

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: P674609

Luminaire Tested: **CCP-SA-2B-830-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4443.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

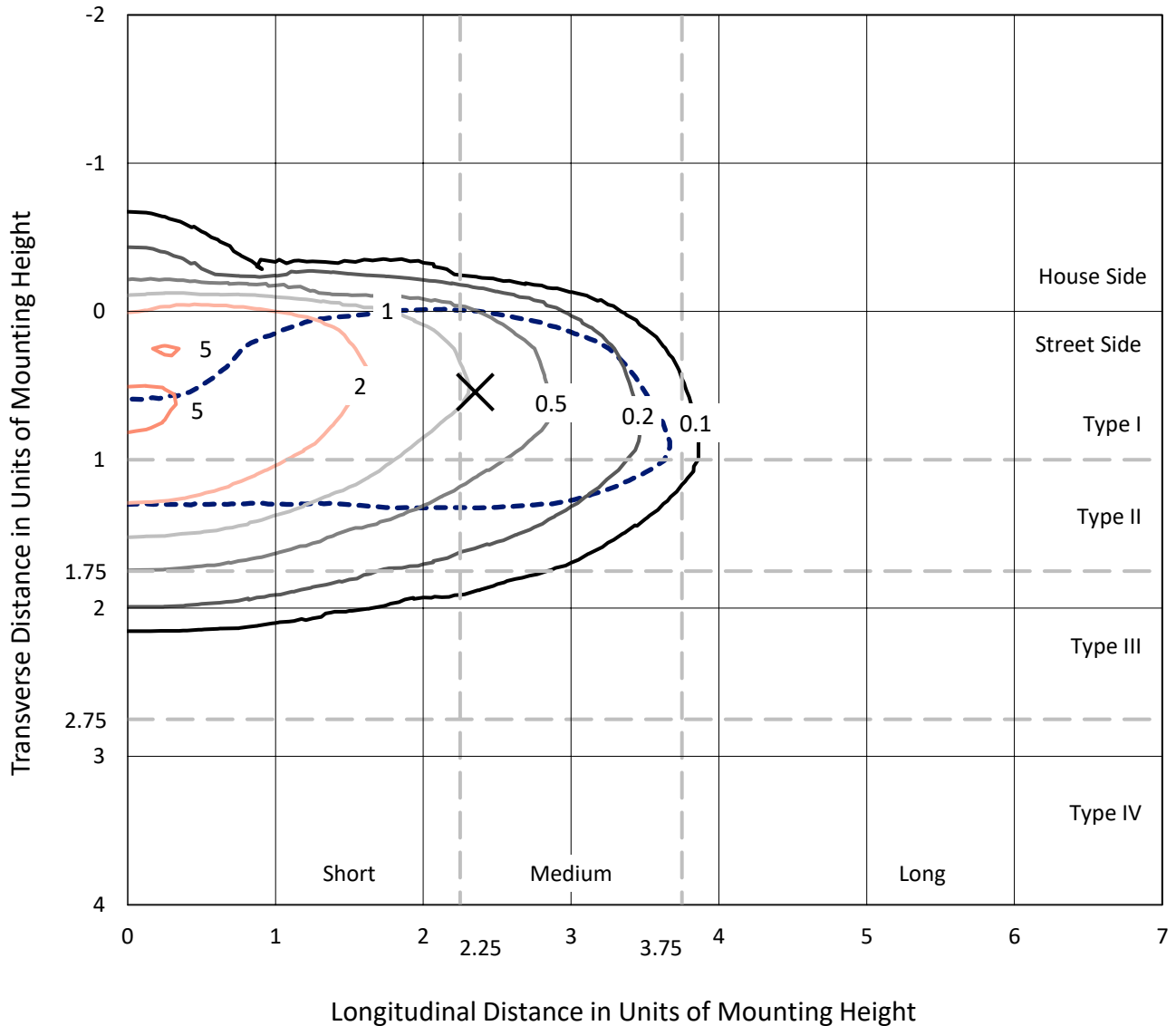
Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

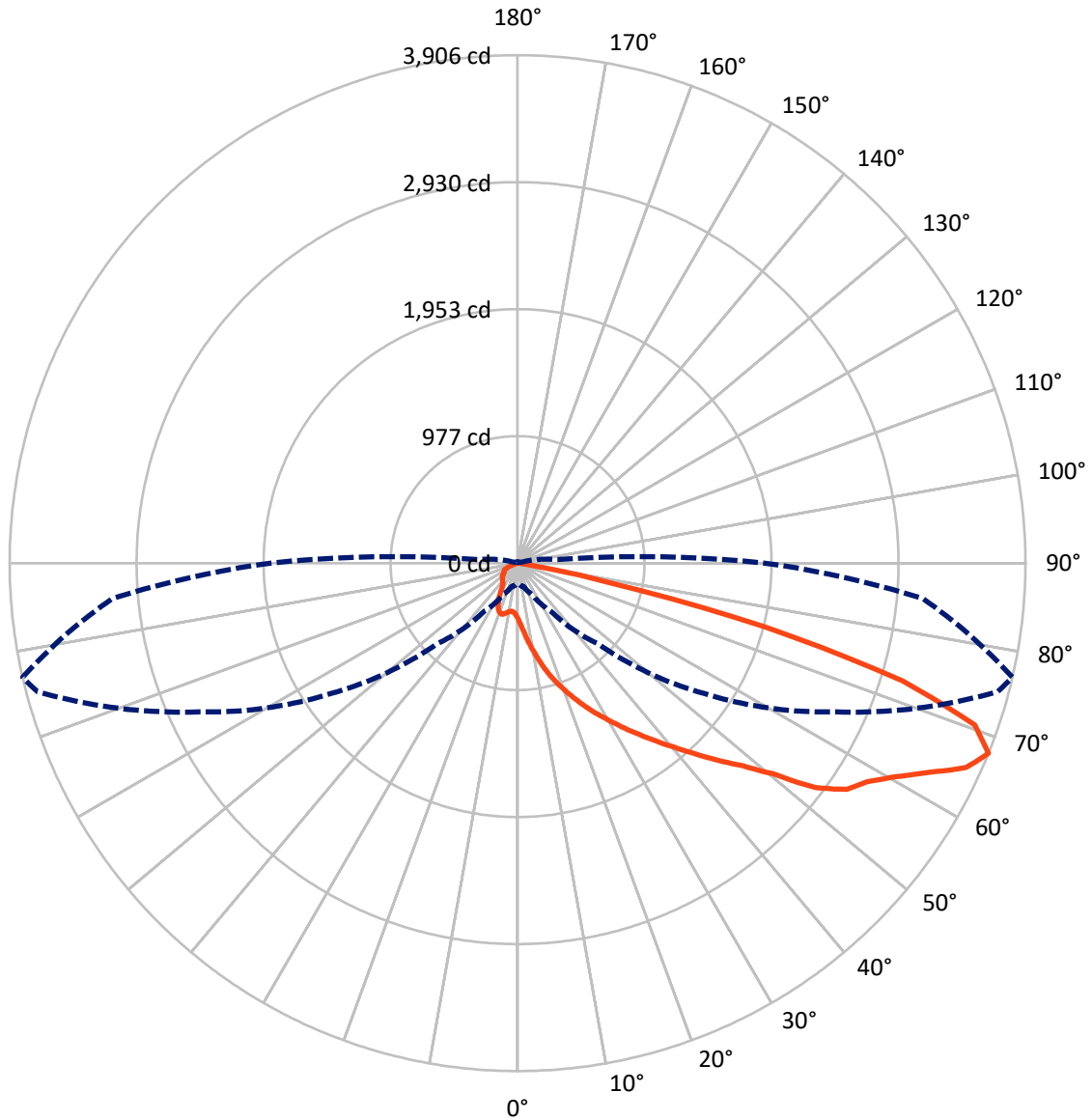
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	277.7	0.0	277.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4165.7	0.0	4165.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	4443.4	0.0	4443.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.1
10°-20°	185.0	4.2
20°-30°	361.4	8.1
30°-40°	631.8	14.2
40°-50°	921.4	20.7
50°-60°	1077.4	24.2
60°-70°	873.4	19.7
70°-80°	328.1	7.4
80°-90°	14.9	0.3
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°	4443.4	100.0
0°-180°	4443.4	100.0



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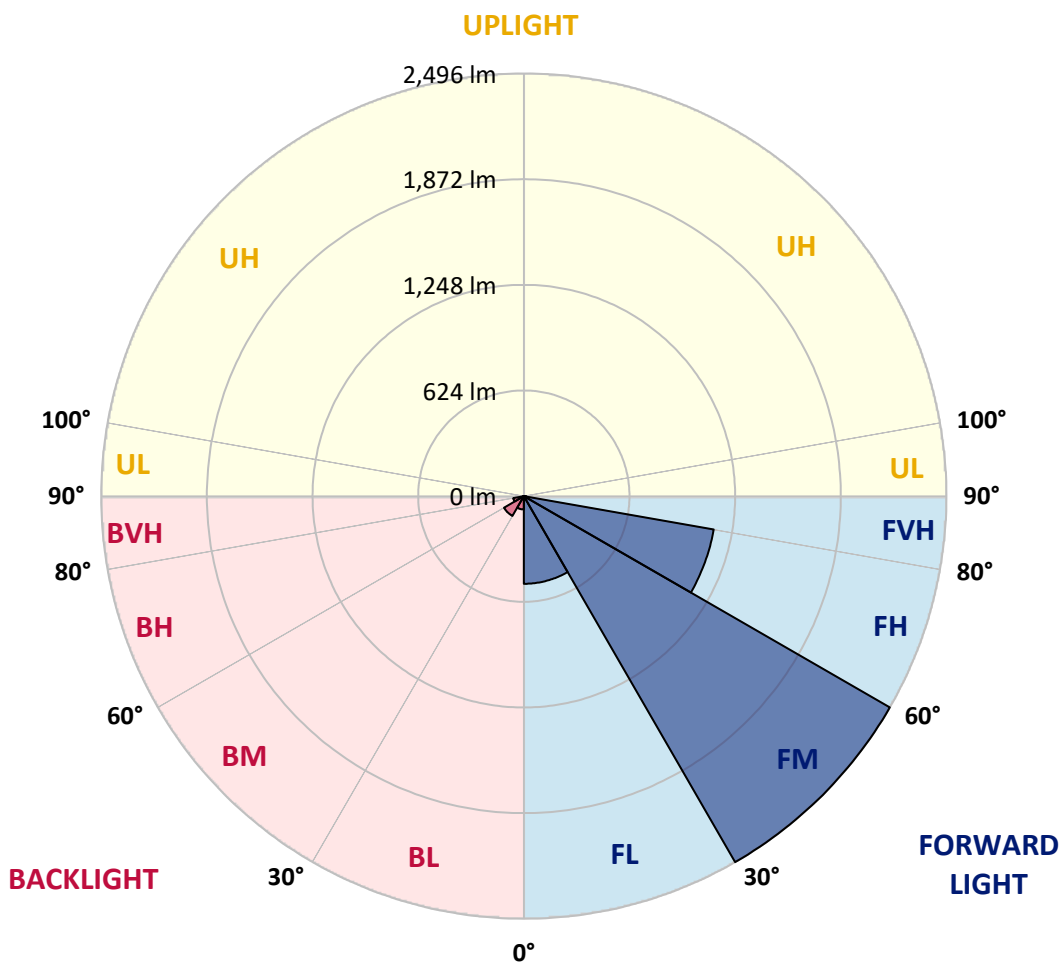
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.6	11.6			
FM (30°-60°)	2495.5	56.2			
FH (60°-80°)	1138.5	25.6			G1/1800
FVH (80°-90°)	14.0	0.3			G1/100
BL (0°-30°)	78.7	1.8	B0/110		
BM (30°-60°)	135.1	3.0	B0/220		
BH (60°-80°)	63.0	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6
2.5°	639.0	615.7	620.1	610.5	598.1	569.2	538.7	508.2	480.9	474.9	447.7
5°	818.3	811.1	803.5	797.0	771.0	734.9	679.9	610.1	547.1	536.3	479.7
7.5°	957.5	946.7	953.5	933.8	906.5	871.6	801.8	727.2	630.2	614.1	526.3
10°	1060.2	1054.2	1057.4	1048.1	1034.9	1000.0	931.0	837.5	725.2	694.7	578.4
12.5°	1137.2	1138.4	1152.4	1153.2	1142.4	1113.9	1040.9	943.4	811.5	784.2	636.2
15°	1193.3	1194.5	1211.8	1230.2	1242.7	1227.8	1161.7	1052.5	913.0	875.7	696.8
17.5°	1202.6	1203.4	1233.9	1271.2	1309.7	1322.5	1271.6	1160.9	1005.6	963.1	766.1
20°	1208.6	1215.4	1242.7	1285.6	1346.6	1386.3	1358.6	1264.7	1095.5	1046.1	834.3
22.5°	1281.6	1281.6	1297.6	1328.1	1376.7	1438.8	1433.2	1360.2	1182.9	1134.0	902.1
25°	1436.4	1436.4	1420.8	1412.8	1438.8	1487.8	1501.8	1462.1	1282.8	1225.0	973.5
27.5°	1641.4	1641.4	1616.9	1558.0	1535.5	1556.0	1570.8	1550.7	1375.1	1318.1	1048.9
30°	1854.0	1861.2	1818.7	1743.7	1665.1	1649.4	1635.0	1630.6	1473.3	1409.1	1125.6
32.5°	2067.4	2066.6	2013.6	1920.2	1817.5	1762.1	1715.2	1710.0	1577.6	1514.6	1198.2
35°	2237.9	2238.3	2182.5	2086.6	1967.9	1897.3	1821.9	1797.4	1691.9	1621.7	1284.8
37.5°	2385.5	2377.1	2316.9	2225.8	2115.1	2042.1	1948.3	1884.5	1810.3	1738.9	1371.4
40°	2470.1	2458.9	2400.3	2313.7	2229.8	2174.1	2091.5	1989.6	1940.2	1863.2	1470.1
42.5°	2482.6	2472.9	2434.0	2381.9	2313.3	2264.3	2242.3	2108.3	2076.6	2006.8	1588.0
45°	2447.7	2432.0	2419.2	2391.9	2372.6	2349.0	2379.1	2234.7	2233.1	2163.7	1704.8
47.5°	2361.0	2339.8	2343.0	2373.0	2394.7	2416.0	2509.8	2400.3	2390.7	2325.7	1858.0
50°	2213.0	2202.6	2237.9	2297.2	2383.1	2468.1	2640.2	2569.6	2607.7	2546.7	2069.4
52.5°	1912.2	1925.0	2030.5	2173.3	2321.7	2492.6	2762.5	2822.3	2919.8	2869.6	2282.0
55°	1551.1	1546.3	1687.1	1940.6	2177.7	2476.9	2815.9	2971.1	3124.4	3071.8	2400.3
57.5°	1249.5	1257.9	1353.0	1603.7	1933.4	2356.2	2828.3	3048.9	3206.6	3171.7	2509.8
60°	937.8	945.8	1032.5	1250.7	1608.5	2104.3	2725.6	3076.2	3361.0	3334.5	2684.7
62.5°	596.9	607.3	694.3	906.5	1229.4	1712.8	2495.0	3047.7	3522.3	3544.3	2923.4
65°	293.6	302.8	367.0	529.5	821.9	1280.8	2173.3	2939.0	3727.6	3790.6	3114.7
67.5°	162.5	166.9	188.9	269.6	458.5	878.5	1746.5	2706.8	3821.9	3906.1	3127.6
70°	126.4	127.6	136.0	157.2	223.4	515.4	1242.3	2320.1	3626.6	3728.4	2867.2
72.5°	106.3	107.9	111.9	119.1	139.6	268.4	780.6	1793.0	3051.3	3097.5	2218.2
75°	77.8	80.2	91.5	97.9	110.3	162.9	344.2	1077.4	2016.4	1971.1	1241.1
77.5°	65.4	67.4	70.2	79.4	91.1	111.1	120.7	451.7	820.7	713.6	325.7
80°	44.5	46.9	54.6	59.4	77.0	73.4	50.1	121.1	164.9	134.4	62.6
82.5°	31.7	33.7	37.7	48.5	55.8	38.9	27.3	36.9	39.7	37.7	20.5
85°	10.0	12.8	27.3	40.1	30.1	13.2	17.2	14.0	12.4	12.0	8.0
87.5°	2.0	2.0	13.6	16.0	12.0	6.8	6.0	4.4	5.6	5.6	4.4
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°	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6	425.6
2.5°	434.8	416.8	390.7	366.2	341.4	323.7	311.3	298.8	294.0	292.0	286.8
5°	454.1	419.6	367.8	326.1	295.6	276.4	264.7	254.7	248.3	246.3	243.5
7.5°	481.7	432.0	357.8	309.7	279.2	258.3	239.5	217.8	200.6	193.7	190.9
10°	511.8	450.9	359.4	306.5	265.9	220.2	178.1	143.2	128.0	122.3	118.3
12.5°	556.0	471.7	366.2	302.8	226.2	157.2	113.9	99.5	95.9	95.1	94.3
15°	600.1	501.0	377.5	278.8	168.9	107.1	94.7	89.5	87.4	85.4	85.4
17.5°	644.6	529.1	381.9	231.8	116.7	92.7	86.2	81.8	78.6	77.0	75.8
20°	694.7	558.8	369.0	174.5	93.5	84.6	77.4	72.2	69.4	67.8	66.6
22.5°	748.9	588.0	341.0	121.5	85.0	76.2	69.4	64.2	61.4	59.8	59.4
25°	799.8	613.3	296.0	91.5	76.6	68.2	61.8	57.4	55.4	53.8	53.3
27.5°	852.4	635.0	237.5	80.6	69.8	61.8	55.4	51.7	49.7	48.5	48.1
30°	903.7	649.8	176.9	73.8	63.8	55.8	50.1	47.3	45.3	44.1	43.7
32.5°	956.7	658.2	119.5	67.8	57.8	50.5	45.7	42.9	41.7	40.5	40.5
35°	1007.6	657.0	86.2	62.2	52.9	45.7	41.3	39.3	38.9	37.7	37.7
37.5°	1063.4	648.6	73.4	57.0	47.7	41.3	37.7	36.5	36.1	35.3	34.9
40°	1126.8	629.8	67.0	52.9	43.3	37.7	34.5	33.7	33.3	32.5	32.5
42.5°	1196.2	605.3	63.4	48.5	39.7	34.1	31.7	30.5	30.1	29.3	29.3
45°	1276.8	582.0	61.0	44.1	36.5	31.3	28.9	27.7	27.3	26.5	26.5
47.5°	1386.7	568.8	57.0	40.1	32.9	28.5	26.1	25.3	24.5	23.7	23.7
50°	1537.9	553.1	51.7	36.1	30.1	25.7	24.1	22.9	22.5	21.7	21.7
52.5°	1662.3	519.9	46.5	32.1	26.9	23.7	22.1	21.3	20.5	20.1	20.1
55°	1706.0	480.9	41.3	28.9	24.5	22.1	20.5	19.7	19.3	18.9	18.9
57.5°	1775.8	468.5	36.5	25.7	22.1	20.5	18.9	18.5	18.1	17.6	17.2
60°	1894.9	475.7	32.1	22.9	20.1	18.5	17.2	16.8	16.0	15.2	15.2
62.5°	2010.4	466.9	27.3	20.1	17.2	16.4	15.2	14.4	12.8	11.6	10.8
65°	2038.5	407.9	23.7	16.8	14.4	13.6	12.4	10.8	8.4	6.8	6.8
67.5°	1902.5	310.1	20.5	14.4	12.0	11.2	8.8	7.2	5.2	4.0	4.0
70°	1570.0	196.6	16.8	11.2	10.0	7.6	5.6	5.2	3.6	3.2	2.8
72.5°	1132.8	107.5	14.0	9.2	7.2	4.8	4.0	3.2	2.4	1.6	1.6
75°	573.6	50.5	10.4	7.2	4.8	3.2	2.4	1.6	1.6	1.2	1.2
77.5°	162.5	23.3	6.8	4.8	3.2	2.0	1.6	1.2	1.2	0.8	0.8
80°	32.1	11.6	4.4	3.2	2.4	1.6	1.2	0.8	0.8	0.4	0.4
82.5°	11.6	6.0	3.2	2.4	2.0	1.6	0.8	0.4	0.4	0.0	0.0
85°	6.0	3.2	2.4	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0
87.5°	3.2	2.4	2.0	2.0	1.6	1.2	0.8	0.4	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)