

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: P675766

Luminaire Tested: **CCW-SA-1C-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675766
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

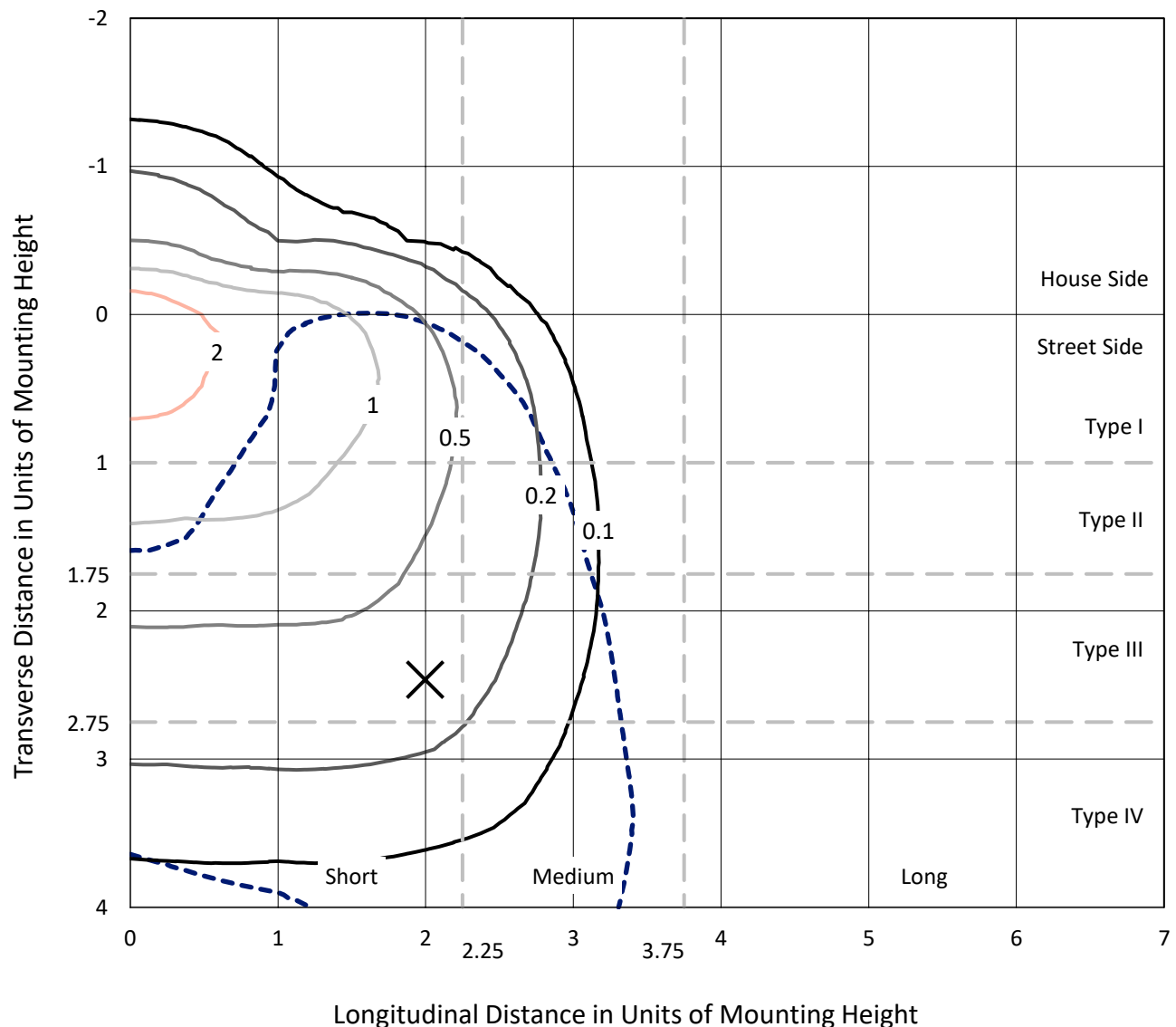
Lumens per Lamp: N/A
Luminaire Lumens: 3777.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 32
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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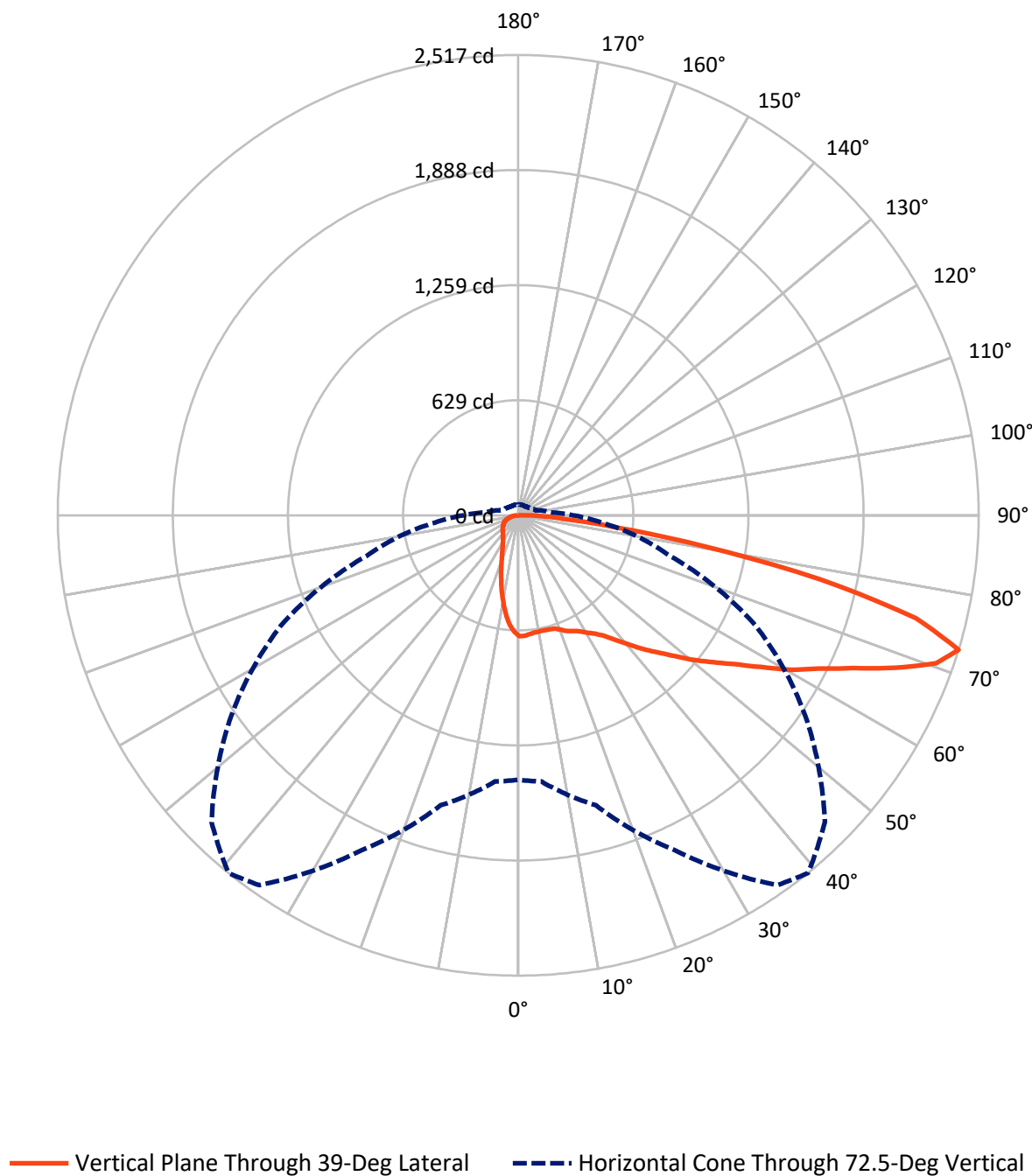
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.4	0.0	561.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3216.0	0.0	3216.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	3777.4	0.0	3777.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	149.1	3.9
20°-30°	227.2	6.0
30°-40°	332.3	8.8
40°-50°	508.8	13.5
50°-60°	746.2	19.8
60°-70°	951.7	25.2
70°-80°	687.6	18.2
80°-90°	116.0	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°	3777.4	100.0
0°-180°	3777.4	100.0

Coefficient of Utilization



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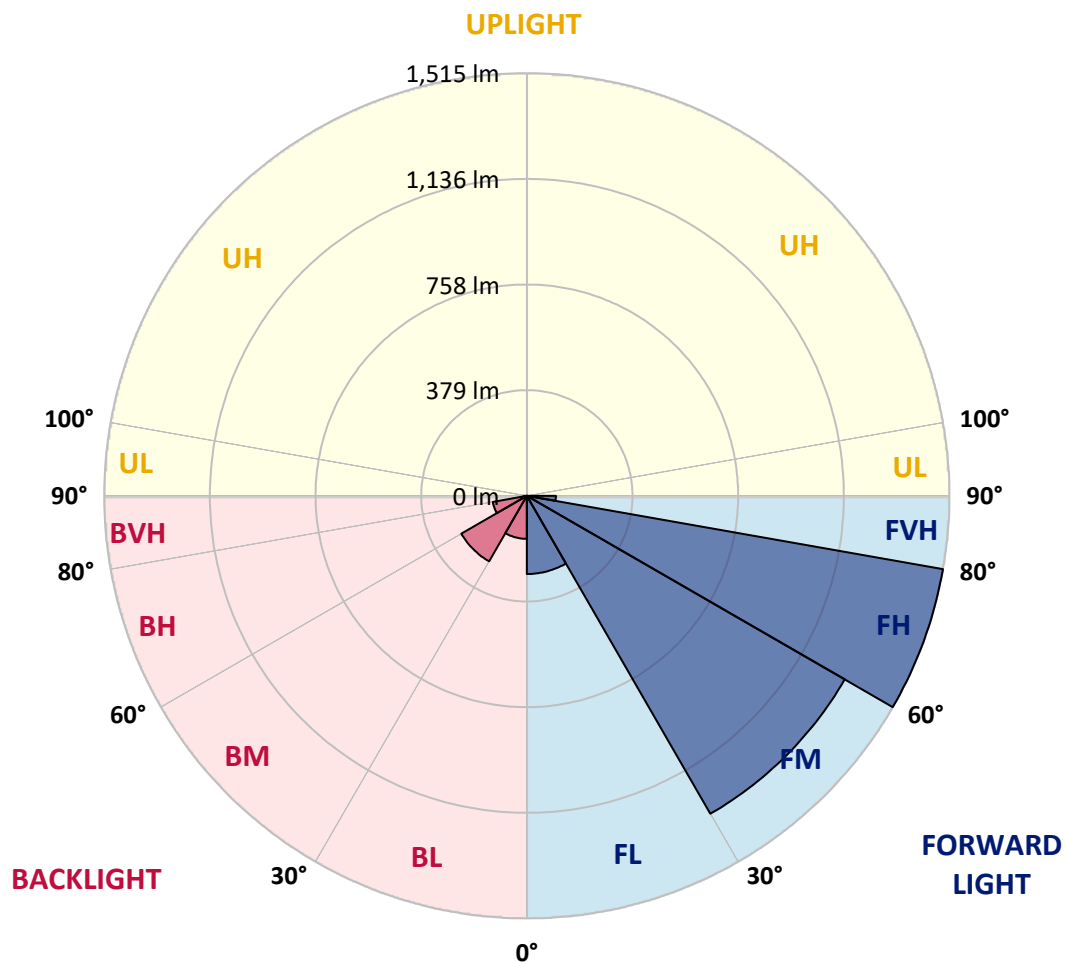
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.3	7.4			
FM	(30°-60°)	1316.1	34.8			
FH	(60°-80°)	1515.3	40.1			G1/1800
FVH	(80°-90°)	104.2	2.8			G2/225
BL	(0°-30°)	154.4	4.1	B1/500		
BM	(30°-60°)	271.2	7.2	B1/1000		
BH	(60°-80°)	124.0	3.3	B1/500		G1/500
BVH	(80°-90°)	11.8	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°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2
2.5°	671.1	672.6	669.7	666.9	665.5	659.8	665.5	662.6	659.8	659.8	659.8
5°	662.6	664.1	664.1	661.2	662.6	652.7	651.3	652.7	648.4	645.6	644.2
7.5°	649.9	652.7	658.4	657.0	651.3	647.0	648.4	647.0	639.9	635.7	624.3
10°	639.9	642.8	645.6	648.4	647.0	645.6	644.2	638.5	637.1	627.2	615.8
12.5°	630.0	630.0	631.4	642.8	644.2	644.2	635.7	635.7	631.4	630.0	613.0
15°	620.1	624.3	635.7	638.5	644.2	647.0	642.8	642.8	635.7	625.7	613.0
17.5°	622.9	630.0	641.4	648.4	651.3	651.3	657.0	652.7	642.8	637.1	624.3
20°	637.1	638.5	652.7	665.5	668.3	668.3	662.6	658.4	651.3	641.4	624.3
22.5°	645.6	655.5	672.6	679.7	688.2	688.2	681.1	671.1	661.2	651.3	632.8
25°	682.5	683.9	691.0	702.4	706.6	700.9	693.9	682.5	669.7	659.8	642.8
27.5°	708.0	715.1	723.6	729.3	722.2	718.0	712.3	699.5	689.6	681.1	657.0
30°	754.9	746.4	752.0	754.9	742.1	744.9	729.3	718.0	706.6	706.6	679.7
32.5°	783.2	790.3	784.7	783.2	773.3	771.9	762.0	749.2	742.1	750.6	713.7
35°	832.9	828.6	828.6	827.2	815.9	808.8	808.8	786.1	793.2	811.6	766.2
37.5°	858.4	857.0	865.5	872.6	861.3	865.5	861.3	851.4	854.2	886.8	831.5
40°	884.0	893.9	910.9	913.8	920.9	926.6	923.7	922.3	933.6	986.1	919.5
42.5°	908.1	916.6	942.2	964.9	981.9	1000.3	1001.8	1001.8	1038.6	1113.9	1025.9
45°	939.3	946.4	981.9	1027.3	1055.7	1068.4	1079.8	1092.6	1142.2	1231.6	1139.4
47.5°	981.9	987.6	1030.1	1086.9	1142.2	1149.3	1172.0	1186.2	1261.4	1352.2	1255.7
50°	1042.9	1038.6	1072.7	1155.0	1208.9	1243.0	1275.6	1301.1	1374.9	1474.3	1346.6
52.5°	1092.6	1092.6	1118.1	1227.4	1301.1	1333.8	1367.8	1403.3	1488.4	1596.3	1420.3
55°	1177.7	1169.2	1184.8	1298.3	1404.7	1435.9	1501.2	1531.0	1613.3	1687.1	1482.8
57.5°	1235.9	1240.1	1258.6	1392.0	1526.8	1565.1	1630.3	1651.6	1724.0	1782.2	1528.2
60°	1312.5	1298.3	1338.0	1495.5	1661.6	1715.5	1769.4	1782.2	1836.1	1843.2	1549.5
62.5°	1386.3	1383.4	1417.5	1599.1	1806.3	1844.6	1899.9	1914.1	1936.8	1891.4	1519.7
65°	1431.7	1450.1	1514.0	1712.6	1970.9	2013.4	2068.8	2040.4	2014.9	1848.9	1373.5
67.5°	1494.1	1502.6	1600.5	1836.1	2161.0	2224.9	2273.1	2161.0	1970.9	1674.3	1156.4
70°	1508.3	1531.0	1658.7	1965.2	2356.8	2422.1	2424.9	2119.9	1810.5	1362.2	838.6
72.5°	1445.9	1461.5	1641.7	2019.1	2468.9	2517.2	2371.0	1917.0	1434.5	858.4	456.9
75°	1216.0	1260.0	1428.9	1853.1	2263.2	2244.7	2009.2	1462.9	861.3	380.3	193.0
77.5°	847.1	848.5	1024.5	1348.0	1694.2	1689.9	1433.1	848.5	368.9	153.2	113.5
80°	376.0	403.0	509.4	726.5	1028.7	1028.7	835.7	421.4	184.5	99.3	78.0
82.5°	221.4	229.9	272.4	339.1	500.9	527.8	400.1	280.9	126.3	62.4	48.2
85°	163.2	177.4	202.9	204.3	237.0	241.2	221.4	244.1	86.6	34.1	39.7
87.5°	122.0	130.5	161.8	134.8	126.3	119.2	136.2	249.7	32.6	17.0	12.8
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°	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2	661.2
2.5°	654.1	654.1	651.3	645.6	645.6	634.3	637.1	639.9	632.8	632.8	634.3
5°	644.2	638.5	631.4	622.9	617.2	601.6	598.8	588.9	587.4	584.6	580.3
7.5°	624.3	615.8	603.0	590.3	571.8	557.6	540.6	526.4	520.7	516.5	515.1
10°	605.9	604.5	583.2	557.6	529.3	502.3	476.8	458.3	447.0	439.9	438.4
12.5°	605.9	594.5	564.7	529.3	488.1	448.4	415.7	390.2	374.6	363.2	359.0
15°	603.0	591.7	552.0	498.0	451.2	397.3	351.9	324.9	302.2	290.9	292.3
17.5°	605.9	588.9	533.5	475.3	410.1	351.9	298.0	265.3	242.6	234.1	232.7
20°	607.3	586.0	519.3	444.1	367.5	302.2	251.1	219.9	202.9	197.2	197.2
22.5°	604.5	577.5	498.0	407.2	330.6	261.1	218.5	191.6	180.2	173.1	175.9
25°	617.2	576.1	478.2	376.0	288.0	227.0	194.4	174.5	167.4	163.2	164.6
27.5°	620.1	576.1	462.6	340.5	251.1	201.5	175.9	163.2	157.5	154.7	153.2
30°	631.4	578.9	444.1	305.1	221.4	181.6	161.8	154.7	150.4	149.0	149.0
32.5°	662.6	587.4	424.3	275.3	195.8	164.6	151.8	146.1	143.3	141.9	143.3
35°	699.5	610.1	403.0	244.1	177.4	153.2	143.3	139.1	137.6	137.6	137.6
37.5°	756.3	644.2	384.5	218.5	161.8	141.9	134.8	133.4	132.0	133.4	133.4
40°	821.6	681.1	367.5	198.6	150.4	134.8	127.7	127.7	126.3	127.7	129.1
42.5°	896.8	726.5	350.5	178.8	140.5	129.1	123.4	122.0	120.6	123.4	124.9
45°	1000.3	788.9	339.1	167.4	133.4	123.4	117.8	117.8	116.4	116.4	119.2
47.5°	1086.9	848.5	339.1	156.1	129.1	119.2	113.5	113.5	110.7	112.1	112.1
50°	1159.3	899.6	346.2	153.2	123.4	114.9	110.7	107.8	106.4	106.4	106.4
52.5°	1207.5	930.8	351.9	150.4	120.6	109.3	106.4	105.0	102.2	100.7	102.2
55°	1255.7	952.1	353.3	150.4	116.4	103.6	100.7	100.7	97.9	96.5	96.5
57.5°	1274.2	943.6	333.4	147.6	113.5	99.3	96.5	95.1	93.6	92.2	92.2
60°	1265.7	912.4	289.5	140.5	110.7	96.5	90.8	90.8	90.8	88.0	89.4
62.5°	1207.5	805.9	232.7	129.1	106.4	90.8	85.1	88.0	88.0	86.6	86.6
65°	1054.3	665.5	188.7	119.2	100.7	86.6	80.9	85.1	86.6	85.1	83.7
67.5°	842.8	512.2	156.1	107.8	93.6	79.5	75.2	79.5	80.9	79.5	79.5
70°	578.9	330.6	126.3	96.5	83.7	72.4	68.1	70.9	70.9	72.4	72.4
72.5°	299.4	178.8	103.6	82.3	72.4	65.3	61.0	61.0	59.6	59.6	59.6
75°	149.0	122.0	86.6	69.5	61.0	55.3	52.5	49.7	49.7	49.7	49.7
77.5°	103.6	93.6	70.9	55.3	49.7	45.4	45.4	41.1	41.1	41.1	41.1
80°	78.0	73.8	53.9	42.6	38.3	35.5	35.5	34.1	34.1	32.6	32.6
82.5°	55.3	59.6	41.1	31.2	28.4	27.0	27.0	25.5	25.5	22.7	22.7
85°	44.0	49.7	31.2	22.7	21.3	18.4	18.4	17.0	17.0	15.6	14.2
87.5°	12.8	27.0	12.8	8.5	8.5	8.5	8.5	7.1	7.1	5.7	5.7
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)