

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: P675679

Luminaire Tested: **CCW-SA-1D-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675679
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

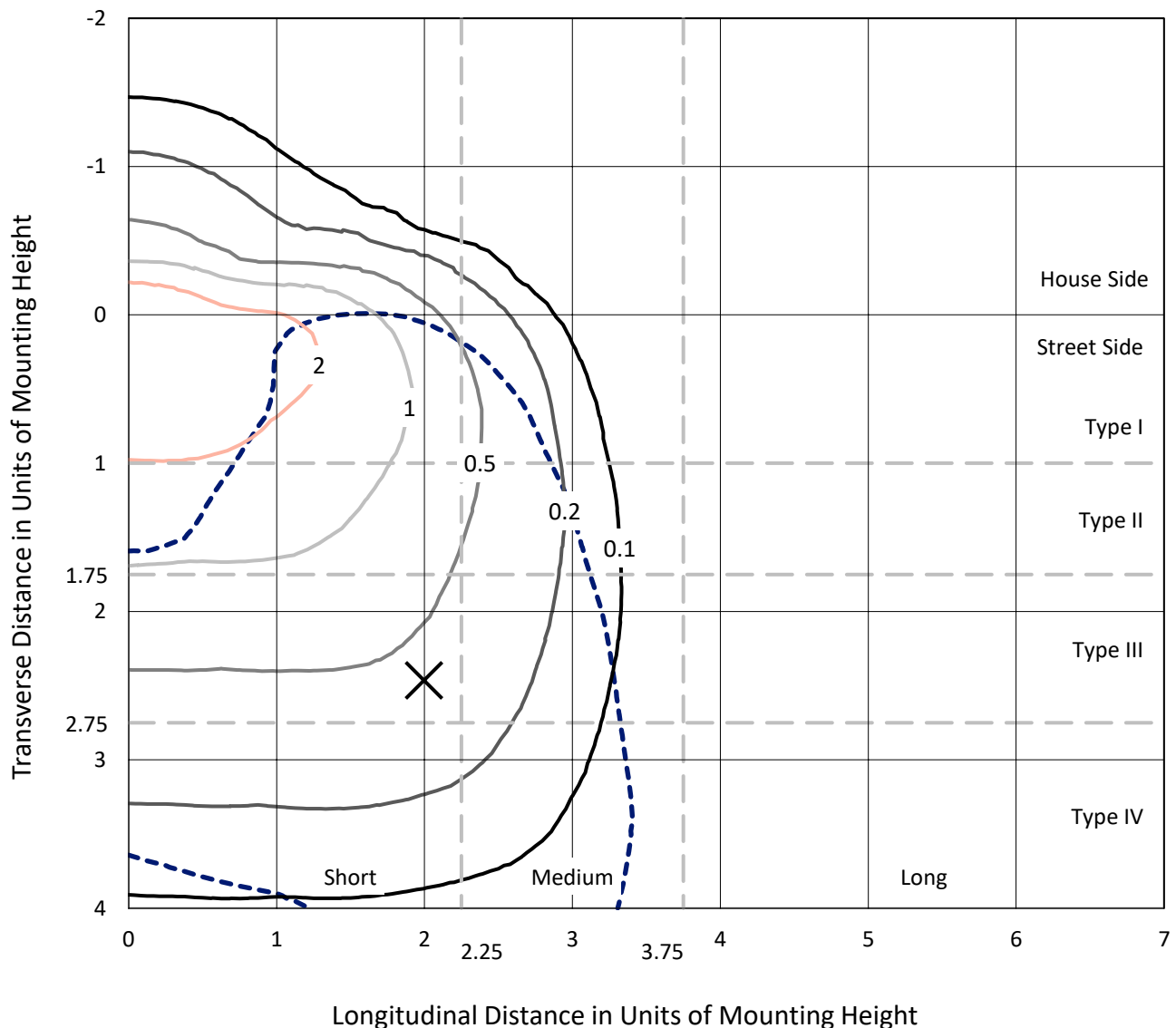
Lumens per Lamp: N/A
Luminaire Lumens: 4976.3 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

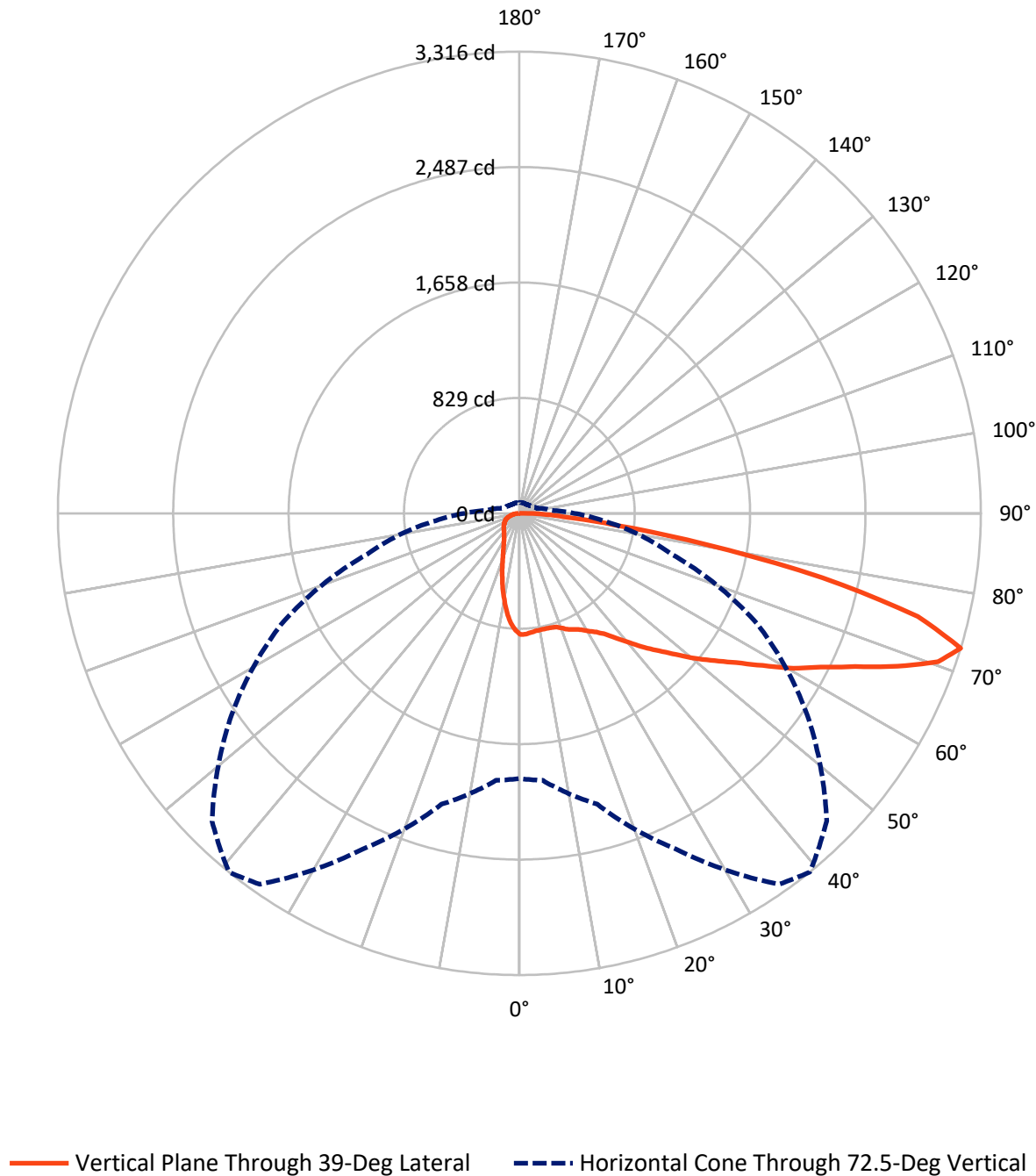
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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	739.6	0.0	739.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4236.8	0.0	4236.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	4976.3	0.0	4976.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.5
10°-20°	196.5	3.9
20°-30°	299.3	6.0
30°-40°	437.8	8.8
40°-50°	670.3	13.5
50°-60°	983.1	19.8
60°-70°	1253.8	25.2
70°-80°	905.9	18.2
80°-90°	152.8	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°	4976.3	100.0
0°-180°	4976.3	100.0



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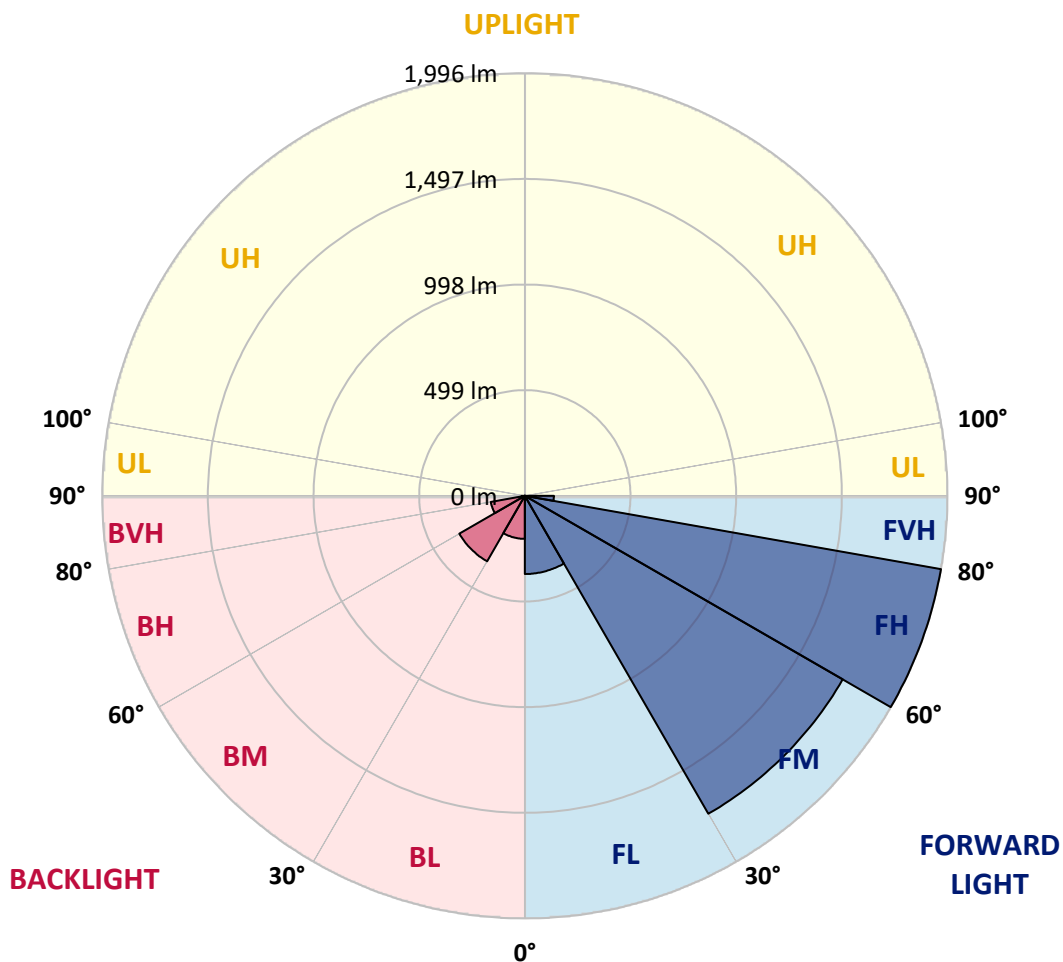
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.3	7.4			
FM	(30°-60°)	1733.9	34.8			
FH	(60°-80°)	1996.2	40.1			G2/5000
FVH	(80°-90°)	137.3	2.8			G2/225
BL	(0°-30°)	203.4	4.1	B1/500		
BM	(30°-60°)	357.3	7.2	B1/1000		
BH	(60°-80°)	163.4	3.3	B1/500		G1/500
BVH	(80°-90°)	15.5	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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	884.2	886.0	882.3	878.6	876.7	869.2	876.7	873.0	869.2	869.2	869.2
5°	873.0	874.8	874.8	871.1	873.0	859.9	858.0	859.9	854.3	850.5	848.7
7.5°	856.1	859.9	867.3	865.5	858.0	852.4	854.3	852.4	843.0	837.4	822.5
10°	843.0	846.8	850.5	854.3	852.4	850.5	848.7	841.2	839.3	826.2	811.3
12.5°	830.0	830.0	831.8	846.8	848.7	848.7	837.4	837.4	831.8	830.0	807.5
15°	816.9	822.5	837.4	841.2	848.7	852.4	846.8	846.8	837.4	824.3	807.5
17.5°	820.6	830.0	844.9	854.3	858.0	858.0	865.5	859.9	846.8	839.3	822.5
20°	839.3	841.2	859.9	876.7	880.4	880.4	873.0	867.3	858.0	844.9	822.5
22.5°	850.5	863.6	886.0	895.4	906.6	906.6	897.3	884.2	871.1	858.0	833.7
25°	899.1	901.0	910.3	925.3	930.9	923.4	914.1	899.1	882.3	869.2	846.8
27.5°	932.8	942.1	953.3	960.8	951.5	945.9	938.4	921.6	908.5	897.3	865.5
30°	994.5	983.2	990.7	994.5	977.6	981.4	960.8	945.9	930.9	930.9	895.4
32.5°	1031.8	1041.2	1033.7	1031.8	1018.8	1016.9	1003.8	987.0	977.6	988.8	940.2
35°	1097.3	1091.7	1091.7	1089.8	1074.8	1065.5	1065.5	1035.6	1044.9	1069.2	1009.4
37.5°	1130.9	1129.0	1140.3	1149.6	1134.6	1140.3	1134.6	1121.6	1125.3	1168.3	1095.4
40°	1164.6	1177.6	1200.1	1203.8	1213.2	1220.6	1216.9	1215.0	1230.0	1299.1	1211.3
42.5°	1196.3	1207.6	1241.2	1271.1	1293.5	1317.8	1319.7	1319.7	1368.3	1467.4	1351.5
45°	1237.5	1246.8	1293.5	1353.4	1390.7	1407.6	1422.5	1439.3	1504.8	1622.5	1501.0
47.5°	1293.5	1301.0	1357.1	1431.9	1504.8	1514.1	1544.0	1562.7	1661.8	1781.4	1654.3
50°	1373.9	1368.3	1413.2	1521.6	1592.6	1637.5	1680.5	1714.1	1811.3	1942.2	1773.9
52.5°	1439.3	1439.3	1473.0	1616.9	1714.1	1757.1	1802.0	1848.7	1960.9	2102.9	1871.1
55°	1551.5	1540.3	1560.8	1710.4	1850.6	1891.7	1977.7	2016.9	2125.4	2222.6	1953.4
57.5°	1628.1	1633.7	1658.0	1833.8	2011.3	2061.8	2147.8	2175.8	2271.2	2347.8	2013.2
60°	1729.1	1710.4	1762.7	1970.2	2188.9	2260.0	2331.0	2347.8	2418.8	2428.2	2041.2
62.5°	1826.3	1822.5	1867.4	2106.7	2379.6	2430.1	2503.0	2521.6	2551.6	2491.7	2002.0
65°	1886.1	1910.4	1994.5	2256.2	2596.4	2652.5	2725.4	2688.0	2654.4	2435.7	1809.5
67.5°	1968.3	1979.6	2108.5	2418.8	2846.9	2931.0	2994.6	2846.9	2596.4	2205.7	1523.5
70°	1987.0	2016.9	2185.2	2588.9	3104.9	3190.8	3194.6	2792.7	2385.2	1794.5	1104.7
72.5°	1904.8	1925.4	2162.7	2660.0	3252.5	3316.1	3123.6	2525.4	1889.8	1130.9	601.9
75°	1602.0	1659.9	1882.4	2441.3	2981.5	2957.2	2646.9	1927.2	1134.6	501.0	254.2
77.5°	1116.0	1117.8	1349.6	1775.8	2231.9	2226.3	1888.0	1117.8	486.0	201.9	149.5
80°	495.4	530.9	671.1	957.1	1355.2	1355.2	1101.0	555.2	243.0	130.8	102.8
82.5°	291.6	302.8	358.9	446.8	659.9	695.4	527.1	370.1	166.4	82.2	63.6
85°	215.0	233.7	267.3	269.2	312.2	317.8	291.6	321.5	114.0	44.9	52.3
87.5°	160.8	172.0	213.1	177.6	166.4	157.0	179.5	329.0	43.0	22.4	16.8
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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	861.7	861.7	858.0	850.5	850.5	835.6	839.3	843.0	833.7	833.7	835.6
5°	848.7	841.2	831.8	820.6	813.1	792.6	788.8	775.7	773.9	770.1	764.5
7.5°	822.5	811.3	794.4	777.6	753.3	734.6	712.2	693.5	686.0	680.4	678.5
10°	798.2	796.3	768.3	734.6	697.2	661.7	628.1	603.8	588.8	579.5	577.6
12.5°	798.2	783.2	744.0	697.2	643.0	590.7	547.7	514.1	493.5	478.5	472.9
15°	794.4	779.5	727.1	656.1	594.4	523.4	463.6	428.1	398.2	383.2	385.1
17.5°	798.2	775.7	702.8	626.2	540.2	463.6	392.5	349.6	319.6	308.4	306.6
20°	800.0	772.0	684.2	585.1	484.1	398.2	330.9	289.7	267.3	259.8	259.8
22.5°	796.3	760.8	656.1	536.5	435.5	343.9	287.9	252.4	237.4	228.1	231.8
25°	813.1	758.9	629.9	495.4	379.5	299.1	256.1	229.9	220.6	215.0	216.8
27.5°	816.9	758.9	609.4	448.6	330.9	265.4	231.8	215.0	207.5	203.8	201.9
30°	831.8	762.7	585.1	401.9	291.6	239.3	213.1	203.8	198.1	196.3	196.3
32.5°	873.0	773.9	558.9	362.6	258.0	216.8	200.0	192.5	188.8	186.9	188.8
35°	921.6	803.8	530.9	321.5	233.7	201.9	188.8	183.2	181.3	181.3	181.3
37.5°	996.3	848.7	506.6	287.9	213.1	186.9	177.6	175.7	173.8	175.7	175.7
40°	1082.3	897.3	484.1	261.7	198.1	177.6	168.2	168.2	166.4	168.2	170.1
42.5°	1181.4	957.1	461.7	235.5	185.1	170.1	162.6	160.8	158.9	162.6	164.5
45°	1317.8	1039.3	446.8	220.6	175.7	162.6	155.1	155.1	153.3	153.3	157.0
47.5°	1431.9	1117.8	446.8	205.6	170.1	157.0	149.5	149.5	145.8	147.7	147.7
50°	1527.2	1185.1	456.1	201.9	162.6	151.4	145.8	142.1	140.2	140.2	140.2
52.5°	1590.8	1226.2	463.6	198.1	158.9	143.9	140.2	138.3	134.6	132.7	134.6
55°	1654.3	1254.3	465.4	198.1	153.3	136.5	132.7	132.7	129.0	127.1	127.1
57.5°	1678.6	1243.1	439.3	194.4	149.5	130.8	127.1	125.2	123.4	121.5	121.5
60°	1667.4	1201.9	381.3	185.1	145.8	127.1	119.6	119.6	119.6	115.9	117.8
62.5°	1590.8	1061.7	306.6	170.1	140.2	119.6	112.2	115.9	115.9	114.0	114.0
65°	1388.9	876.7	248.6	157.0	132.7	114.0	106.5	112.2	114.0	112.2	110.3
67.5°	1110.3	674.8	205.6	142.1	123.4	104.7	99.1	104.7	106.5	104.7	104.7
70°	762.7	435.5	166.4	127.1	110.3	95.3	89.7	93.5	93.5	95.3	95.3
72.5°	394.4	235.5	136.5	108.4	95.3	86.0	80.4	80.4	78.5	78.5	78.5
75°	196.3	160.8	114.0	91.6	80.4	72.9	69.2	65.4	65.4	65.4	65.4
77.5°	136.5	123.4	93.5	72.9	65.4	59.8	59.8	54.2	54.2	54.2	54.2
80°	102.8	97.2	71.0	56.1	50.5	46.7	46.7	44.9	44.9	43.0	43.0
82.5°	72.9	78.5	54.2	41.1	37.4	35.5	35.5	33.6	33.6	29.9	29.9
85°	57.9	65.4	41.1	29.9	28.0	24.3	24.3	22.4	22.4	20.6	18.7
87.5°	16.8	35.5	16.8	11.2	11.2	11.2	11.2	9.3	9.3	7.5	7.5
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)