

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: P675704

Luminaire Tested: **CCW-SA-2A-740-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675704
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-740-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

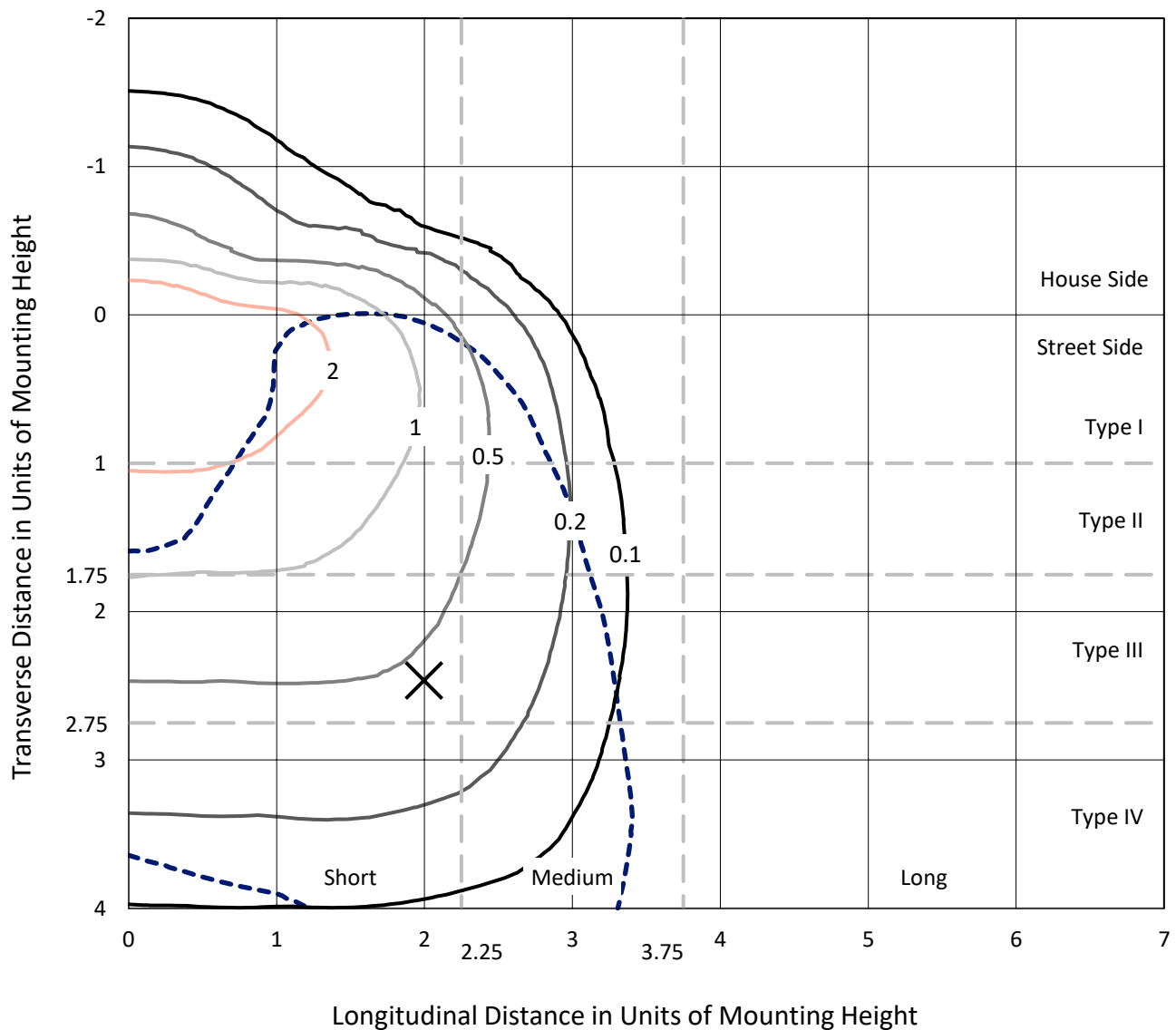
Lumens per Lamp: N/A
Luminaire Lumens: 5361.8 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

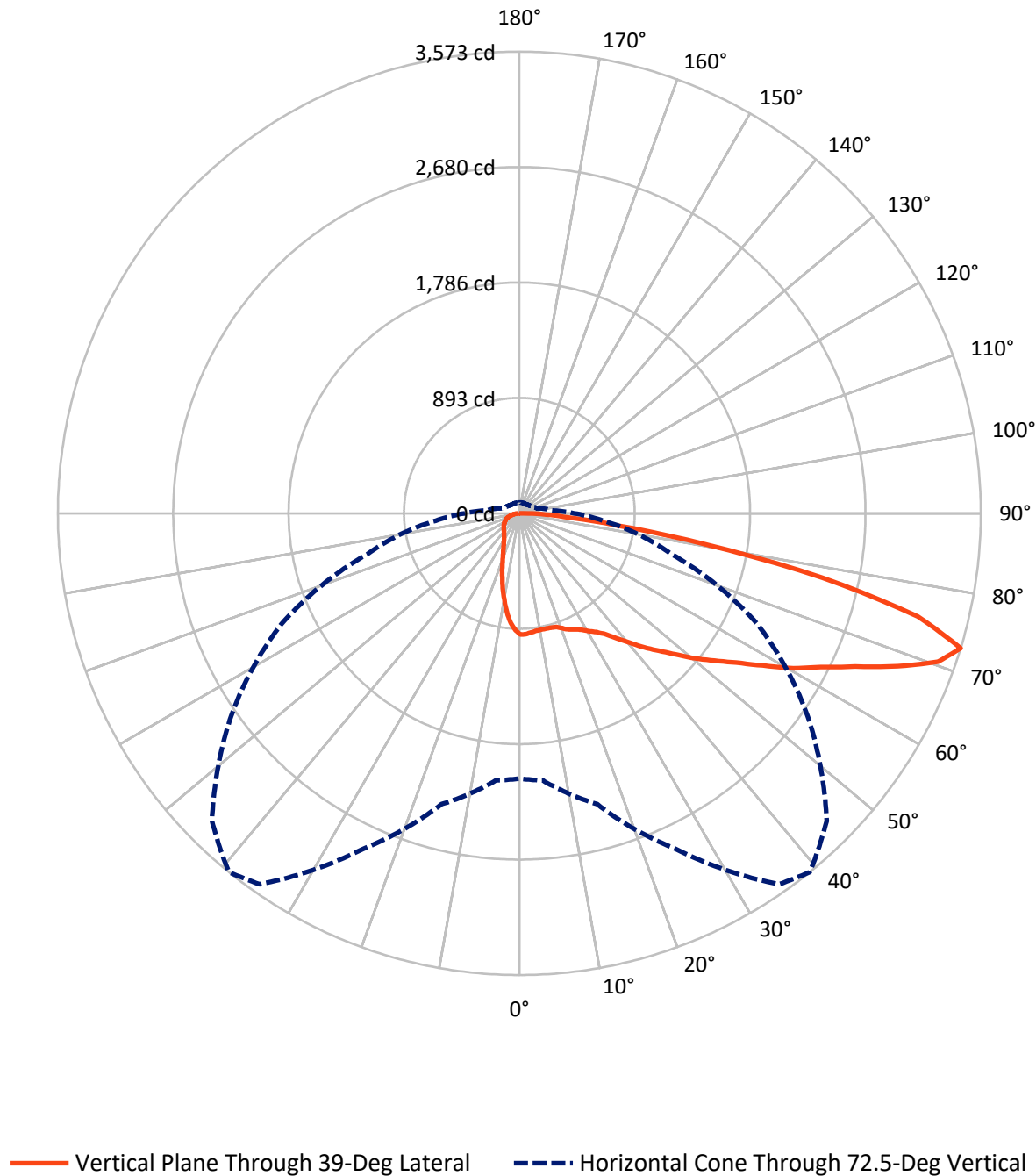
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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	796.9	0.0	796.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4564.9	0.0	4564.9
	% Fixture	85.1	0.0	85.1
Total	Lumens	5361.8	0.0	5361.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	1.5
10°-20°	211.7	3.9
20°-30°	322.5	6.0
30°-40°	471.7	8.8
40°-50°	722.2	13.5
50°-60°	1059.2	19.8
60°-70°	1350.9	25.2
70°-80°	976.0	18.2
80°-90°	164.7	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°	5361.8	100.0
0°-180°	5361.8	100.0

Coefficient of Utilization



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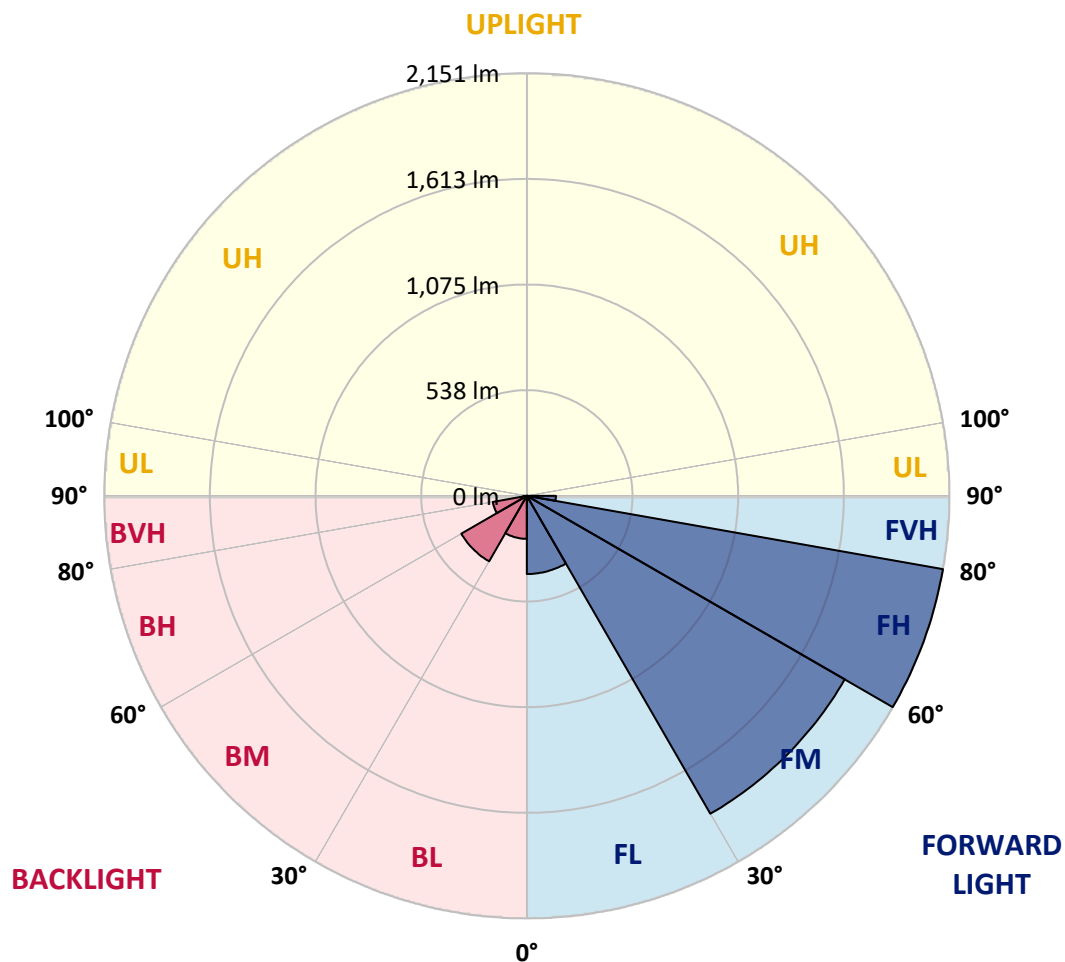
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.9	7.4			
FM	(30°-60°)	1868.2	34.8			
FH	(60°-80°)	2150.8	40.1			G2/5000
FVH	(80°-90°)	148.0	2.8			G2/225
BL	(0°-30°)	219.1	4.1	B1/500		
BM	(30°-60°)	385.0	7.2	B1/1000		
BH	(60°-80°)	176.1	3.3	B1/500		G1/500
BVH	(80°-90°)	16.7	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°	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5
2.5°	952.6	954.7	950.6	946.6	944.6	936.5	944.6	940.6	936.5	936.5	936.5
5°	940.6	942.6	942.6	938.5	940.6	926.5	924.4	926.5	920.4	916.4	914.4
7.5°	922.4	926.5	934.5	932.5	924.4	918.4	920.4	918.4	908.3	902.3	886.2
10°	908.3	912.4	916.4	920.4	918.4	916.4	914.4	906.3	904.3	890.2	874.1
12.5°	894.2	894.2	896.3	912.4	914.4	914.4	902.3	902.3	896.3	894.2	870.1
15°	880.1	886.2	902.3	906.3	914.4	918.4	912.4	912.4	902.3	888.2	870.1
17.5°	884.2	894.2	910.3	920.4	924.4	924.4	932.5	926.5	912.4	904.3	886.2
20°	904.3	906.3	926.5	944.6	948.6	948.6	940.6	934.5	924.4	910.3	886.2
22.5°	916.4	930.5	954.7	964.7	976.8	976.8	966.7	952.6	938.5	924.4	898.3
25°	968.8	970.8	980.8	997.0	1003.0	994.9	984.9	968.8	950.6	936.5	912.4
27.5°	1005.0	1015.1	1027.2	1035.2	1025.1	1019.1	1011.1	992.9	978.8	966.7	932.5
30°	1071.5	1059.4	1067.4	1071.5	1053.3	1057.4	1035.2	1019.1	1003.0	1003.0	964.7
32.5°	1111.8	1121.8	1113.8	1111.8	1097.7	1095.6	1081.5	1063.4	1053.3	1065.4	1013.1
35°	1182.2	1176.2	1176.2	1174.2	1158.1	1148.0	1148.0	1115.8	1125.9	1152.0	1087.6
37.5°	1218.5	1216.5	1228.6	1238.6	1222.5	1228.6	1222.5	1208.4	1212.5	1258.8	1180.2
40°	1254.8	1268.8	1293.0	1297.0	1307.1	1315.2	1311.1	1309.1	1325.2	1399.8	1305.1
42.5°	1289.0	1301.1	1337.3	1369.6	1393.7	1419.9	1421.9	1421.9	1474.3	1581.0	1456.2
45°	1333.3	1343.4	1393.7	1458.2	1498.5	1516.6	1532.7	1550.8	1621.3	1748.2	1617.3
47.5°	1393.7	1401.8	1462.2	1542.8	1621.3	1631.4	1663.6	1683.7	1790.5	1919.4	1782.4
50°	1480.3	1474.3	1522.6	1639.4	1716.0	1764.3	1810.6	1846.9	1951.6	2092.6	1911.3
52.5°	1550.8	1550.8	1587.1	1742.2	1846.9	1893.2	1941.5	1991.9	2112.7	2265.8	2016.1
55°	1671.7	1659.6	1681.7	1842.9	1993.9	2038.2	2130.9	2173.2	2290.0	2394.7	2104.7
57.5°	1754.2	1760.3	1786.5	1975.8	2167.1	2221.5	2314.1	2344.4	2447.1	2529.6	2169.1
60°	1863.0	1842.9	1899.2	2122.8	2358.4	2435.0	2511.5	2529.6	2606.2	2616.2	2199.3
62.5°	1967.7	1963.7	2012.0	2269.8	2563.9	2618.3	2696.8	2716.9	2749.2	2684.7	2157.0
65°	2032.2	2058.4	2149.0	2431.0	2797.5	2857.9	2936.5	2896.2	2859.9	2624.3	1949.6
67.5°	2120.8	2132.9	2271.8	2606.2	3067.4	3158.0	3226.5	3067.4	2797.5	2376.6	1641.4
70°	2140.9	2173.2	2354.4	2789.5	3345.3	3438.0	3442.0	3009.0	2569.9	1933.5	1190.3
72.5°	2052.3	2074.5	2330.3	2866.0	3504.4	3572.9	3365.5	2721.0	2036.2	1218.5	648.5
75°	1726.0	1788.5	2028.1	2630.3	3212.4	3186.2	2851.9	2076.5	1222.5	539.8	273.9
77.5°	1202.4	1204.4	1454.1	1913.3	2404.8	2398.7	2034.2	1204.4	523.7	217.5	161.1
80°	533.7	572.0	723.0	1031.2	1460.2	1460.2	1186.3	598.2	261.8	141.0	110.8
82.5°	314.2	326.3	386.7	481.4	711.0	749.2	568.0	398.8	179.3	88.6	68.5
85°	231.6	251.8	288.0	290.0	336.3	342.4	314.2	346.4	122.9	48.3	56.4
87.5°	173.2	185.3	229.6	191.3	179.3	169.2	193.3	354.5	46.3	24.2	18.1
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°	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5	938.5
2.5°	928.5	928.5	924.4	916.4	916.4	900.3	904.3	908.3	898.3	898.3	900.3
5°	914.4	906.3	896.3	884.2	876.1	854.0	849.9	835.8	833.8	829.8	823.7
7.5°	886.2	874.1	856.0	837.8	811.7	791.5	767.4	747.2	739.2	733.1	731.1
10°	860.0	858.0	827.8	791.5	751.2	713.0	676.7	650.5	634.4	624.4	622.3
12.5°	860.0	843.9	801.6	751.2	692.8	636.4	590.1	553.9	531.7	515.6	509.6
15°	856.0	839.9	783.5	706.9	640.5	563.9	499.5	461.2	429.0	412.9	414.9
17.5°	860.0	835.8	757.3	674.7	582.1	499.5	422.9	376.6	344.4	332.3	330.3
20°	862.0	831.8	737.1	630.4	521.6	429.0	356.5	312.2	288.0	280.0	280.0
22.5°	858.0	819.7	706.9	578.0	469.3	370.6	310.2	271.9	255.8	245.7	249.7
25°	876.1	817.7	678.7	533.7	408.9	322.2	275.9	247.7	237.7	231.6	233.6
27.5°	880.1	817.7	656.6	483.4	356.5	286.0	249.7	231.6	223.6	219.5	217.5
30°	896.3	821.7	630.4	433.0	314.2	257.8	229.6	219.5	213.5	211.5	211.5
32.5°	940.6	833.8	602.2	390.7	277.9	233.6	215.5	207.4	203.4	201.4	203.4
35°	992.9	866.0	572.0	346.4	251.8	217.5	203.4	197.4	195.4	195.4	195.4
37.5°	1073.5	914.4	545.8	310.2	229.6	201.4	191.3	189.3	187.3	189.3	189.3
40°	1166.1	966.7	521.6	282.0	213.5	191.3	181.3	181.3	179.3	181.3	183.3
42.5°	1272.9	1031.2	497.5	253.8	199.4	183.3	175.2	173.2	171.2	175.2	177.2
45°	1419.9	1119.8	481.4	237.7	189.3	175.2	167.2	167.2	165.2	165.2	169.2
47.5°	1542.8	1204.4	481.4	221.5	183.3	169.2	161.1	161.1	157.1	159.1	159.1
50°	1645.5	1276.9	491.4	217.5	175.2	163.1	157.1	153.1	151.1	151.1	151.1
52.5°	1714.0	1321.2	499.5	213.5	171.2	155.1	151.1	149.0	145.0	143.0	145.0
55°	1782.4	1351.4	501.5	213.5	165.2	147.0	143.0	143.0	139.0	137.0	137.0
57.5°	1808.6	1339.3	473.3	209.5	161.1	141.0	137.0	134.9	132.9	130.9	130.9
60°	1796.5	1295.0	410.9	199.4	157.1	137.0	128.9	128.9	128.9	124.9	126.9
62.5°	1714.0	1144.0	330.3	183.3	151.1	128.9	120.8	124.9	124.9	122.9	122.9
65°	1496.4	944.6	267.9	169.2	143.0	122.9	114.8	120.8	122.9	120.8	118.8
67.5°	1196.3	727.1	221.5	153.1	132.9	112.8	106.7	112.8	114.8	112.8	112.8
70°	821.7	469.3	179.3	137.0	118.8	102.7	96.7	100.7	100.7	102.7	102.7
72.5°	425.0	253.8	147.0	116.8	102.7	92.6	86.6	86.6	84.6	84.6	84.6
75°	211.5	173.2	122.9	98.7	86.6	78.5	74.5	70.5	70.5	70.5	70.5
77.5°	147.0	132.9	100.7	78.5	70.5	64.4	64.4	58.4	58.4	58.4	58.4
80°	110.8	104.7	76.5	60.4	54.4	50.4	50.4	48.3	48.3	46.3	46.3
82.5°	78.5	84.6	58.4	44.3	40.3	38.3	38.3	36.3	36.3	32.2	32.2
85°	62.4	70.5	44.3	32.2	30.2	26.2	26.2	24.2	24.2	22.2	20.1
87.5°	18.1	38.3	18.1	12.1	12.1	12.1	12.1	10.1	10.1	8.1	8.1
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)