

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: P674487

Luminaire Tested: **CCP-SA-2B-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674487
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

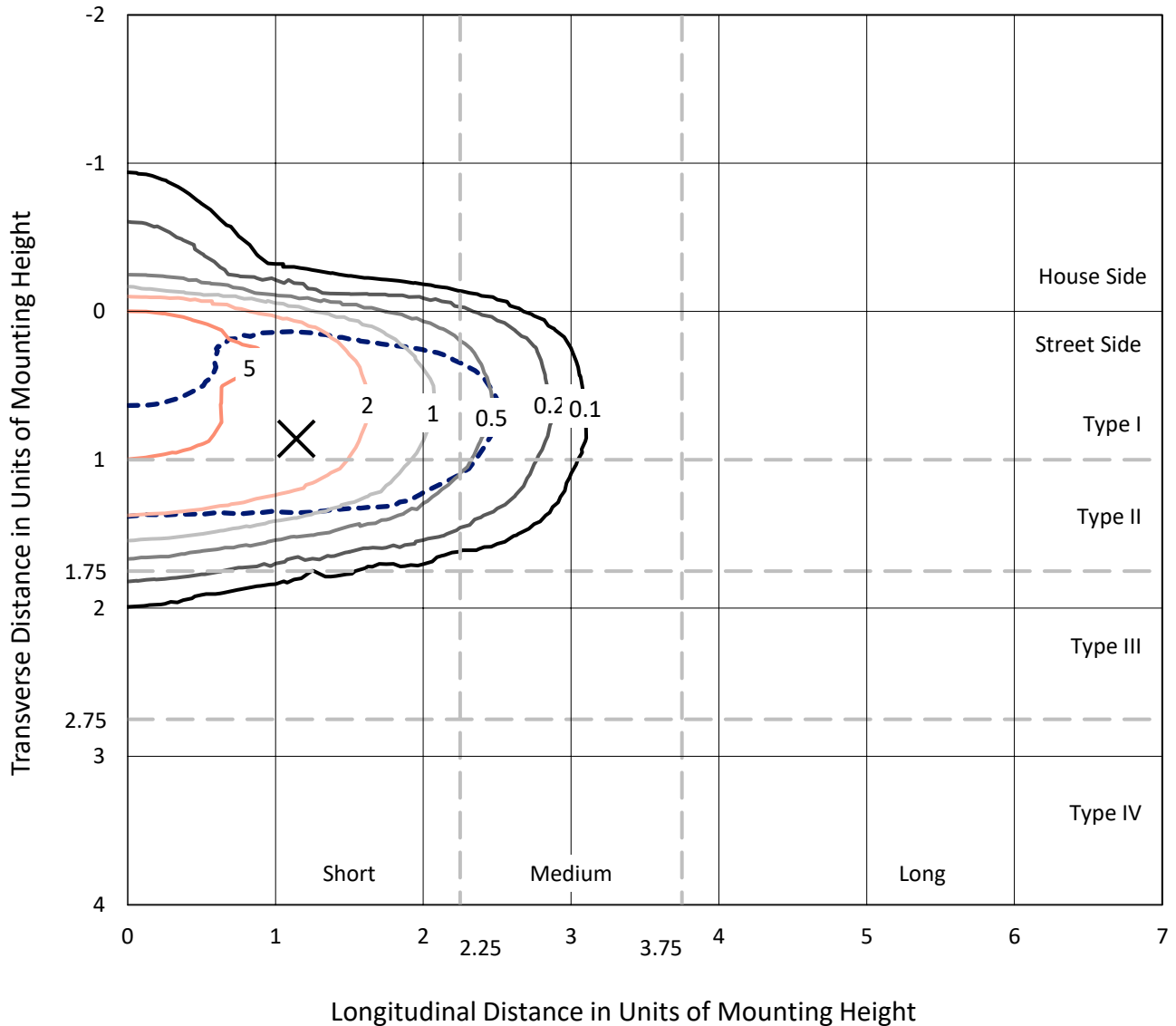
Lumens per Lamp: N/A
Luminaire Lumens: 4882.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

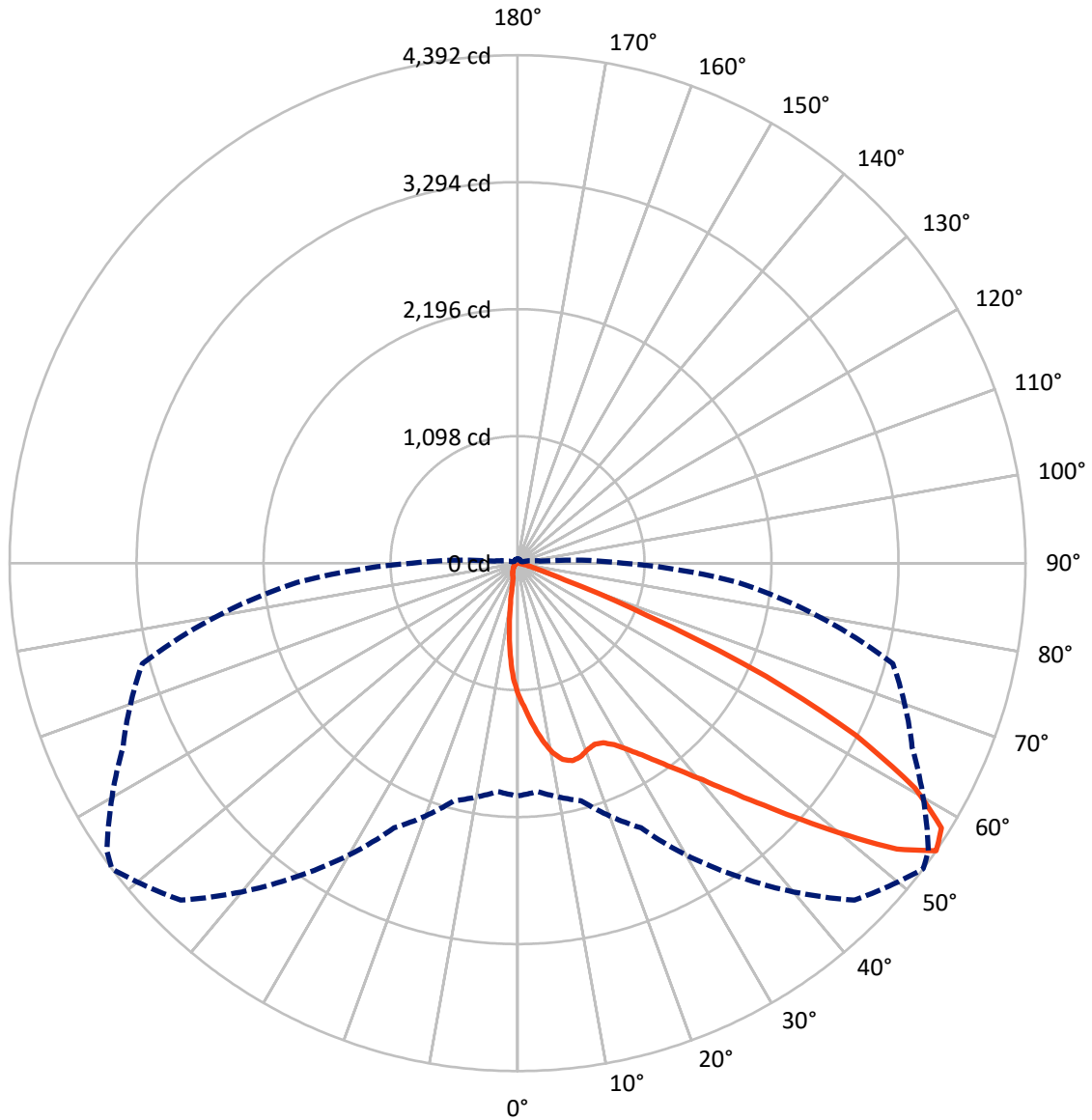
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	263.9	0.0	263.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4618.9	0.0	4618.9
	% Fixture	94.6	0.0	94.6
Total	Lumens	4882.9	0.0	4882.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.1
10°-20°	267.0	5.5
20°-30°	446.8	9.2
30°-40°	731.0	15.0
40°-50°	1175.0	24.1
50°-60°	1326.6	27.2
60°-70°	707.6	14.5
70°-80°	116.3	2.4
80°-90°	10.4	0.2
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°	4882.9	100.0
0°-180°	4882.9	100.0



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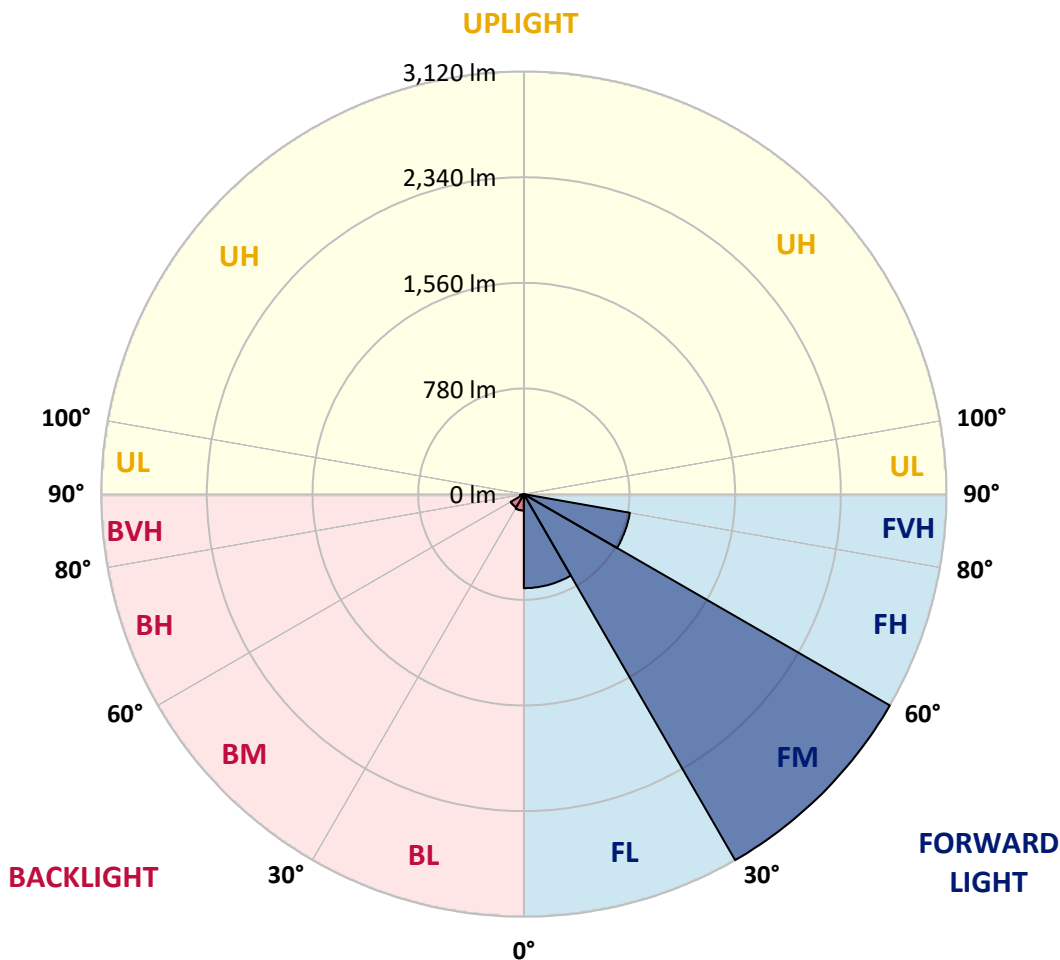
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.1	14.2			
FM (30°-60°)	3120.2	63.9			
FH (60°-80°)	795.0	16.3			G1/1800
FVH (80°-90°)	9.6	0.2			G0/10
BL (0°-30°)	121.8	2.5	B1/500		
BM (30°-60°)	112.4	2.3	B0/220		
BH (60°-80°)	28.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
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°	53°	55°	65°	75°	85°
0°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1370.3	1362.2	1366.9	1354.5	1331.8	1303.6	1261.2	1263.3	1230.0	1200.9	1160.7
5°	1596.6	1588.1	1585.5	1553.8	1522.2	1471.3	1408.4	1398.1	1336.9	1262.9	1178.6
7.5°	1716.0	1708.7	1714.3	1702.7	1671.5	1625.3	1545.7	1538.0	1443.5	1331.4	1207.3
10°	1661.2	1658.7	1682.2	1709.6	1734.8	1729.2	1665.5	1653.5	1547.4	1406.7	1236.8
12.5°	1514.0	1522.2	1552.1	1602.6	1680.5	1753.6	1743.4	1745.5	1653.5	1488.4	1269.3
15°	1427.6	1437.5	1454.6	1480.7	1576.5	1706.6	1772.9	1794.3	1755.3	1579.5	1307.8
17.5°	1420.4	1428.5	1431.1	1440.9	1496.9	1630.8	1760.9	1801.5	1846.0	1665.5	1351.1
20°	1476.4	1479.8	1477.7	1470.4	1490.5	1589.8	1723.3	1781.4	1920.9	1757.1	1389.1
22.5°	1582.1	1576.9	1570.5	1543.6	1542.3	1601.3	1702.7	1763.5	1965.4	1832.8	1414.4
25°	1713.0	1702.3	1693.3	1655.2	1637.3	1661.6	1721.1	1769.9	2005.6	1906.4	1432.3
27.5°	1855.9	1859.3	1837.1	1785.7	1757.5	1752.3	1778.0	1814.4	2044.5	1972.2	1442.2
30°	2008.6	2010.3	1981.2	1928.2	1902.5	1869.6	1867.9	1889.7	2086.5	2048.0	1451.6
32.5°	2182.7	2187.4	2139.9	2084.8	2039.8	1997.1	1976.1	1994.5	2161.8	2146.8	1470.8
35°	2434.3	2413.8	2349.6	2266.2	2202.4	2146.4	2114.3	2126.3	2261.9	2265.3	1509.3
37.5°	2693.5	2691.4	2620.4	2500.2	2395.8	2326.0	2271.3	2291.0	2402.6	2424.0	1570.9
40°	2935.3	2940.8	2879.2	2774.4	2640.1	2520.3	2461.7	2474.9	2589.6	2616.5	1645.8
42.5°	3093.1	3090.1	3094.8	3064.9	2930.1	2788.9	2700.8	2708.1	2806.9	2821.0	1739.5
45°	3165.9	3154.3	3194.5	3289.5	3236.0	3087.6	2987.0	2978.0	3032.4	3028.5	1824.6
47.5°	3103.0	3081.6	3174.0	3402.9	3506.4	3461.5	3317.7	3301.5	3255.3	3224.5	1913.2
50°	2790.2	2780.8	2978.5	3349.0	3676.2	3807.2	3701.5	3641.2	3454.2	3369.1	1959.8
52.5°	2492.9	2466.8	2600.3	3073.9	3600.5	4085.2	4107.1	3999.7	3619.3	3410.6	1944.0
55°	2013.7	1981.7	2127.1	2525.4	3300.6	4120.7	4392.0	4335.9	3763.9	3359.2	1911.9
57.5°	1223.1	1191.5	1405.4	1808.8	2639.6	3825.6	4321.8	4378.7	3875.2	3302.8	1891.0
60°	514.2	494.1	578.0	863.3	1685.6	3144.0	3949.6	4091.7	3896.1	3225.3	1899.5
62.5°	267.4	258.4	263.1	345.7	681.5	2070.2	3287.4	3534.6	3684.8	3191.1	1908.1
65°	200.6	193.8	178.8	190.0	264.8	895.0	2362.4	2693.5	3226.6	3104.3	1850.3
67.5°	164.7	158.3	147.6	144.2	156.2	310.6	1206.0	1636.4	2528.4	2734.2	1643.3
70°	131.3	129.2	125.8	119.4	117.2	150.6	432.5	667.0	1671.9	1928.2	1191.0
72.5°	109.5	109.9	106.1	100.5	92.8	97.1	172.4	228.0	809.0	924.5	498.8
75°	91.6	91.6	92.8	85.1	77.4	66.7	95.8	111.2	259.7	213.5	106.5
77.5°	71.9	72.7	78.3	71.9	62.0	41.9	52.2	59.5	77.0	61.6	38.9
80°	57.3	56.5	54.3	64.6	55.6	29.5	24.8	27.4	35.9	29.5	19.3
82.5°	40.2	39.8	38.1	43.6	43.2	21.8	16.3	16.7	21.8	18.8	12.0
85°	9.8	11.6	24.4	20.5	18.0	12.8	9.8	10.7	14.1	12.4	6.4
87.5°	4.3	4.3	11.1	13.3	8.6	5.6	4.3	4.7	7.3	7.3	3.9
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°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1146.6	1118.7	1083.7	1046.4	1008.4	962.6	933.5	909.5	890.7	876.2	871.0
5°	1150.8	1097.4	1017.8	919.0	818.4	724.3	651.6	597.7	553.2	528.8	518.1
7.5°	1150.4	1079.4	935.6	770.1	606.6	471.0	374.8	315.3	275.5	259.3	249.4
10°	1150.0	1055.9	841.9	604.9	405.6	272.9	201.1	167.7	153.2	147.6	146.7
12.5°	1162.4	1028.9	737.1	445.4	254.6	169.8	139.9	132.2	128.8	127.1	126.6
15°	1169.2	1004.1	626.8	314.4	171.6	134.3	124.9	121.5	120.2	119.4	118.9
17.5°	1176.5	965.6	521.9	227.6	137.3	121.9	116.4	114.2	113.4	113.4	113.4
20°	1177.8	924.1	418.0	167.7	121.9	113.8	108.2	106.1	104.8	104.0	104.0
22.5°	1168.4	874.9	328.6	136.0	112.9	106.1	100.1	96.7	94.5	94.1	94.1
25°	1144.8	805.2	252.0	119.4	105.7	98.4	91.1	87.3	85.6	85.6	85.6
27.5°	1111.0	723.0	194.7	106.1	96.3	89.0	82.6	79.1	78.7	78.3	78.7
30°	1072.5	643.9	148.9	94.1	85.1	79.1	74.0	72.3	73.2	73.2	73.6
32.5°	1034.0	564.7	116.4	84.7	75.3	70.2	67.6	67.6	68.9	68.9	68.9
35°	1001.1	487.3	97.5	77.0	68.5	64.2	62.9	64.2	65.0	65.5	65.5
37.5°	982.7	420.5	86.0	70.2	62.9	59.5	59.0	60.3	62.0	63.3	63.7
40°	975.9	369.2	79.1	65.0	57.8	55.6	55.2	56.9	59.9	62.0	62.5
42.5°	976.3	323.9	73.2	59.9	54.3	51.3	51.3	53.9	56.9	59.0	59.0
45°	979.3	284.9	67.2	54.8	51.3	46.2	46.6	50.1	52.2	54.3	54.3
47.5°	981.8	253.7	60.8	49.2	44.5	41.9	42.8	45.3	48.3	51.8	51.8
50°	966.9	231.4	54.3	43.2	38.9	38.1	39.8	41.9	46.2	49.6	50.1
52.5°	930.9	211.3	48.8	38.5	35.1	35.5	37.6	38.9	42.4	42.8	43.2
55°	915.1	201.1	44.5	35.1	32.1	33.4	34.7	35.1	34.2	32.1	32.1
57.5°	911.7	194.2	40.2	31.7	29.5	31.2	30.8	28.2	25.7	23.1	22.7
60°	915.1	184.8	36.8	27.4	27.0	27.4	26.1	21.4	18.0	16.3	15.4
62.5°	895.4	171.1	33.8	23.5	23.5	23.1	19.7	14.5	11.6	10.3	9.8
65°	830.4	144.2	30.8	19.7	19.3	18.4	13.3	9.8	7.7	6.4	6.0
67.5°	702.5	111.7	27.8	16.3	15.4	12.8	8.6	6.4	4.3	3.9	3.4
70°	479.2	69.3	23.5	12.8	11.6	8.1	5.1	3.9	2.6	2.1	1.7
72.5°	173.7	40.2	19.7	9.8	7.7	5.1	3.0	1.7	1.3	1.3	0.9
75°	41.1	28.2	15.0	7.3	5.1	3.0	1.7	1.3	0.9	0.9	0.4
77.5°	18.8	21.8	9.8	4.3	3.4	2.1	1.3	0.9	0.4	0.4	0.0
80°	10.7	15.4	4.7	3.0	2.6	1.7	0.9	0.4	0.4	0.0	0.0
82.5°	5.6	8.6	3.4	2.6	2.1	1.3	0.9	0.0	0.0	0.0	0.0
85°	3.9	4.3	2.6	2.1	1.7	1.3	0.9	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	2.6	2.1	1.7	1.3	0.4	0.0	0.0	0.0	0.0
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)