

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: P672179

Luminaire Tested: **CCP-SA-1D-840-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672179  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-840-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

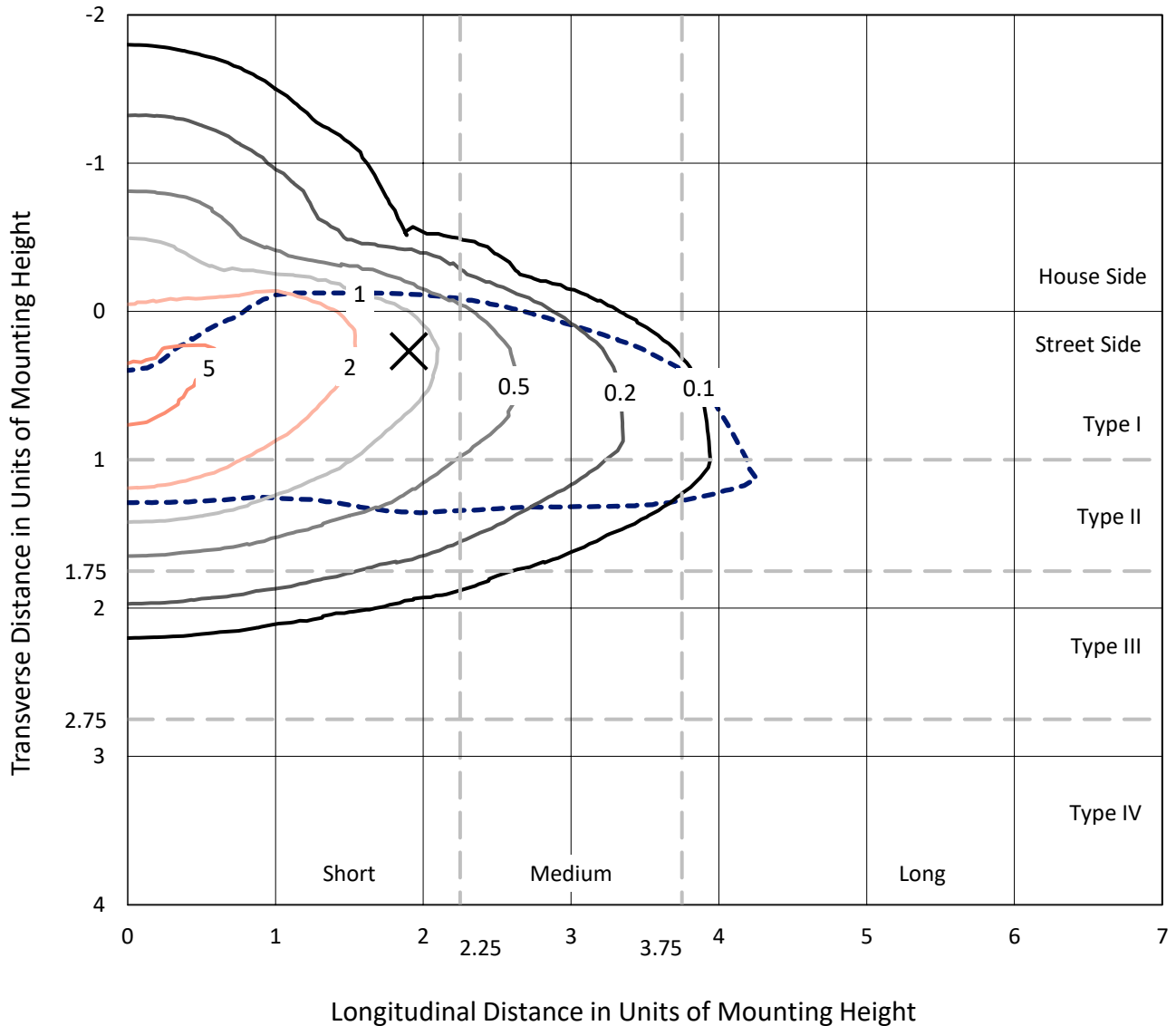
Lumens per Lamp: N/A  
Luminaire Lumens: 4829.8 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

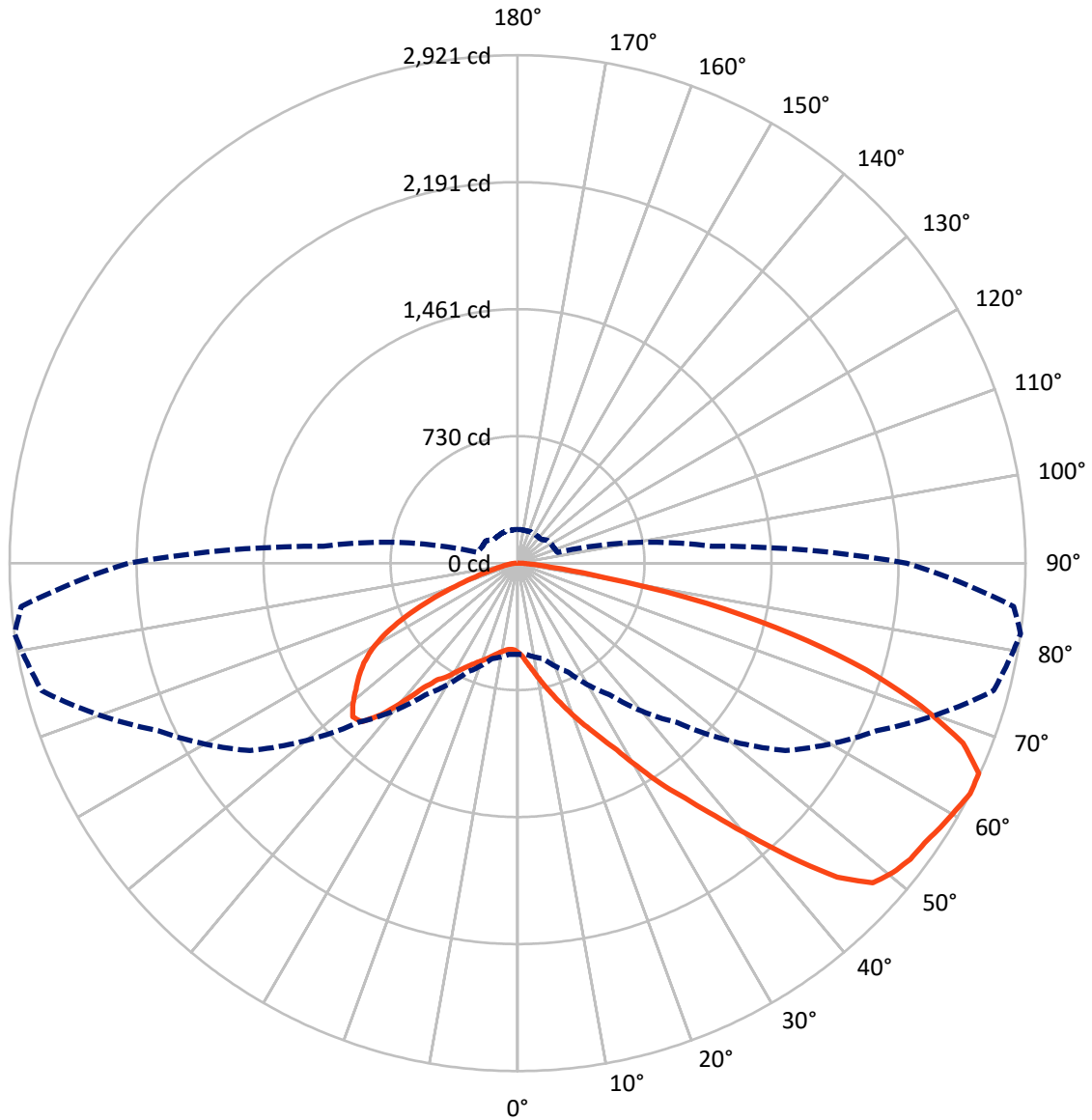
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	909.9	0.0	909.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3919.9	0.0	3919.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4829.8	0.0	4829.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	1.2
10°-20°	214.4	4.4
20°-30°	444.0	9.2
30°-40°	753.5	15.6
40°-50°	1026.1	21.2
50°-60°	1038.6	21.5
60°-70°	818.6	16.9
70°-80°	403.2	8.3
80°-90°	74.6	1.5
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°	4829.8	100.0
0°-180°	4829.8	100.0



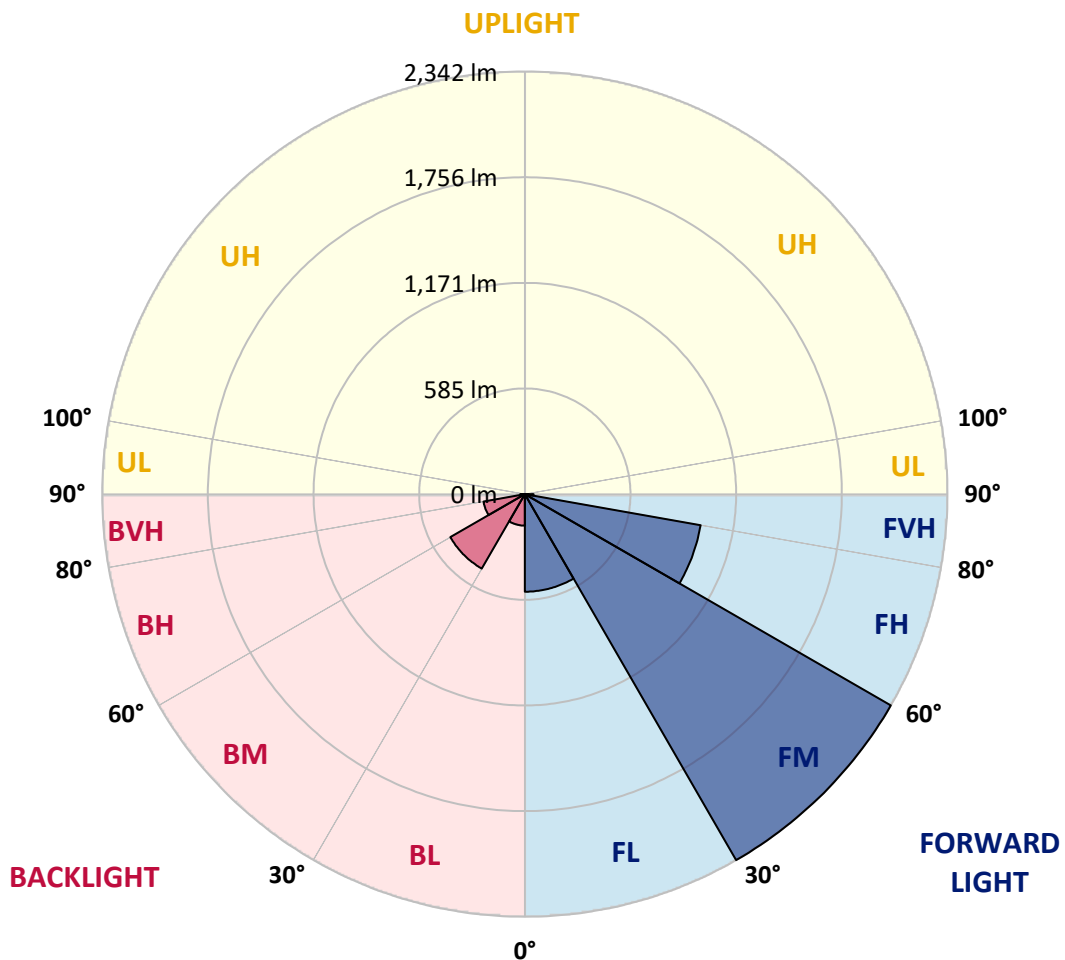
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.6	11.2			
FM (30°-60°)	2341.7	48.5			
FH (60°-80°)	989.2	20.5			G1/1800
FVH (80°-90°)	48.5	1.0			G1/100
BL (0°-30°)	174.6	3.6	B1/500		
BM (30°-60°)	476.6	9.9	B1/1000		
BH (60°-80°)	232.6	4.8	B1/500		G1/500
BVH (80°-90°)	26.1	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°	65°	75°	82°	85°
0°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6
2.5°	684.0	673.6	668.0	661.8	644.4	633.2	612.4	588.0	559.9	535.9	531.4
5°	828.3	817.9	819.3	804.0	778.6	755.0	716.0	670.1	616.5	575.5	561.3
7.5°	930.2	918.7	921.5	915.3	894.7	868.7	819.3	760.2	681.9	621.1	598.1
10°	998.4	999.8	1001.8	999.4	986.2	967.8	918.7	853.4	756.0	675.0	643.7
12.5°	1075.6	1079.4	1078.7	1079.7	1072.8	1058.2	1010.2	948.6	834.9	733.0	692.4
15°	1174.0	1170.2	1173.3	1177.8	1170.2	1154.2	1111.7	1038.7	917.7	797.7	747.3
17.5°	1281.8	1273.8	1282.1	1277.6	1272.0	1261.6	1215.0	1137.1	1003.2	867.6	808.5
20°	1375.0	1369.8	1374.3	1375.0	1376.0	1373.9	1325.9	1243.2	1093.0	943.8	874.6
22.5°	1479.6	1477.2	1476.5	1476.9	1477.9	1480.3	1447.7	1359.3	1192.4	1023.8	945.9
25°	1626.0	1623.6	1607.6	1589.9	1579.5	1587.1	1570.1	1491.1	1302.3	1113.5	1024.1
27.5°	1790.2	1786.4	1765.1	1720.3	1686.9	1692.5	1690.7	1636.5	1428.9	1216.4	1118.0
30°	1960.6	1951.2	1922.0	1859.0	1806.5	1796.8	1801.7	1783.6	1588.1	1353.1	1248.7
32.5°	2112.5	2095.2	2056.6	1992.9	1930.3	1902.2	1902.9	1910.9	1761.3	1512.3	1385.8
35°	2205.4	2193.9	2165.1	2100.7	2030.8	2012.0	2006.8	2046.8	1920.2	1659.8	1508.5
37.5°	2255.5	2244.3	2213.4	2161.6	2108.7	2101.1	2110.8	2172.7	2100.7	1843.7	1675.4
40°	2246.4	2234.6	2214.4	2178.3	2143.5	2149.4	2192.5	2288.2	2297.9	2063.9	1913.3
42.5°	2172.0	2159.5	2157.7	2155.3	2139.0	2165.1	2242.9	2372.7	2479.1	2318.1	2201.2
45°	2040.6	2032.9	2042.0	2083.7	2104.2	2154.6	2266.6	2413.7	2638.3	2576.4	2473.5
47.5°	1874.0	1869.5	1890.0	1956.1	2022.5	2122.6	2282.2	2424.8	2747.9	2747.9	2651.9
50°	1687.6	1685.9	1713.0	1809.0	1912.9	2063.9	2280.5	2435.2	2795.9	2798.3	2714.8
52.5°	1427.5	1436.5	1508.9	1635.4	1776.6	1971.7	2256.2	2464.5	2823.0	2828.5	2756.9
55°	1127.7	1136.4	1245.6	1416.0	1596.8	1859.7	2183.5	2455.8	2828.2	2840.7	2780.9
57.5°	900.3	902.0	970.2	1172.6	1396.5	1716.5	2099.7	2398.0	2812.9	2867.5	2817.8
60°	704.5	710.1	755.6	916.0	1164.2	1531.8	2006.1	2341.0	2821.6	2892.9	2851.1
62.5°	524.7	526.1	568.6	692.7	925.0	1296.4	1879.2	2280.2	2833.8	2921.4	2864.7
65°	341.8	341.5	382.5	494.5	691.0	1042.2	1679.9	2184.9	2834.8	2915.1	2802.5
67.5°	217.3	218.7	236.5	307.1	462.5	786.6	1408.7	2007.9	2785.4	2763.5	2575.7
70°	176.3	176.7	182.2	200.6	281.7	537.6	1058.9	1731.1	2629.3	2461.3	2238.8
72.5°	157.2	157.5	160.3	162.4	187.8	323.1	694.8	1405.6	2351.8	2097.9	1857.3
75°	141.2	141.2	142.9	140.8	154.1	202.7	394.3	1056.8	1936.9	1633.7	1403.1
77.5°	123.8	123.4	123.4	122.4	133.2	148.1	197.5	737.6	1395.1	1114.2	910.0
80°	105.0	104.3	105.4	104.7	115.1	112.3	115.1	455.2	756.3	510.8	387.4
82.5°	81.7	81.7	84.8	85.5	94.9	81.4	81.0	215.9	287.2	190.9	142.9
85°	42.8	48.0	64.7	67.5	71.6	51.1	59.5	100.8	115.1	73.0	52.2
87.5°	12.9	13.6	39.6	44.5	44.2	25.7	36.5	48.7	53.9	32.3	21.2
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°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6
2.5°	519.9	507.7	482.0	459.0	441.6	424.9	413.5	407.6	399.9	400.9	398.5
5°	535.9	510.8	465.3	428.4	403.7	385.0	373.5	367.6	362.0	359.2	361.3
7.5°	559.9	520.9	457.3	412.8	387.0	371.0	364.8	363.0	361.7	360.6	362.3
10°	590.8	538.7	455.9	407.2	383.6	373.8	371.4	370.3	369.0	367.6	368.6
12.5°	622.5	558.1	460.8	408.6	389.1	381.8	378.7	377.3	373.8	372.1	372.4
15°	662.1	581.8	467.4	414.2	396.4	387.0	382.9	379.0	373.5	371.0	372.1
17.5°	704.5	609.9	476.4	419.4	399.2	387.7	379.4	373.8	368.3	364.8	365.1
20°	752.5	637.8	484.4	421.1	397.8	381.8	371.7	365.1	357.8	354.0	353.0
22.5°	802.2	667.0	490.7	419.7	390.2	371.7	360.3	352.3	343.6	337.7	338.0
25°	862.8	706.6	495.9	414.9	380.1	358.5	345.7	335.6	326.5	321.0	321.3
27.5°	935.4	751.5	502.1	407.2	367.9	344.3	329.3	319.2	310.5	305.3	304.6
30°	1032.5	809.9	509.1	397.8	352.6	328.6	314.0	303.6	295.2	290.4	290.4
32.5°	1141.6	881.2	514.0	386.7	335.6	311.9	298.7	290.4	284.1	277.5	276.8
35°	1236.6	936.5	528.9	378.0	320.6	296.3	287.2	281.3	271.9	265.7	264.6
37.5°	1376.0	1033.8	573.1	375.6	302.5	284.1	282.4	271.2	260.5	248.6	247.6
40°	1600.7	1202.5	624.5	363.7	283.8	277.5	275.8	260.8	235.4	228.1	226.7
42.5°	1886.5	1405.6	630.1	329.3	270.5	271.9	266.7	237.5	226.4	220.8	219.4
45°	2144.5	1570.4	598.5	294.2	260.8	263.6	252.8	228.8	222.6	217.3	215.9
47.5°	2289.5	1621.2	538.7	267.8	253.5	256.3	230.6	224.6	218.4	213.2	211.8
50°	2330.2	1577.0	469.1	252.5	247.9	249.0	224.6	221.2	215.6	211.4	209.3
52.5°	2338.2	1510.9	404.8	243.4	243.8	234.4	219.4	216.6	213.2	206.6	204.1
55°	2341.7	1451.5	347.0	237.9	241.0	215.6	213.9	211.8	209.0	202.0	200.6
57.5°	2350.7	1375.3	301.8	233.7	237.5	206.9	207.6	206.2	202.7	199.6	198.9
60°	2325.0	1270.0	267.1	229.5	232.6	199.6	200.3	201.0	197.9	197.2	196.8
62.5°	2238.8	1120.4	237.5	223.9	222.6	192.3	192.3	195.1	192.3	193.3	193.3
65°	2061.1	929.9	211.1	213.5	206.9	184.3	184.0	188.8	184.7	189.2	189.5
67.5°	1758.2	703.8	184.0	197.2	190.6	176.0	177.3	181.2	175.6	185.0	185.0
70°	1391.7	478.8	155.8	174.2	173.9	166.6	171.1	170.7	164.5	178.4	176.0
72.5°	1036.6	307.4	126.9	146.1	152.0	156.5	164.8	157.5	151.6	159.6	152.3
75°	724.3	192.6	100.2	115.5	126.6	145.4	157.2	142.6	133.9	131.4	129.4
77.5°	433.6	123.1	78.9	88.0	98.8	132.1	147.4	126.9	113.7	112.3	108.1
80°	200.0	80.3	60.2	65.7	70.2	113.4	134.2	108.5	92.5	91.1	86.2
82.5°	90.4	52.9	44.9	46.9	47.3	90.1	113.4	85.9	70.6	114.4	99.1
85°	42.1	34.1	29.2	27.8	28.2	60.2	82.4	59.1	80.3	62.6	47.6
87.5°	18.1	17.4	15.0	11.8	10.8	12.9	31.6	24.7	35.1	13.9	9.4
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)