

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: P675760

Luminaire Tested: **CCW-SA-2B-835-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675760
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-835-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

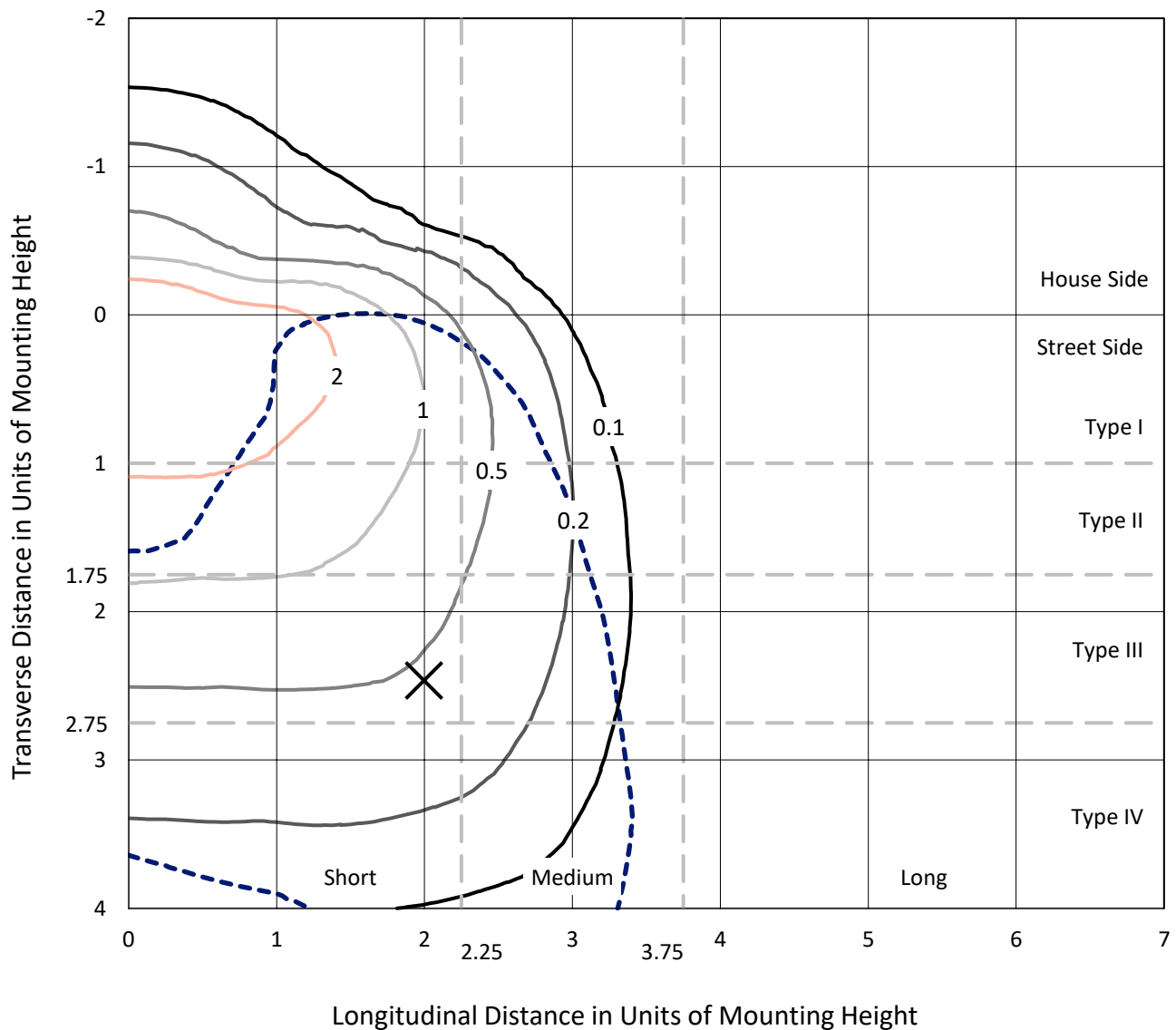
Lumens per Lamp: N/A
Luminaire Lumens: 5576.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

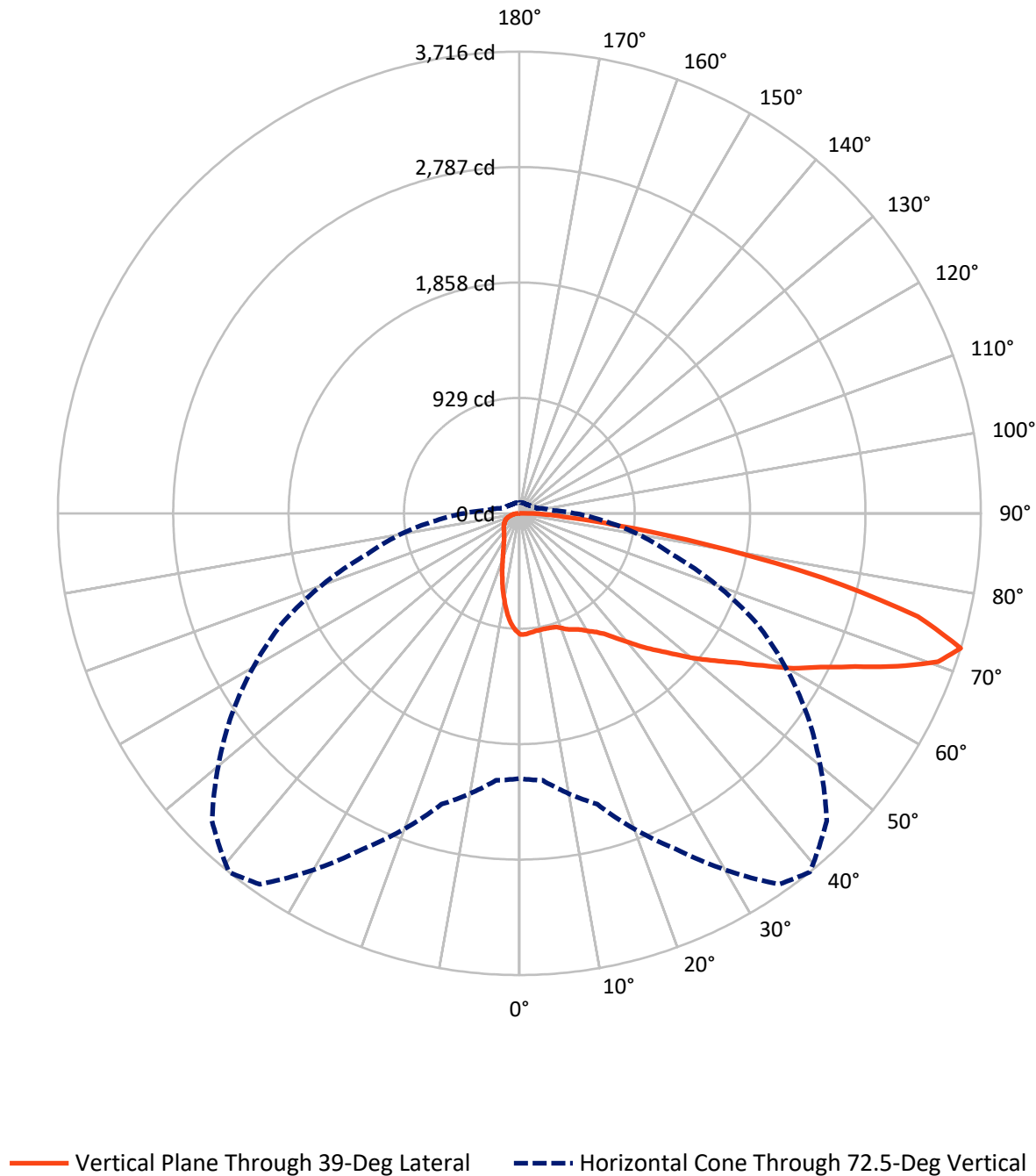
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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	828.8	0.0	828.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4747.7	0.0	4747.7
	% Fixture	85.1	0.0	85.1
Total	Lumens	5576.4	0.0	5576.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.5
10°-20°	220.1	3.9
20°-30°	335.4	6.0
30°-40°	490.6	8.8
40°-50°	751.1	13.5
50°-60°	1101.6	19.8
60°-70°	1405.0	25.2
70°-80°	1015.1	18.2
80°-90°	171.2	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°	5576.4	100.0
0°-180°	5576.4	100.0

Coefficient of Utilization



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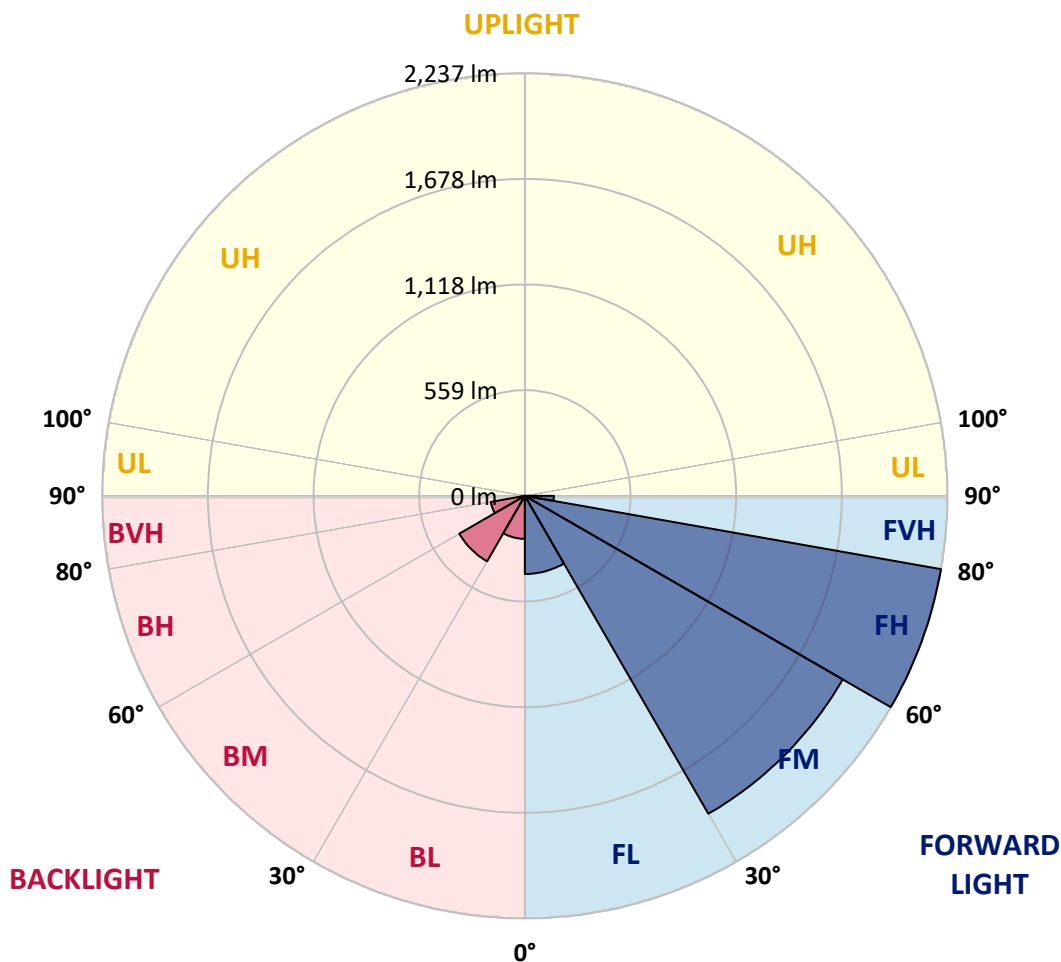
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.9	7.4			
FM	(30°-60°)	1943.0	34.8			
FH	(60°-80°)	2237.0	40.1			G2/5000
FVH	(80°-90°)	153.9	2.8			G2/225
BL	(0°-30°)	227.9	4.1	B1/500		
BM	(30°-60°)	400.4	7.2	B1/1000		
BH	(60°-80°)	183.1	3.3	B1/500		G1/500
BVH	(80°-90°)	17.4	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°	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1
2.5°	990.8	992.9	988.7	984.5	982.4	974.0	982.4	978.2	974.0	974.0	974.0
5°	978.2	980.3	980.3	976.1	978.2	963.6	961.5	963.6	957.3	953.1	951.0
7.5°	959.4	963.6	971.9	969.8	961.5	955.2	957.3	955.2	944.7	938.4	921.7
10°	944.7	948.9	953.1	957.3	955.2	953.1	951.0	942.6	940.5	925.9	909.1
12.5°	930.0	930.0	932.1	948.9	951.0	951.0	938.4	938.4	932.1	930.0	904.9
15°	915.4	921.7	938.4	942.6	951.0	955.2	948.9	948.9	938.4	923.8	904.9
17.5°	919.6	930.0	946.8	957.3	961.5	961.5	969.8	963.6	948.9	940.5	921.7
20°	940.5	942.6	963.6	982.4	986.6	986.6	978.2	971.9	961.5	946.8	921.7
22.5°	953.1	967.7	992.9	1003.4	1015.9	1015.9	1005.5	990.8	976.1	961.5	934.2
25°	1007.5	1009.6	1020.1	1036.9	1043.2	1034.8	1024.3	1007.5	988.7	974.0	948.9
27.5°	1045.2	1055.7	1068.3	1076.7	1066.2	1059.9	1051.5	1032.7	1018.0	1005.5	969.8
30°	1114.4	1101.8	1110.2	1114.4	1095.5	1099.7	1076.7	1059.9	1043.2	1043.2	1003.4
32.5°	1156.3	1166.7	1158.4	1156.3	1141.6	1139.5	1124.8	1106.0	1095.5	1108.1	1053.6
35°	1229.6	1223.3	1223.3	1221.2	1204.4	1194.0	1194.0	1160.5	1170.9	1198.2	1131.1
37.5°	1267.3	1265.2	1277.8	1288.2	1271.5	1277.8	1271.5	1256.8	1261.0	1309.2	1227.5
40°	1305.0	1319.7	1344.8	1349.0	1359.5	1367.8	1363.6	1361.5	1378.3	1455.8	1357.4
42.5°	1340.6	1353.2	1390.9	1424.4	1449.5	1476.8	1478.9	1478.9	1533.3	1644.3	1514.5
45°	1386.7	1397.2	1449.5	1516.6	1558.4	1577.3	1594.1	1612.9	1686.2	1818.2	1682.0
47.5°	1449.5	1457.9	1520.7	1604.5	1686.2	1696.7	1730.2	1751.2	1862.2	1996.2	1853.8
50°	1539.6	1533.3	1583.6	1705.1	1784.7	1834.9	1883.1	1920.8	2029.8	2176.4	1987.9
52.5°	1612.9	1612.9	1650.6	1811.9	1920.8	1969.0	2019.3	2071.6	2197.3	2356.5	2096.8
55°	1738.6	1726.0	1749.1	1916.6	2073.7	2119.8	2216.2	2260.2	2381.7	2490.6	2188.9
57.5°	1824.5	1830.8	1858.0	2054.9	2253.9	2310.4	2406.8	2438.2	2545.0	2630.9	2256.0
60°	1937.6	1916.6	1975.3	2207.8	2452.9	2532.5	2612.1	2630.9	2710.5	2721.0	2287.4
62.5°	2046.5	2042.3	2092.6	2360.7	2666.5	2723.1	2804.8	2825.7	2859.3	2792.2	2243.4
65°	2113.5	2140.8	2235.0	2528.3	2909.5	2972.4	3054.1	3012.2	2974.5	2729.4	2027.7
67.5°	2205.7	2218.3	2362.8	2710.5	3190.2	3284.5	3355.7	3190.2	2909.5	2471.7	1707.2
70°	2226.7	2260.2	2448.7	2901.1	3479.3	3575.6	3579.8	3129.5	2672.8	2010.9	1238.0
72.5°	2134.5	2157.5	2423.6	2980.7	3644.8	3716.0	3500.2	2829.9	2117.7	1267.3	674.5
75°	1795.1	1860.1	2109.4	2735.7	3341.0	3313.8	2966.1	2159.6	1271.5	561.4	284.9
77.5°	1250.5	1252.6	1512.4	1990.0	2501.1	2494.8	2115.6	1252.6	544.6	226.2	167.6
80°	555.1	594.9	752.0	1072.5	1518.6	1518.6	1233.8	622.1	272.3	146.6	115.2
82.5°	326.8	339.3	402.2	500.6	739.4	779.2	590.7	414.7	186.4	92.2	71.2
85°	240.9	261.8	299.5	301.6	349.8	356.1	326.8	360.3	127.8	50.3	58.7
87.5°	180.1	192.7	238.8	199.0	186.4	176.0	201.1	368.7	48.2	25.1	18.9
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°	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1
2.5°	965.7	965.7	961.5	953.1	953.1	936.3	940.5	944.7	934.2	934.2	936.3
5°	951.0	942.6	932.1	919.6	911.2	888.1	884.0	869.3	867.2	863.0	856.7
7.5°	921.7	909.1	890.2	871.4	844.2	823.2	798.1	777.1	768.8	762.5	760.4
10°	894.4	892.3	860.9	823.2	781.3	741.5	703.8	676.6	659.8	649.4	647.3
12.5°	894.4	877.7	833.7	781.3	720.6	661.9	613.7	576.0	553.0	536.2	530.0
15°	890.2	873.5	814.8	735.2	666.1	586.5	519.5	479.7	446.2	429.4	431.5
17.5°	894.4	869.3	787.6	701.7	605.4	519.5	439.9	391.7	358.2	345.6	343.5
20°	896.5	865.1	766.7	655.6	542.5	446.2	370.8	324.7	299.5	291.2	291.2
22.5°	892.3	852.5	735.2	601.2	488.1	385.4	322.6	282.8	266.0	255.6	259.7
25°	911.2	850.4	705.9	555.1	425.2	335.2	287.0	257.6	247.2	240.9	243.0
27.5°	915.4	850.4	682.9	502.7	370.8	297.4	259.7	240.9	232.5	228.3	226.2
30°	932.1	854.6	655.6	450.4	326.8	268.1	238.8	228.3	222.0	219.9	219.9
32.5°	978.2	867.2	626.3	406.4	289.1	243.0	224.1	215.8	211.6	209.5	211.6
35°	1032.7	900.7	594.9	360.3	261.8	226.2	211.6	205.3	203.2	203.2	203.2
37.5°	1116.5	951.0	567.7	322.6	238.8	209.5	199.0	196.9	194.8	196.9	196.9
40°	1212.8	1005.5	542.5	293.3	222.0	199.0	188.5	188.5	186.4	188.5	190.6
42.5°	1323.8	1072.5	517.4	263.9	207.4	190.6	182.2	180.1	178.0	182.2	184.3
45°	1476.8	1164.6	500.6	247.2	196.9	182.2	173.9	173.9	171.8	171.8	176.0
47.5°	1604.5	1252.6	500.6	230.4	190.6	176.0	167.6	167.6	163.4	165.5	165.5
50°	1711.4	1328.0	511.1	226.2	182.2	169.7	163.4	159.2	157.1	157.1	157.1
52.5°	1782.6	1374.1	519.5	222.0	178.0	161.3	157.1	155.0	150.8	148.7	150.8
55°	1853.8	1405.5	521.6	222.0	171.8	152.9	148.7	148.7	144.5	142.4	142.4
57.5°	1881.0	1393.0	492.3	217.8	167.6	146.6	142.4	140.3	138.2	136.2	136.2
60°	1868.5	1346.9	427.3	207.4	163.4	142.4	134.1	134.1	134.1	129.9	132.0
62.5°	1782.6	1189.8	343.5	190.6	157.1	134.1	125.7	129.9	129.9	127.8	127.8
65°	1556.4	982.4	278.6	176.0	148.7	127.8	119.4	125.7	127.8	125.7	123.6
67.5°	1244.2	756.2	230.4	159.2	138.2	117.3	111.0	117.3	119.4	117.3	117.3
70°	854.6	488.1	186.4	142.4	123.6	106.8	100.5	104.7	104.7	106.8	106.8
72.5°	442.0	263.9	152.9	121.5	106.8	96.4	90.1	90.1	88.0	88.0	88.0
75°	219.9	180.1	127.8	102.6	90.1	81.7	77.5	73.3	73.3	73.3	73.3
77.5°	152.9	138.2	104.7	81.7	73.3	67.0	67.0	60.7	60.7	60.7	60.7
80°	115.2	108.9	79.6	62.8	56.6	52.4	52.4	50.3	50.3	48.2	48.2
82.5°	81.7	88.0	60.7	46.1	41.9	39.8	39.8	37.7	37.7	33.5	33.5
85°	64.9	73.3	46.1	33.5	31.4	27.2	27.2	25.1	25.1	23.0	20.9
87.5°	18.9	39.8	18.9	12.6	12.6	12.6	12.6	10.5	10.5	8.4	8.4
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)