

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: P675657

Luminaire Tested: **CCW-SA-1D-722-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675657
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

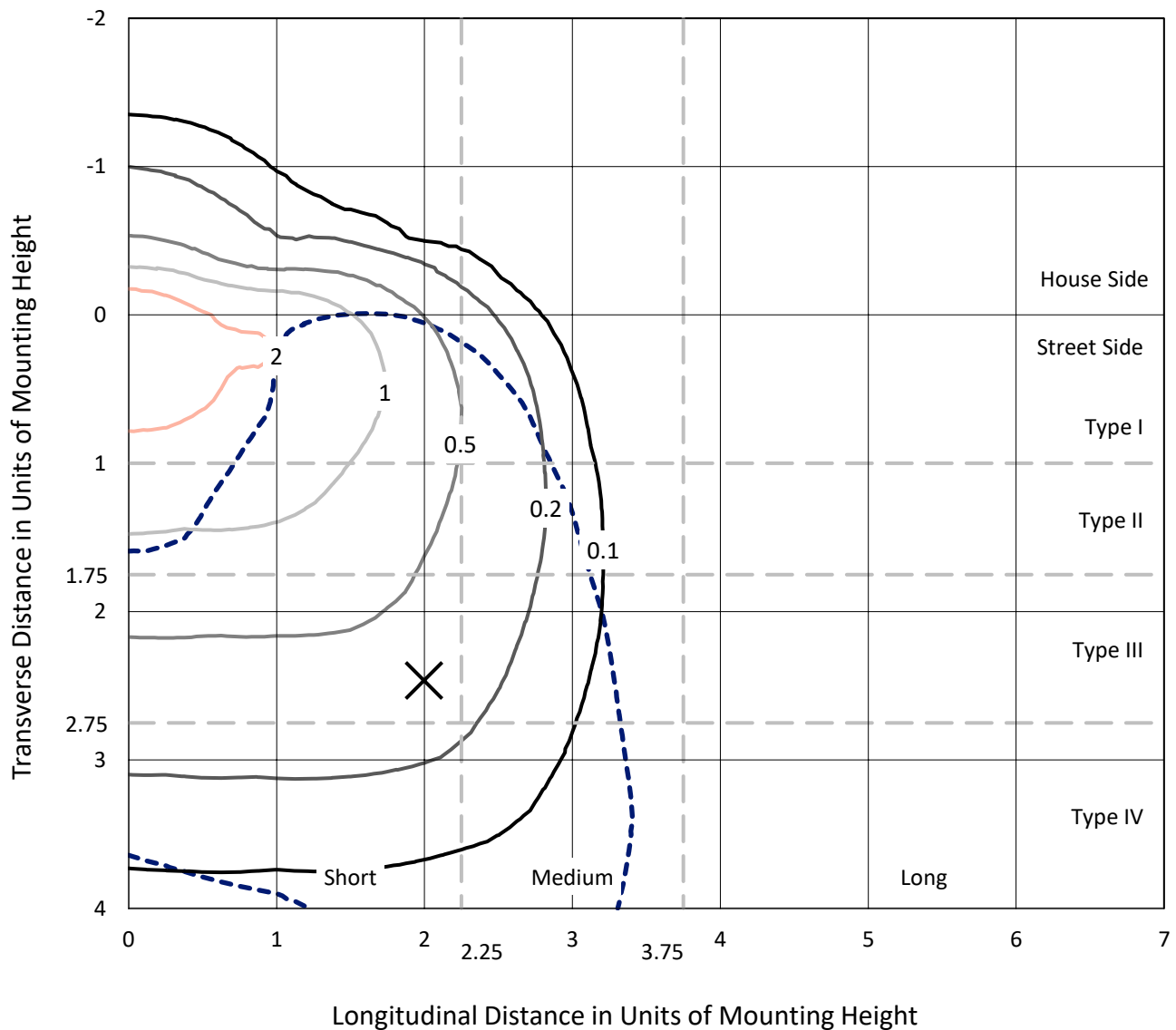
Lumens per Lamp: N/A
Luminaire Lumens: 4025.4 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

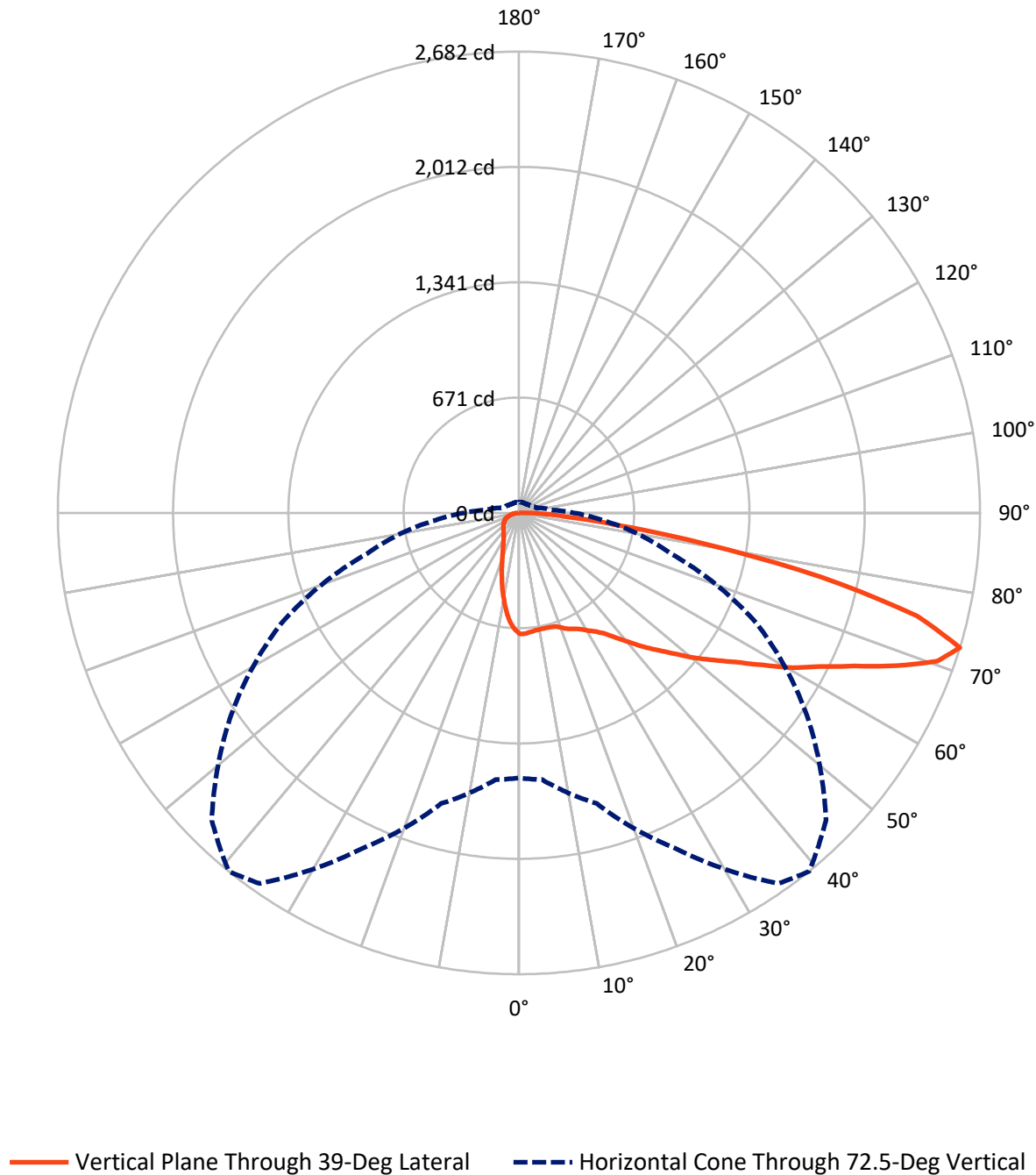
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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	598.3	0.0	598.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3427.2	0.0	3427.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	4025.4	0.0	4025.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.5
10°-20°	158.9	3.9
20°-30°	242.1	6.0
30°-40°	354.2	8.8
40°-50°	542.2	13.5
50°-60°	795.2	19.8
60°-70°	1014.2	25.2
70°-80°	732.8	18.2
80°-90°	123.6	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°	4025.4	100.0
0°-180°	4025.4	100.0



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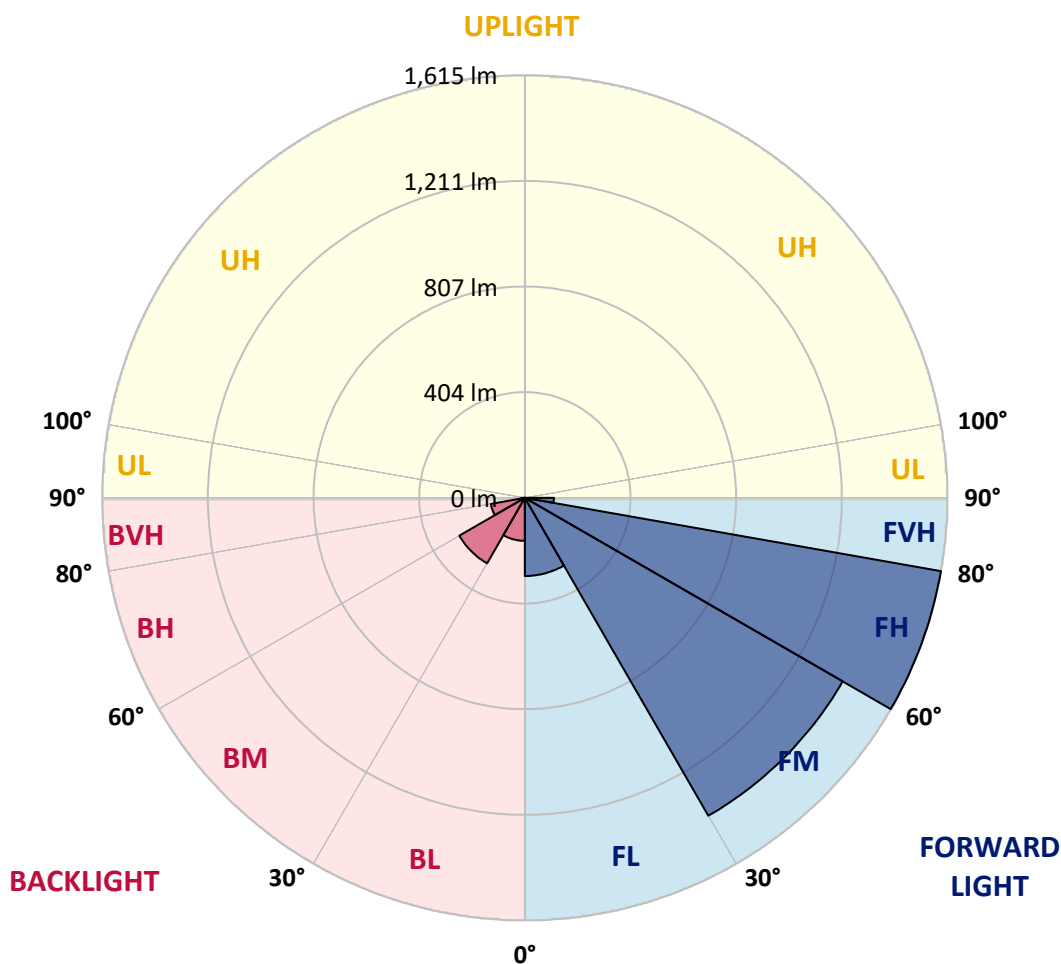
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.7	7.4			
FM	(30°-60°)	1402.6	34.8			
FH	(60°-80°)	1614.8	40.1			G1/1800
FVH	(80°-90°)	111.1	2.8			G2/225
BL	(0°-30°)	164.5	4.1	B1/500		
BM	(30°-60°)	289.0	7.2	B1/1000		
BH	(60°-80°)	132.2	3.3	B1/500		G1/500
BVH	(80°-90°)	12.5	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°	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6
2.5°	715.2	716.7	713.7	710.7	709.2	703.1	709.2	706.1	703.1	703.1	703.1
5°	706.1	707.7	707.7	704.6	706.1	695.6	694.0	695.6	691.0	688.0	686.5
7.5°	692.5	695.6	701.6	700.1	694.0	689.5	691.0	689.5	682.0	677.4	665.3
10°	682.0	685.0	688.0	691.0	689.5	688.0	686.5	680.4	678.9	668.3	656.2
12.5°	671.4	671.4	672.9	685.0	686.5	686.5	677.4	677.4	672.9	671.4	653.2
15°	660.8	665.3	677.4	680.4	686.5	689.5	685.0	685.0	677.4	666.8	653.2
17.5°	663.8	671.4	683.5	691.0	694.0	694.0	700.1	695.6	685.0	678.9	665.3
20°	678.9	680.4	695.6	709.2	712.2	712.2	706.1	701.6	694.0	683.5	665.3
22.5°	688.0	698.6	716.7	724.3	733.4	733.4	725.8	715.2	704.6	694.0	674.4
25°	727.3	728.8	736.4	748.5	753.0	747.0	739.4	727.3	713.7	703.1	685.0
27.5°	754.5	762.1	771.2	777.2	769.7	765.1	759.1	745.5	734.9	725.8	700.1
30°	804.4	795.4	801.4	804.4	790.8	793.8	777.2	765.1	753.0	753.0	724.3
32.5°	834.7	842.2	836.2	834.7	824.1	822.6	812.0	798.4	790.8	799.9	760.6
35°	887.6	883.1	883.1	881.5	869.5	861.9	861.9	837.7	845.3	864.9	816.5
37.5°	914.8	913.3	922.4	929.9	917.8	922.4	917.8	907.3	910.3	945.1	886.1
40°	942.0	952.6	970.8	973.8	981.3	987.4	984.4	982.9	995.0	1050.9	979.8
42.5°	967.7	976.8	1004.0	1028.2	1046.4	1066.0	1067.5	1067.5	1106.8	1187.0	1093.2
45°	1001.0	1008.6	1046.4	1094.8	1125.0	1138.6	1150.7	1164.3	1217.2	1312.5	1214.2
47.5°	1046.4	1052.4	1097.8	1158.3	1217.2	1224.8	1249.0	1264.1	1344.2	1441.0	1338.2
50°	1111.4	1106.8	1143.1	1230.8	1288.3	1324.6	1359.4	1386.6	1465.2	1571.1	1435.0
52.5°	1164.3	1164.3	1191.5	1308.0	1386.6	1421.4	1457.7	1495.5	1586.2	1701.1	1513.6
55°	1255.0	1246.0	1262.6	1383.6	1497.0	1530.2	1599.8	1631.5	1719.2	1797.9	1580.1
57.5°	1317.0	1321.6	1341.2	1483.4	1627.0	1667.8	1737.4	1760.1	1837.2	1899.2	1628.5
60°	1398.7	1383.6	1425.9	1593.7	1770.7	1828.1	1885.6	1899.2	1956.6	1964.2	1651.2
62.5°	1477.3	1474.3	1510.6	1704.1	1924.9	1965.7	2024.7	2039.8	2064.0	2015.6	1619.4
65°	1525.7	1545.4	1613.4	1825.1	2100.3	2145.7	2204.6	2174.4	2147.2	1970.2	1463.7
67.5°	1592.2	1601.3	1705.6	1956.6	2302.9	2371.0	2422.4	2302.9	2100.3	1784.3	1232.4
70°	1607.3	1631.5	1767.6	2094.2	2511.6	2581.1	2584.2	2259.1	1929.4	1451.6	893.6
72.5°	1540.8	1557.4	1749.5	2151.7	2631.0	2682.4	2526.7	2042.8	1528.7	914.8	486.9
75°	1295.9	1342.7	1522.7	1974.8	2411.8	2392.1	2141.1	1559.0	917.8	405.2	205.6
77.5°	902.7	904.2	1091.7	1436.5	1805.4	1800.9	1527.2	904.2	393.1	163.3	121.0
80°	400.7	429.4	542.8	774.2	1096.3	1096.3	890.6	449.1	196.6	105.8	83.2
82.5°	235.9	245.0	290.3	361.4	533.8	562.5	426.4	299.4	134.6	66.5	51.4
85°	173.9	189.0	216.2	217.7	252.5	257.1	235.9	260.1	92.2	36.3	42.3
87.5°	130.0	139.1	172.4	143.6	134.6	127.0	145.2	266.1	34.8	18.1	13.6
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°	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6
2.5°	697.1	697.1	694.0	688.0	688.0	675.9	678.9	682.0	674.4	674.4	675.9
5°	686.5	680.4	672.9	663.8	657.8	641.1	638.1	627.5	626.0	623.0	618.4
7.5°	665.3	656.2	642.6	629.0	609.4	594.3	576.1	561.0	554.9	550.4	548.9
10°	645.7	644.1	621.5	594.3	564.0	535.3	508.1	488.4	476.3	468.7	467.2
12.5°	645.7	633.6	601.8	564.0	520.2	477.8	443.0	415.8	399.2	387.1	382.6
15°	642.6	630.5	588.2	530.7	480.8	423.4	375.0	346.3	322.1	310.0	311.5
17.5°	645.7	627.5	568.5	506.5	437.0	375.0	317.5	282.8	258.6	249.5	248.0
20°	647.2	624.5	553.4	473.3	391.6	322.1	267.6	234.4	216.2	210.2	210.2
22.5°	644.1	615.4	530.7	434.0	352.3	278.2	232.9	204.1	192.0	184.5	187.5
25°	657.8	613.9	509.6	400.7	307.0	241.9	207.2	186.0	178.4	173.9	175.4
27.5°	660.8	613.9	492.9	362.9	267.6	214.7	187.5	173.9	167.8	164.8	163.3
30°	672.9	616.9	473.3	325.1	235.9	193.5	172.4	164.8	160.3	158.8	158.8
32.5°	706.1	626.0	452.1	293.3	208.7	175.4	161.8	155.7	152.7	151.2	152.7
35°	745.5	650.2	429.4	260.1	189.0	163.3	152.7	148.2	146.7	146.7	146.7
37.5°	805.9	686.5	409.8	232.9	172.4	151.2	143.6	142.1	140.6	142.1	142.1
40°	875.5	725.8	391.6	211.7	160.3	143.6	136.1	136.1	134.6	136.1	137.6
42.5°	955.6	774.2	373.5	190.5	149.7	137.6	131.6	130.0	128.5	131.6	133.1
45°	1066.0	840.7	361.4	178.4	142.1	131.6	125.5	125.5	124.0	124.0	127.0
47.5°	1158.3	904.2	361.4	166.3	137.6	127.0	121.0	121.0	117.9	119.5	119.5
50°	1235.4	958.7	368.9	163.3	131.6	122.5	117.9	114.9	113.4	113.4	113.4
52.5°	1286.8	991.9	375.0	160.3	128.5	116.4	113.4	111.9	108.9	107.4	108.9
55°	1338.2	1014.6	376.5	160.3	124.0	110.4	107.4	107.4	104.3	102.8	102.8
57.5°	1357.9	1005.5	355.3	157.3	121.0	105.8	102.8	101.3	99.8	98.3	98.3
60°	1348.8	972.3	308.5	149.7	117.9	102.8	96.8	96.8	96.8	93.7	95.3
62.5°	1286.8	858.9	248.0	137.6	113.4	96.8	90.7	93.7	93.7	92.2	92.2
65°	1123.5	709.2	201.1	127.0	107.4	92.2	86.2	90.7	92.2	90.7	89.2
67.5°	898.2	545.9	166.3	114.9	99.8	84.7	80.1	84.7	86.2	84.7	84.7
70°	616.9	352.3	134.6	102.8	89.2	77.1	72.6	75.6	75.6	77.1	77.1
72.5°	319.1	190.5	110.4	87.7	77.1	69.6	65.0	65.0	63.5	63.5	63.5
75°	158.8	130.0	92.2	74.1	65.0	59.0	55.9	52.9	52.9	52.9	52.9
77.5°	110.4	99.8	75.6	59.0	52.9	48.4	48.4	43.9	43.9	43.9	43.9
80°	83.2	78.6	57.5	45.4	40.8	37.8	37.8	36.3	36.3	34.8	34.8
82.5°	59.0	63.5	43.9	33.3	30.2	28.7	28.7	27.2	27.2	24.2	24.2
85°	46.9	52.9	33.3	24.2	22.7	19.7	19.7	18.1	18.1	16.6	15.1
87.5°	13.6	28.7	13.6	9.1	9.1	9.1	9.1	7.6	7.6	6.0	6.0
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)