.6	2681.8	2766.1	2786.1	2870.4	2881.5	2422.3
62.5°	2167.2	2162.8	2216.0	2500.0	2823.8	2883.7	2970.2	2992.4	3027.9	2956.9	2375.7
65°	2238.2	2267.0	2366.9	2677.4	3081.1	3147.7	3234.2	3189.8	3149.9	2890.4	2147.3
67.5°	2335.8	2349.1	2502.2	2870.4	3378.4	3478.2	3553.6	3378.4	3081.1	2617.5	1807.9
70°	2358.0	2393.5	2593.1	3072.3	3684.5	3786.5	3791.0	3314.0	2830.5	2129.5	1311.0
72.5°	2260.4	2284.8	2566.5	3156.5	3859.7	3935.1	3706.7	2996.8	2242.6	1342.0	714.3
75°	1901.0	1969.8	2233.8	2897.0	3538.1	3509.2	3141.0	2287.0	1346.5	594.5	301.7
77.5°	1324.3	1326.5	1601.6	2107.3	2648.6	2641.9	2240.4	1326.5	576.7	239.6	177.5
80°	587.8	630.0	796.3	1135.7	1608.2	1608.2	1306.5	658.8	288.4	155.3	122.0
82.5°	346.0	359.4	425.9	530.2	783.0	825.2	625.5	439.2	197.4	97.6	75.4
85°	255.1	277.3	317.2	319.4	370.4	377.1	346.0	381.5	135.3	53.2	62.1
87.5°	190.8	204.1	252.9	210.7	197.4	186.3	213.0	390.4	51.0	26.6	20.0
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°	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7	1033.7
2.5°	1022.6	1022.6	1018.2	1009.3	1009.3	991.6	996.0	1000.4	989.3	989.3	991.6
5°	1007.1	998.2	987.1	973.8	964.9	940.5	936.1	920.6	918.3	913.9	907.3
7.5°	976.0	962.7	942.7	922.8	893.9	871.8	845.1	823.0	814.1	807.4	805.2
10°	947.2	945.0	911.7	871.8	827.4	785.3	745.3	716.5	698.7	687.7	685.4
12.5°	947.2	929.4	882.9	827.4	763.1	701.0	649.9	610.0	585.6	567.9	561.2
15°	942.7	925.0	862.9	778.6	705.4	621.1	550.1	508.0	472.5	454.7	457.0
17.5°	947.2	920.6	834.1	743.1	641.1	550.1	465.8	414.8	379.3	366.0	363.8
20°	949.4	916.1	811.9	694.3	574.5	472.5	392.6	343.8	317.2	308.3	308.3
22.5°	945.0	902.8	778.6	636.6	516.8	408.2	341.6	299.5	281.7	270.6	275.1
25°	964.9	900.6	747.5	587.8	450.3	354.9	303.9	272.8	261.8	255.1	257.3
27.5°	969.4	900.6	723.1	532.4	392.6	315.0	275.1	255.1	246.2	241.8	239.6
30°	987.1	905.0	694.3	476.9	346.0	283.9	252.9	241.8	235.1	232.9	232.9
32.5°	1035.9	918.3	663.3	430.3	306.1	257.3	237.4	228.5	224.0	221.8	224.0
35°	1093.6	953.8	630.0	381.5	277.3	239.6	224.0	217.4	215.2	215.2	215.2
37.5°	1182.3	1007.1	601.1	341.6	252.9	221.8	210.7	208.5	206.3	208.5	208.5
40°	1284.4	1064.8	574.5	310.6	235.1	210.7	199.6	199.6	197.4	199.6	201.9
42.5°	1401.9	1135.7	547.9	279.5	219.6	201.9	193.0	190.8	188.5	193.0	195.2
45°	1563.9	1233.3	530.2	261.8	208.5	193.0	184.1	184.1	181.9	181.9	186.3
47.5°	1699.2	1326.5	530.2	244.0	201.9	186.3	177.5	177.5	173.0	175.2	175.2
50°	1812.3	1406.4	541.2	239.6	193.0	179.7	173.0	168.6	166.4	166.4	166.4
52.5°	1887.7	1455.2	550.1	235.1	188.5	170.8	166.4	164.1	159.7	157.5	159.7
55°	1963.1	1488.4	552.3	235.1	181.9	161.9	157.5	157.5	153.1	150.8	150.8
57.5°	1992.0	1475.1	521.3	230.7	177.5	155.3	150.8	148.6	146.4	144.2	144.2
60°	1978.7	1426.3	452.5	219.6	173.0	150.8	142.0	142.0	142.0	137.5	139.7
62.5°	1887.7	1260.0	363.8	201.9	166.4	142.0	133.1	137.5	137.5	135.3	135.3
65°	1648.1	1040.4	295.0	186.3	157.5	135.3	126.4	133.1	135.3	133.1	130.9
67.5°	1317.6	800.8	244.0	168.6	146.4	124.2	117.6	124.2	126.4	124.2	124.2
70°	905.0	516.8	197.4	150.8	130.9	113.1	106.5	110.9	110.9	113.1	113.1
72.5°	468.0	279.5	161.9	128.7	113.1	102.0	95.4	95.4	93.2	93.2	93.2
75°	232.9	190.8	135.3	108.7	95.4	86.5	82.1	77.6	77.6	77.6	77.6
77.5°	161.9	146.4	110.9	86.5	77.6	71.0	71.0	64.3	64.3	64.3	64.3
80°	122.0	115.3	84.3	66.5	59.9	55.5	55.5	53.2	53.2	51.0	51.0
82.5°	86.5	93.2	64.3	48.8	44.4	42.1	42.1	39.9	39.9	35.5	35.5
85°	68.8	77.6	48.8	35.5	33.3	28.8	28.8	26.6	26.6	24.4	22.2
87.5°	20.0	42.1	20.0	13.3	13.3	13.3	13.3	11.1	11.1	8.9	8.9
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)