

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: P672049

Luminaire Tested: **CCP-SA-2A-850-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ AFL
distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4818.2 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

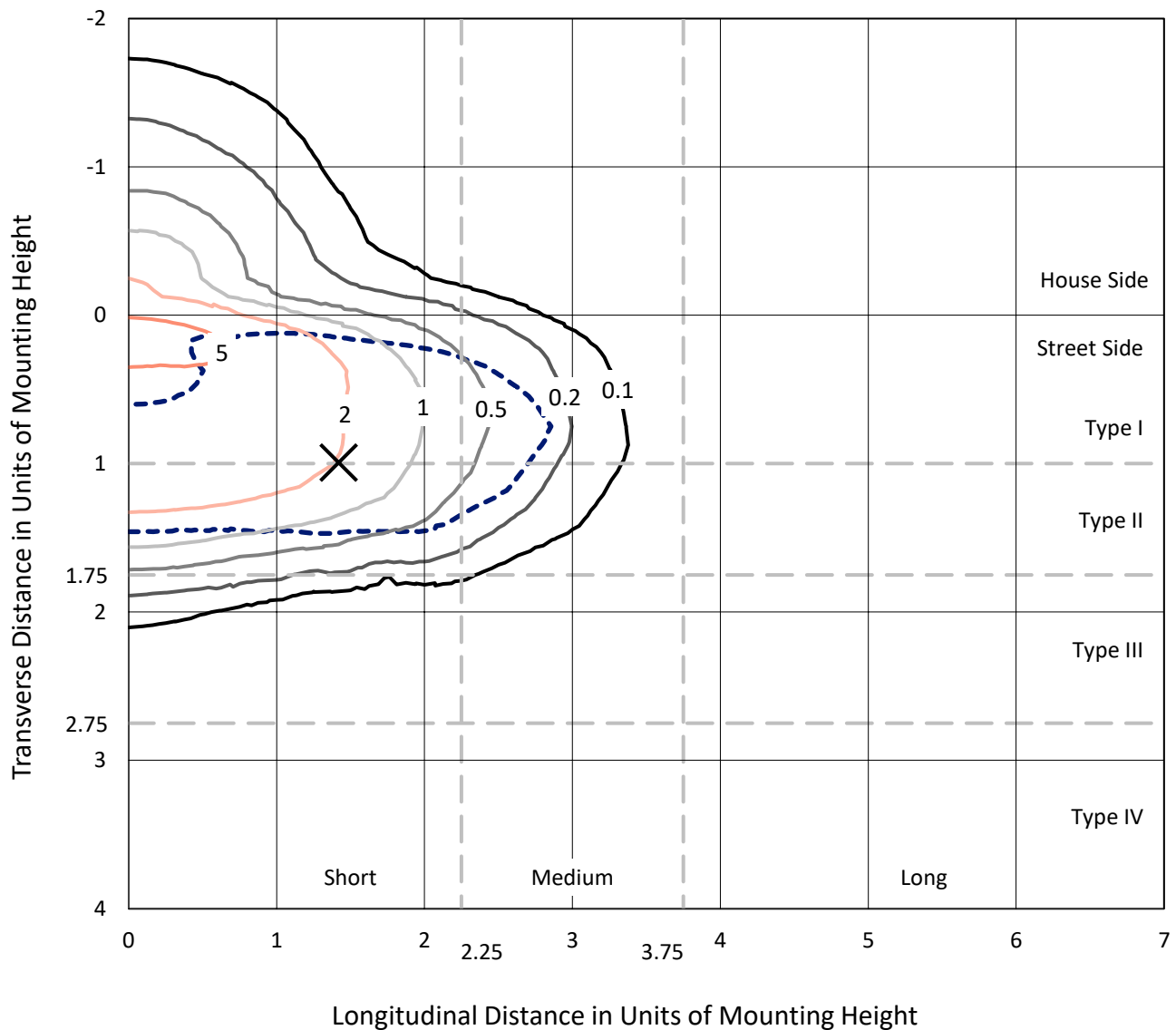
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

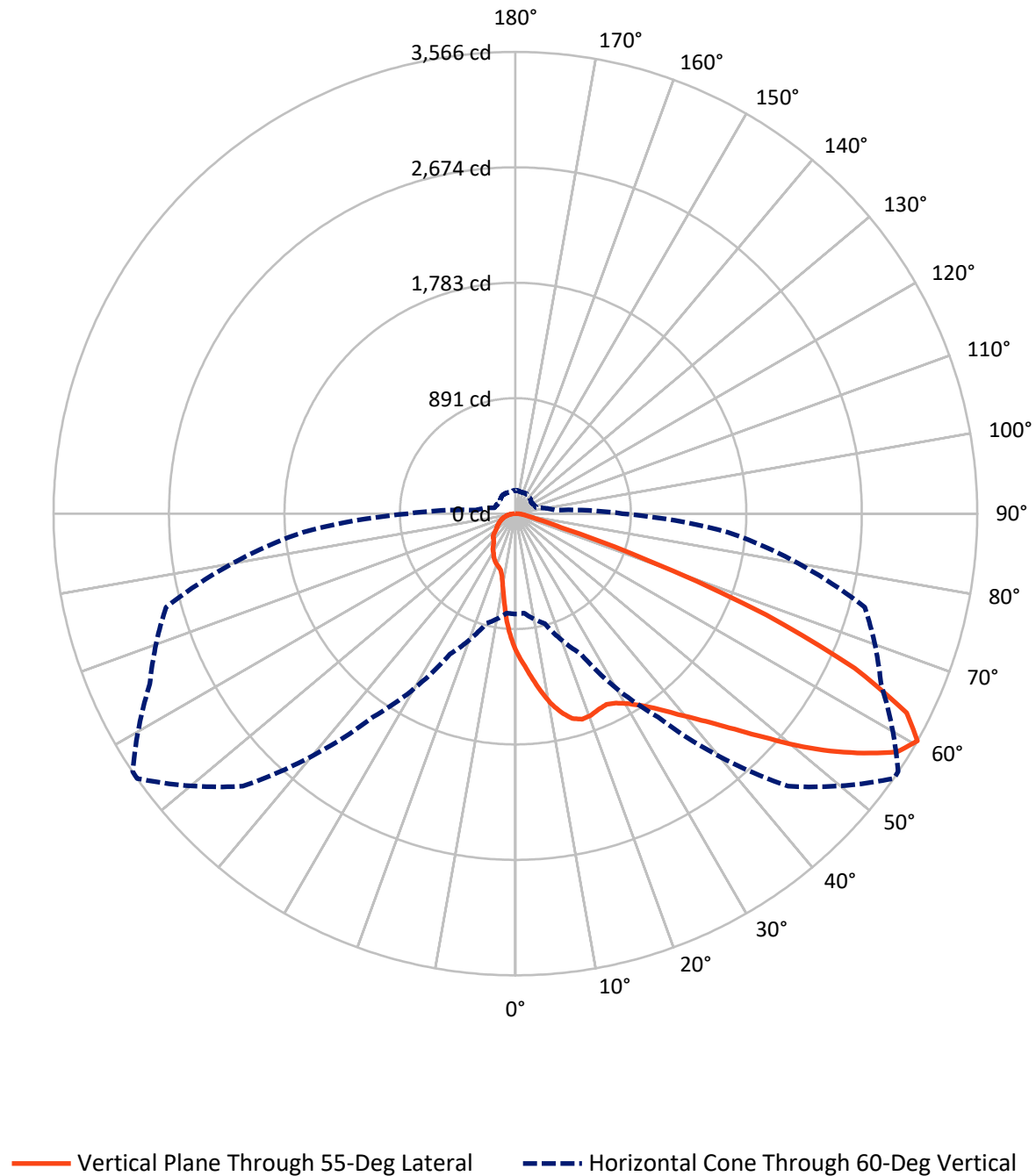


Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.6	0.0	692.6
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4125.6	0.0	4125.6
	% Fixture	85.6	0.0	85.6
Total	Lumens	4818.2	0.0	4818.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	2.1
10°-20°	283.3	5.9
20°-30°	461.3	9.6
30°-40°	689.5	14.3
40°-50°	1013.3	21.0
50°-60°	1187.7	24.6
60°-70°	783.1	16.3
70°-80°	249.4	5.2
80°-90°	50.7	1.1
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°	4818.2	100.0
0°-180°	4818.2	100.0

Coefficient of Utilization



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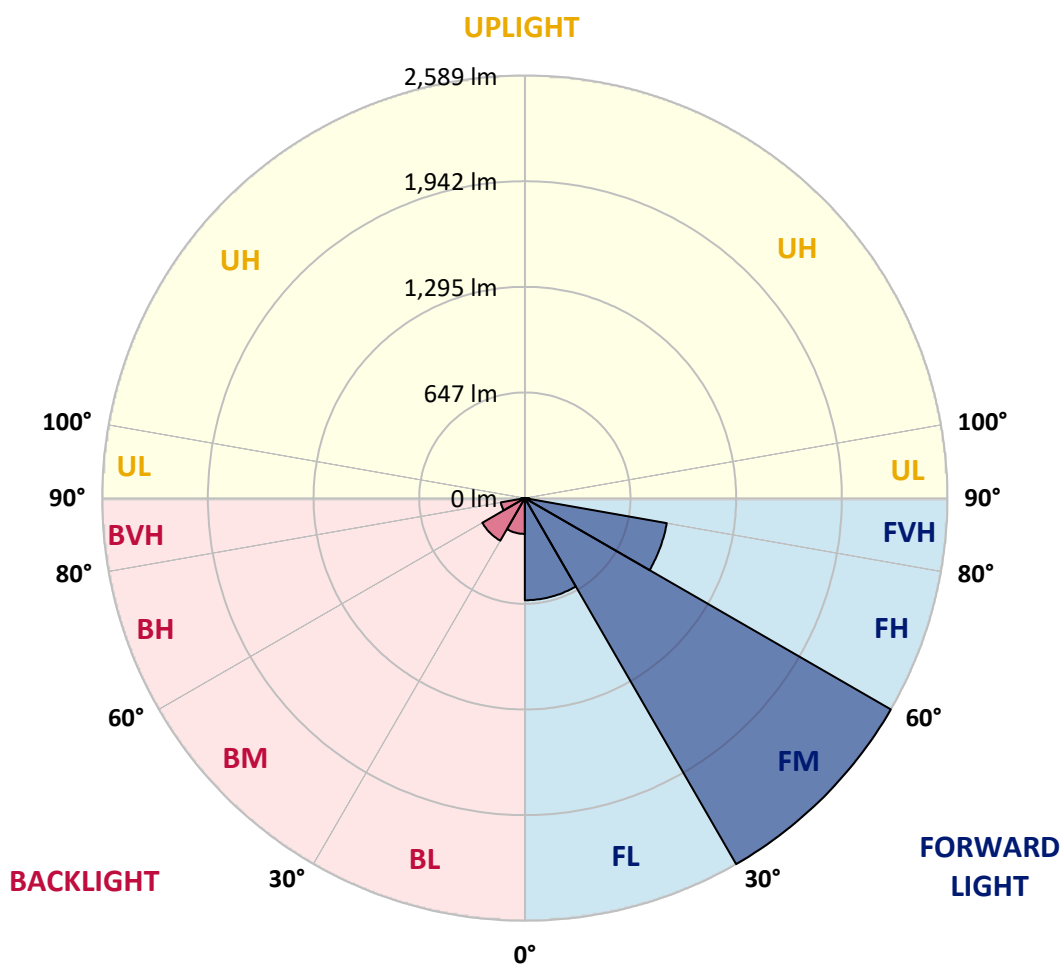
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.4	13.0			
FM	(30°-60°)	2589.4	53.7			
FH	(60°-80°)	883.0	18.3			G1/1800
FVH	(80°-90°)	27.8	0.6			G1/100
BL	(0°-30°)	219.2	4.6	B1/500		
BM	(30°-60°)	301.0	6.2	B1/1000		
BH	(60°-80°)	149.5	3.1	B1/500		G1/500
BVH	(80°-90°)	22.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1243.5	1239.0	1239.0	1227.5	1210.4	1186.6	1158.3	1151.3	1140.5	1112.9	1077.3
5°	1433.2	1428.3	1421.6	1401.4	1369.6	1322.1	1262.4	1251.6	1212.8	1155.9	1091.6
7.5°	1558.5	1555.7	1553.6	1536.2	1504.7	1457.9	1378.0	1365.8	1300.1	1205.8	1105.2
10°	1545.6	1554.0	1568.6	1580.9	1587.2	1563.1	1488.0	1473.7	1392.3	1263.8	1125.5
12.5°	1424.4	1436.3	1463.5	1513.5	1571.1	1617.5	1574.9	1566.9	1490.8	1325.2	1151.0
15°	1334.3	1339.2	1352.5	1389.5	1475.4	1599.4	1642.3	1635.0	1582.6	1404.2	1180.3
17.5°	1306.4	1308.5	1311.6	1323.8	1382.5	1528.5	1669.9	1676.9	1671.7	1486.2	1213.5
20°	1320.4	1321.8	1322.1	1324.2	1352.1	1469.1	1662.6	1674.5	1749.9	1568.3	1246.3
22.5°	1374.1	1372.4	1369.9	1361.9	1377.6	1458.6	1643.0	1661.9	1810.3	1643.0	1276.7
25°	1468.1	1465.6	1448.5	1431.8	1438.4	1496.4	1632.5	1652.8	1857.4	1713.6	1299.1
27.5°	1579.8	1577.4	1559.9	1528.1	1521.2	1559.2	1657.0	1669.6	1892.0	1776.1	1308.8
30°	1695.8	1695.8	1674.1	1637.4	1615.1	1631.2	1702.0	1712.2	1918.2	1836.5	1315.1
32.5°	1822.2	1825.7	1792.1	1750.2	1725.4	1716.0	1765.2	1774.0	1956.3	1907.7	1328.4
35°	1984.5	1976.9	1936.0	1880.8	1841.0	1819.7	1843.5	1853.6	2012.1	1996.4	1349.7
37.5°	2167.2	2153.6	2103.3	2037.3	1967.8	1932.2	1947.9	1950.3	2094.9	2112.0	1388.5
40°	2318.0	2315.6	2273.0	2210.5	2122.8	2075.0	2067.3	2068.7	2209.8	2248.9	1447.1
42.5°	2445.2	2436.1	2428.4	2406.4	2313.5	2234.9	2203.5	2203.9	2334.5	2390.3	1506.1
45°	2501.4	2499.6	2522.3	2578.9	2512.2	2419.7	2375.0	2381.3	2477.3	2535.6	1563.1
47.5°	2477.3	2478.7	2539.4	2687.9	2727.3	2656.4	2577.2	2573.3	2615.6	2647.0	1613.3
50°	2262.2	2284.9	2449.3	2698.0	2868.4	2903.7	2814.3	2800.0	2736.7	2735.7	1644.1
52.5°	2099.8	2098.7	2199.7	2595.0	2918.3	3126.8	3046.5	3014.4	2837.0	2785.6	1646.5
55°	1880.5	1879.1	1954.2	2293.6	2819.2	3282.6	3265.4	3225.3	2928.8	2802.0	1629.8
57.5°	1424.1	1450.6	1525.3	1836.1	2504.9	3257.8	3474.6	3441.1	3018.6	2794.7	1626.6
60°	774.9	771.7	880.0	1196.7	1917.9	2976.3	3565.8	3564.0	3113.9	2791.9	1645.8
62.5°	357.2	353.7	375.4	532.9	1099.7	2384.4	3389.8	3414.9	3202.2	2766.4	1644.1
65°	267.1	258.1	228.7	247.9	420.8	1423.4	2879.2	2946.3	3066.0	2661.7	1567.9
67.5°	238.2	229.4	195.2	183.0	211.3	502.2	2088.6	2150.4	2563.9	2465.4	1444.7
70°	218.3	210.6	176.4	157.1	158.5	222.4	1093.4	1214.9	1879.1	2057.5	1231.3
72.5°	199.0	192.4	161.3	138.3	133.4	147.0	372.6	449.4	1168.8	1499.5	918.1
75°	178.8	172.5	145.3	124.0	114.5	109.0	177.4	191.0	618.1	828.0	492.7
77.5°	155.4	151.9	129.6	109.3	101.3	82.4	118.0	124.0	264.7	325.1	234.7
80°	135.1	132.3	115.6	99.2	90.8	63.6	81.4	85.6	130.6	162.4	131.3
82.5°	88.0	95.0	95.7	85.2	80.0	51.0	53.8	56.9	86.6	95.7	57.3
85°	36.3	44.0	66.0	58.7	55.5	43.3	35.6	36.3	53.1	55.9	20.6
87.5°	16.4	18.2	32.5	32.8	28.6	16.4	17.8	19.6	27.2	26.9	9.1
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°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1067.5	1051.5	1022.8	986.2	960.0	940.8	919.8	904.4	887.3	872.3	874.8
5°	1065.1	1034.0	969.8	901.7	835.3	780.8	735.4	701.9	667.3	653.7	652.0
7.5°	1067.2	1014.4	909.0	797.6	696.7	627.2	574.4	542.7	522.8	511.2	511.9
10°	1066.5	995.9	843.3	689.7	579.3	515.8	483.7	473.2	471.4	472.8	474.9
12.5°	1067.5	970.8	769.7	592.6	495.2	462.7	464.1	473.5	479.5	483.3	485.7
15°	1072.1	950.2	694.2	516.1	451.2	452.2	467.2	481.9	490.6	494.8	496.9
17.5°	1078.7	924.4	627.2	458.2	432.7	448.7	468.3	484.0	490.6	493.1	494.8
20°	1079.4	894.7	559.4	418.4	420.4	441.4	458.5	471.1	479.5	482.3	483.7
22.5°	1076.3	854.5	489.9	389.4	406.5	427.4	442.1	456.4	445.2	436.2	433.7
25°	1063.0	803.9	430.6	365.6	389.0	408.6	425.3	409.6	404.4	397.4	398.1
27.5°	1034.4	740.7	374.7	343.3	368.4	396.4	384.1	382.0	375.4	368.4	368.4
30°	996.6	674.0	327.9	319.9	343.6	357.6	360.4	357.2	353.4	344.3	345.0
32.5°	962.8	603.4	294.7	300.3	327.9	327.9	340.1	340.1	326.2	300.7	300.7
35°	929.2	537.1	270.3	283.9	302.1	308.0	324.8	302.8	282.9	271.3	270.6
37.5°	903.1	480.5	254.2	269.9	276.9	291.9	292.3	276.2	269.6	259.1	258.1
40°	887.7	433.0	244.4	263.0	263.7	277.6	254.6	259.1	257.7	249.7	248.6
42.5°	879.3	396.4	237.1	257.0	253.5	239.9	235.7	243.4	245.8	241.7	239.9
45°	872.7	367.7	231.2	236.4	245.5	220.7	219.0	224.9	230.1	229.8	228.4
47.5°	869.2	347.8	225.9	223.5	225.2	209.2	205.7	208.5	215.1	219.3	219.0
50°	855.6	332.4	218.3	210.2	199.0	199.0	197.3	197.3	205.3	213.7	214.4
52.5°	831.5	314.3	207.1	197.7	184.7	190.3	191.0	189.6	198.0	207.1	207.8
55°	804.9	300.7	192.1	186.1	172.9	182.3	185.4	184.0	189.6	195.9	195.6
57.5°	805.3	300.3	179.1	174.6	161.7	172.2	179.8	180.2	179.8	184.4	184.4
60°	825.5	307.3	169.0	159.2	148.8	161.3	173.9	173.9	171.5	178.1	178.8
62.5°	831.5	306.6	162.7	144.6	137.2	151.6	165.2	167.3	165.5	175.0	176.0
65°	779.1	290.2	156.4	131.3	126.8	140.7	154.3	160.3	158.5	170.8	172.2
67.5°	706.4	268.9	146.7	119.4	115.9	130.3	143.2	149.5	149.1	165.2	165.9
70°	609.0	242.7	134.4	107.2	105.5	118.0	129.6	136.2	139.3	157.8	157.5
72.5°	471.8	208.1	115.9	94.3	93.9	105.5	115.6	122.9	128.9	146.7	146.7
75°	304.2	163.8	94.6	81.7	80.3	91.1	101.6	110.0	128.2	156.4	156.1
77.5°	185.8	125.0	76.1	68.1	67.7	77.5	88.0	102.3	140.0	139.3	135.5
80°	111.4	89.7	60.8	54.5	54.5	63.6	75.1	109.7	116.3	132.7	125.4
82.5°	58.0	55.2	45.4	40.2	41.9	49.9	68.4	87.7	95.0	80.7	74.0
85°	23.7	29.3	27.9	25.5	26.5	34.6	66.0	70.2	56.2	59.0	59.4
87.5°	8.0	12.9	12.9	10.1	11.2	24.4	39.1	23.4	28.3	16.8	12.6
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)