

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: P672003

Luminaire Tested: **CCP-SA-1E-827-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672003
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL
distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5071.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

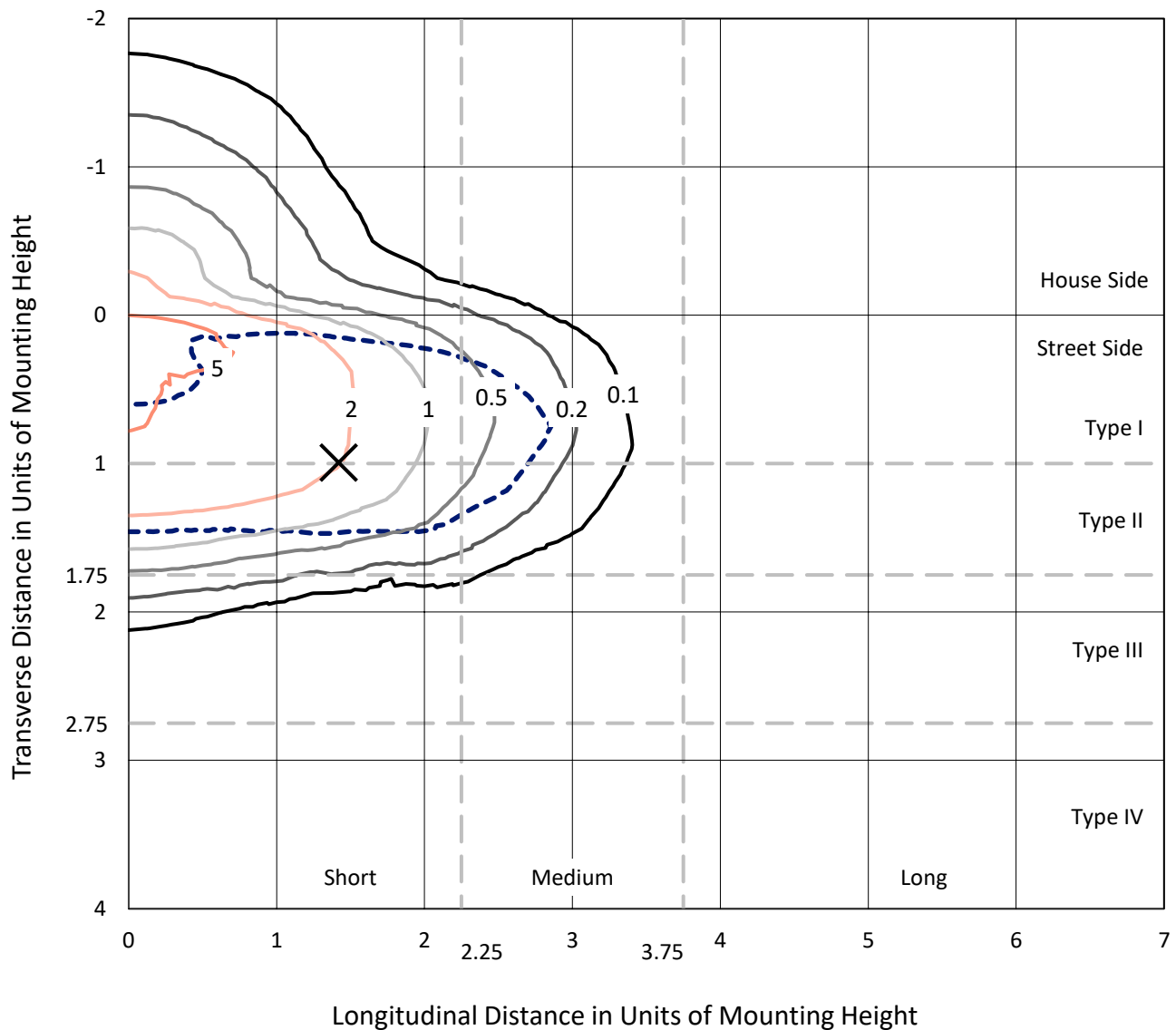
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

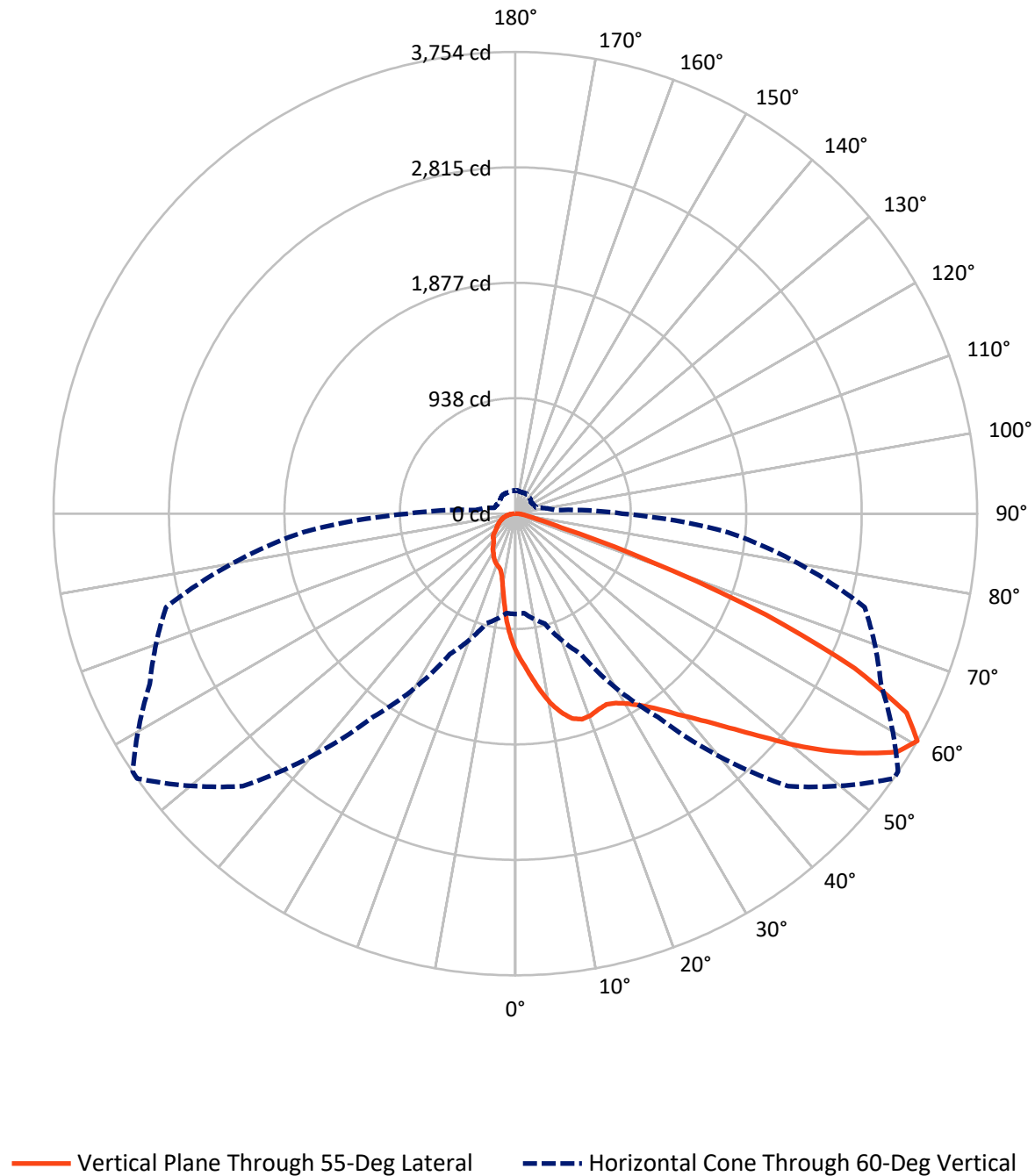
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 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	729.1	0.0	729.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4342.8	0.0	4342.8
	% Fixture	85.6	0.0	85.6
Total	Lumens	5071.9	0.0	5071.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	2.1
10°-20°	298.2	5.9
20°-30°	485.6	9.6
30°-40°	725.8	14.3
40°-50°	1066.7	21.0
50°-60°	1250.2	24.6
60°-70°	824.3	16.3
70°-80°	262.5	5.2
80°-90°	53.4	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°	5071.9	100.0
0°-180°	5071.9	100.0

Coefficient of Utilization



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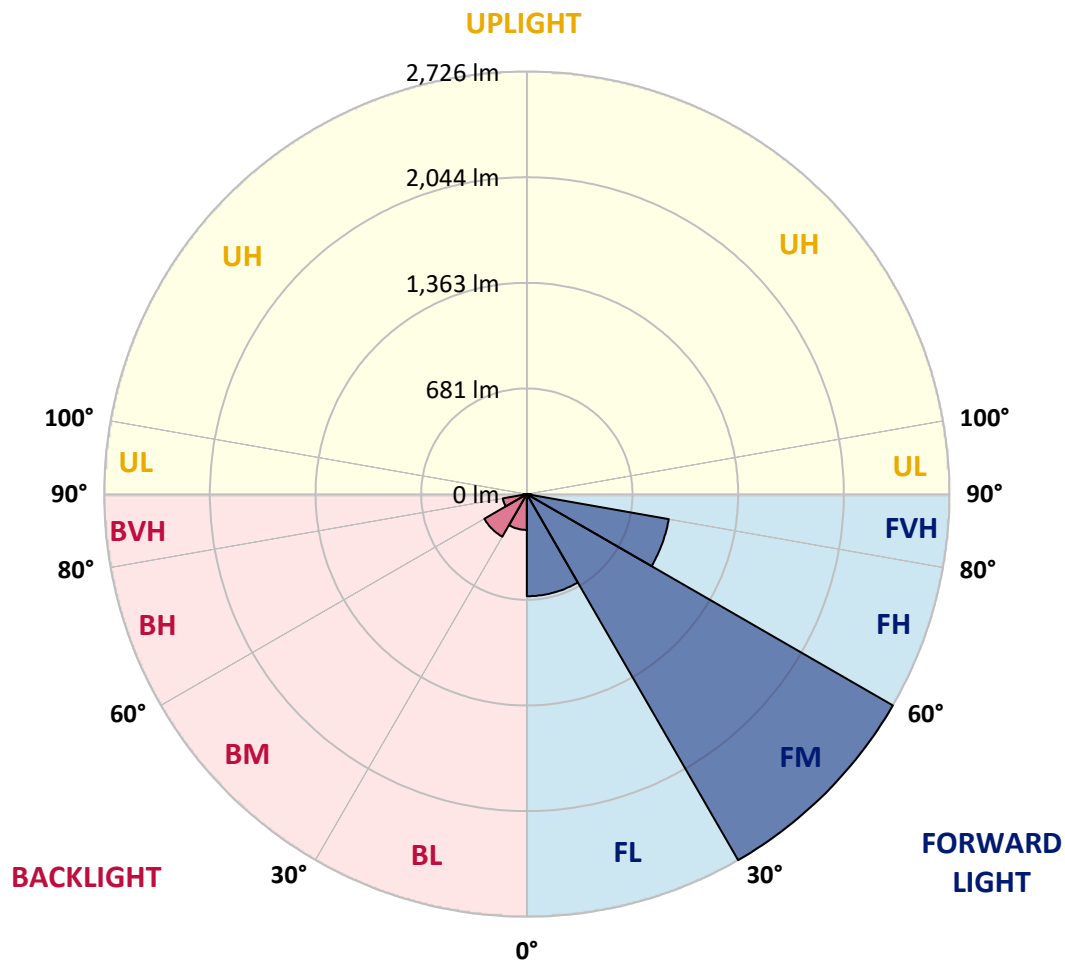
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.3	13.0			
FM	(30°-60°)	2725.8	53.7			
FH	(60°-80°)	929.5	18.3			G1/1800
FVH	(80°-90°)	29.3	0.6			G1/100
BL	(0°-30°)	230.8	4.6	B1/500		
BM	(30°-60°)	316.9	6.2	B1/1000		
BH	(60°-80°)	157.3	3.1	B1/500		G1/500
BVH	(80°-90°)	24.1	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°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1309.0	1304.2	1304.2	1292.1	1274.1	1249.1	1219.3	1212.0	1200.6	1171.5	1134.0
5°	1508.6	1503.5	1496.5	1475.1	1441.7	1391.7	1328.8	1317.5	1276.6	1216.7	1149.1
7.5°	1640.6	1637.6	1635.4	1617.0	1584.0	1534.7	1450.5	1437.7	1368.5	1269.3	1163.4
10°	1627.0	1635.8	1651.2	1664.1	1670.7	1645.3	1566.3	1551.2	1465.6	1330.3	1184.7
12.5°	1499.4	1511.9	1540.6	1593.1	1653.8	1702.7	1657.8	1649.4	1569.3	1395.0	1211.6
15°	1404.6	1409.7	1423.7	1462.6	1553.1	1683.6	1728.8	1721.1	1665.9	1478.1	1242.5
17.5°	1375.2	1377.4	1380.7	1393.5	1455.3	1609.0	1757.8	1765.2	1759.7	1564.5	1277.4
20°	1389.9	1391.3	1391.7	1393.9	1423.3	1546.5	1750.1	1762.6	1842.0	1650.9	1311.9
22.5°	1446.5	1444.6	1442.1	1433.6	1450.2	1535.4	1729.5	1749.4	1905.6	1729.5	1343.9
25°	1545.4	1542.8	1524.8	1507.1	1514.1	1575.1	1718.5	1739.8	1955.2	1803.8	1367.4
27.5°	1663.0	1660.4	1642.0	1608.6	1601.2	1641.3	1744.2	1757.5	1991.6	1869.6	1377.7
30°	1785.0	1785.0	1762.2	1723.6	1700.1	1717.0	1791.6	1802.3	2019.2	1933.2	1384.4
32.5°	1918.1	1921.8	1886.5	1842.4	1816.3	1806.3	1858.2	1867.4	2059.3	2008.2	1398.3
35°	2089.0	2080.9	2037.9	1979.9	1937.9	1915.5	1940.5	1951.2	2118.1	2101.5	1420.7
37.5°	2281.3	2266.9	2214.0	2144.5	2071.4	2033.9	2050.4	2053.0	2205.2	2223.2	1461.5
40°	2440.1	2437.5	2392.7	2326.9	2234.6	2184.2	2176.1	2177.6	2326.1	2367.3	1523.3
42.5°	2573.9	2564.3	2556.2	2533.1	2435.3	2352.6	2319.5	2319.9	2457.4	2516.2	1585.4
45°	2633.1	2631.2	2655.1	2714.7	2644.5	2547.0	2500.0	2506.6	2607.7	2669.1	1645.3
47.5°	2607.7	2609.2	2673.1	2829.4	2870.9	2796.3	2712.8	2708.8	2753.3	2786.3	1698.3
50°	2381.3	2405.2	2578.3	2840.0	3019.4	3056.5	2962.4	2947.4	2880.8	2879.7	1730.6
52.5°	2210.3	2209.2	2315.5	2731.6	3072.0	3291.4	3206.9	3173.1	2986.3	2932.3	1733.2
55°	1979.5	1978.0	2057.0	2414.3	2967.6	3455.4	3437.4	3395.1	3083.0	2949.6	1715.6
57.5°	1499.0	1527.0	1605.6	1932.8	2636.7	3429.3	3657.5	3622.3	3177.5	2941.8	1712.2
60°	815.7	812.4	926.3	1259.7	2018.8	3133.0	3753.5	3751.6	3277.8	2938.9	1732.5
62.5°	376.0	372.4	395.2	560.9	1157.5	2509.9	3568.2	3594.7	3370.8	2912.1	1730.6
65°	281.2	271.7	240.8	261.0	442.9	1498.3	3030.8	3101.4	3227.5	2801.8	1650.5
67.5°	250.7	241.5	205.5	192.6	222.4	528.6	2198.6	2263.6	2698.9	2595.2	1520.7
70°	229.7	221.7	185.6	165.4	166.9	234.2	1150.9	1278.9	1978.0	2165.9	1296.1
72.5°	209.5	202.5	169.8	145.6	140.4	154.8	392.2	473.1	1230.3	1578.4	966.4
75°	188.2	181.6	152.9	130.5	120.6	114.7	186.7	201.1	650.6	871.6	518.7
77.5°	163.6	159.9	136.4	115.1	106.6	86.8	124.2	130.5	278.6	342.2	247.0
80°	142.3	139.3	121.7	104.4	95.6	66.9	85.6	90.1	137.5	170.9	138.2
82.5°	92.6	100.0	100.7	89.7	84.2	53.7	56.6	59.9	91.2	100.7	60.3
85°	38.2	46.3	69.5	61.8	58.4	45.6	37.5	38.2	55.9	58.8	21.7
87.5°	17.3	19.1	34.2	34.6	30.1	17.3	18.7	20.6	28.7	28.3	9.6
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°	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8	1124.8
2.5°	1123.7	1106.8	1076.7	1038.1	1010.5	990.3	968.2	952.1	934.1	918.2	920.8
5°	1121.2	1088.4	1020.8	949.1	879.3	821.9	774.1	738.9	702.5	688.1	686.3
7.5°	1123.4	1067.9	956.8	839.6	733.3	660.2	604.7	571.2	550.3	538.2	538.9
10°	1122.6	1048.4	887.7	726.0	609.8	542.9	509.1	498.1	496.2	497.7	499.9
12.5°	1123.7	1021.9	810.2	623.8	521.2	487.1	488.5	498.5	504.7	508.7	511.3
15°	1128.5	1000.2	730.8	543.3	474.9	476.0	491.8	507.3	516.5	520.9	523.1
17.5°	1135.5	973.0	660.2	482.3	455.4	472.4	492.9	509.5	516.5	519.0	520.9
20°	1136.2	941.8	588.9	440.4	442.6	464.6	482.6	495.9	504.7	507.6	509.1
22.5°	1132.9	899.5	515.7	409.9	427.9	449.9	465.4	480.4	468.7	459.1	456.5
25°	1119.0	846.2	453.2	384.9	409.5	430.1	447.7	431.2	425.7	418.3	419.1
27.5°	1088.8	779.7	394.4	361.3	387.8	417.2	404.4	402.1	395.2	387.8	387.8
30°	1049.1	709.5	345.2	336.7	361.7	376.4	379.4	376.0	372.0	362.4	363.2
32.5°	1013.5	635.2	310.2	316.1	345.2	345.2	358.0	358.0	343.3	316.5	316.5
35°	978.2	565.4	284.5	298.9	318.0	324.2	341.9	318.7	297.7	285.6	284.9
37.5°	950.6	505.8	267.6	284.1	291.5	307.3	307.7	290.8	283.8	272.8	271.7
40°	934.4	455.8	257.3	276.8	277.5	292.2	268.0	272.8	271.3	262.8	261.7
42.5°	925.6	417.2	249.6	270.5	266.9	252.5	248.1	256.2	258.8	254.4	252.5
45°	918.6	387.1	243.3	248.9	258.4	232.3	230.5	236.7	242.2	241.9	240.4
47.5°	914.9	366.1	237.8	235.3	237.1	220.2	216.5	219.5	226.4	230.8	230.5
50°	900.6	349.9	229.7	221.3	209.5	209.5	207.7	207.7	216.1	225.0	225.7
52.5°	875.2	330.8	218.0	208.1	194.5	200.3	201.1	199.6	208.4	218.0	218.7
55°	847.3	316.5	202.2	195.9	182.0	191.9	195.2	193.7	199.6	206.2	205.9
57.5°	847.7	316.1	188.6	183.8	170.2	181.2	189.3	189.7	189.3	194.1	194.1
60°	869.0	323.5	177.9	167.6	156.6	169.8	183.1	183.1	180.5	187.5	188.2
62.5°	875.2	322.7	171.3	152.2	144.5	159.5	173.9	176.1	174.2	184.2	185.3
65°	820.1	305.5	164.7	138.2	133.4	148.1	162.5	168.7	166.9	179.8	181.2
67.5°	743.6	283.0	154.4	125.7	122.0	137.1	150.7	157.3	157.0	173.9	174.6
70°	641.1	255.5	141.5	112.9	111.0	124.2	136.4	143.4	146.7	166.2	165.8
72.5°	496.6	219.1	122.0	99.2	98.9	111.0	121.7	129.4	135.6	154.4	154.4
75°	320.2	172.4	99.6	86.0	84.5	95.9	107.0	115.8	134.9	164.7	164.3
77.5°	195.6	131.6	80.1	71.7	71.3	81.6	92.6	107.7	147.4	146.7	142.6
80°	117.3	94.5	64.0	57.3	57.3	66.9	79.0	115.4	122.4	139.7	132.0
82.5°	61.0	58.1	47.8	42.3	44.1	52.6	72.0	92.3	100.0	84.9	77.9
85°	25.0	30.9	29.4	26.8	27.9	36.4	69.5	73.9	59.2	62.1	62.5
87.5°	8.5	13.6	13.6	10.7	11.8	25.7	41.2	24.6	29.8	17.6	13.2
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)