

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: P674678

Luminaire Tested: **CCP-SA-2D-727-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674678  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-727-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

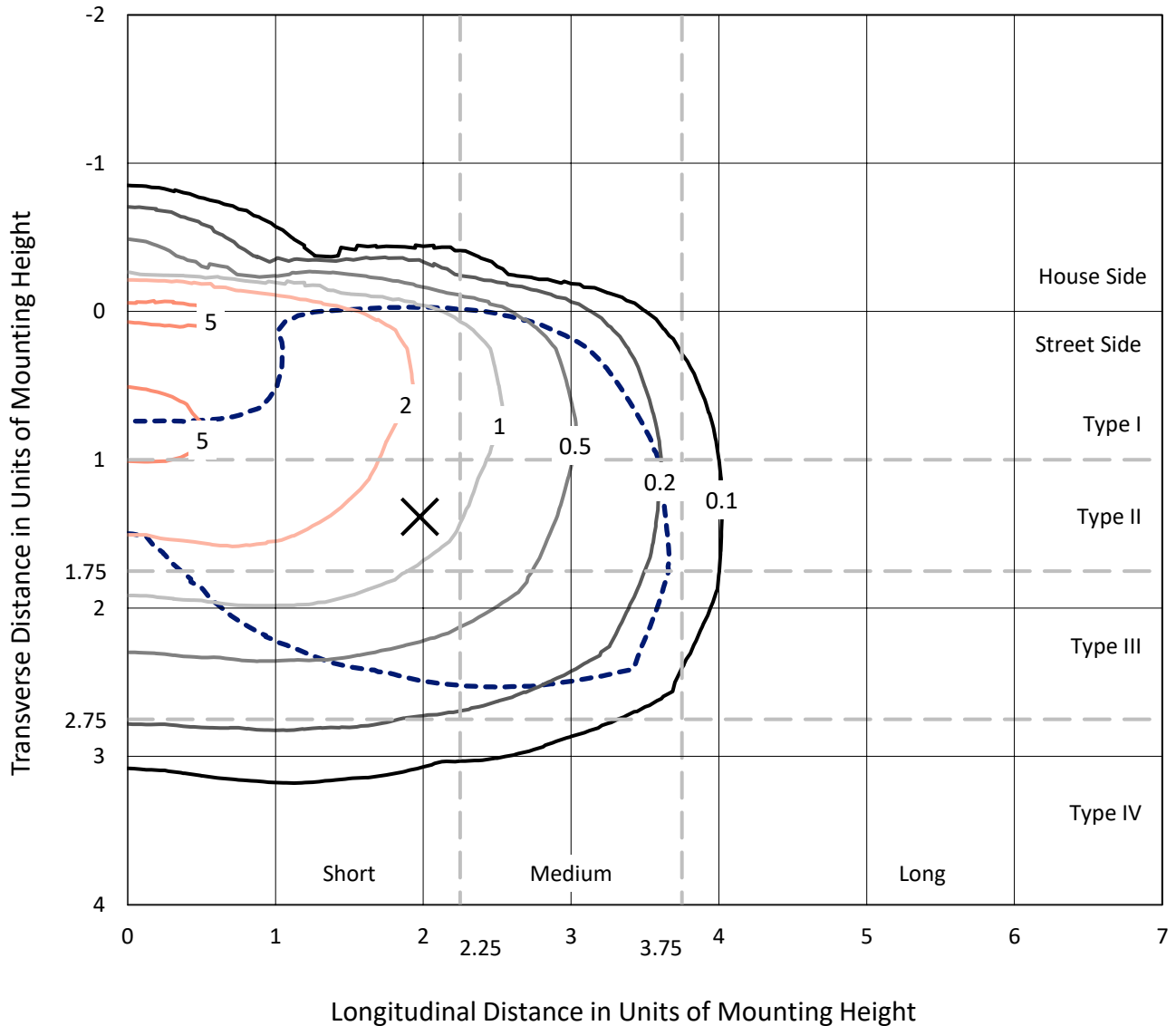
Lumens per Lamp: N/A  
Luminaire Lumens: 7397.2 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

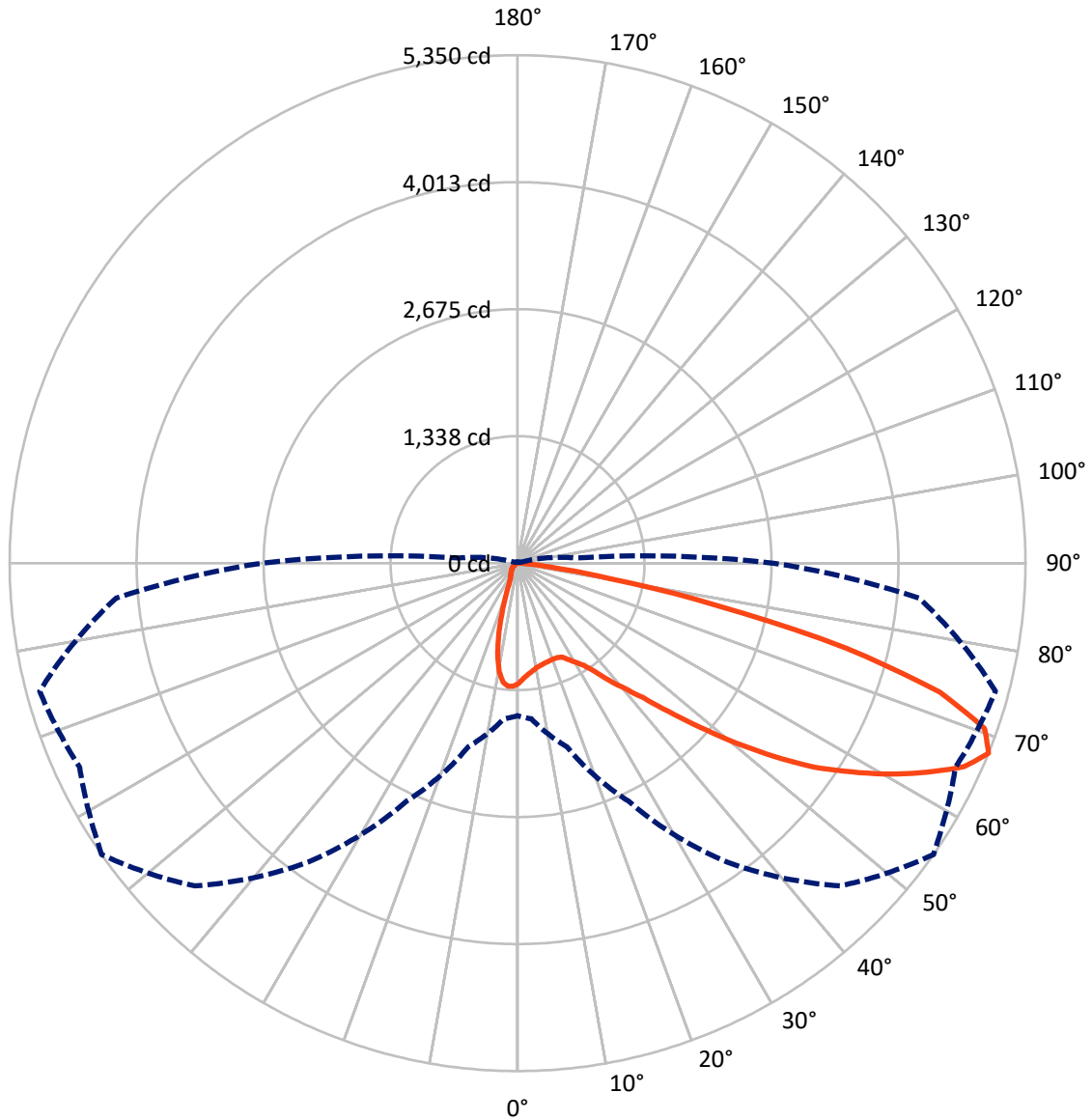
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	664.5	0.0	664.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	6732.7	0.0	6732.7
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	7397.2	0.0	7397.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	1.5
10°-20°	253.3	3.4
20°-30°	406.4	5.5
30°-40°	704.9	9.5
40°-50°	1175.3	15.9
50°-60°	1718.7	23.2
60°-70°	2004.0	27.1
70°-80°	972.5	13.1
80°-90°	50.9	0.7
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°	7397.2	100.0
0°-180°	7397.2	100.0



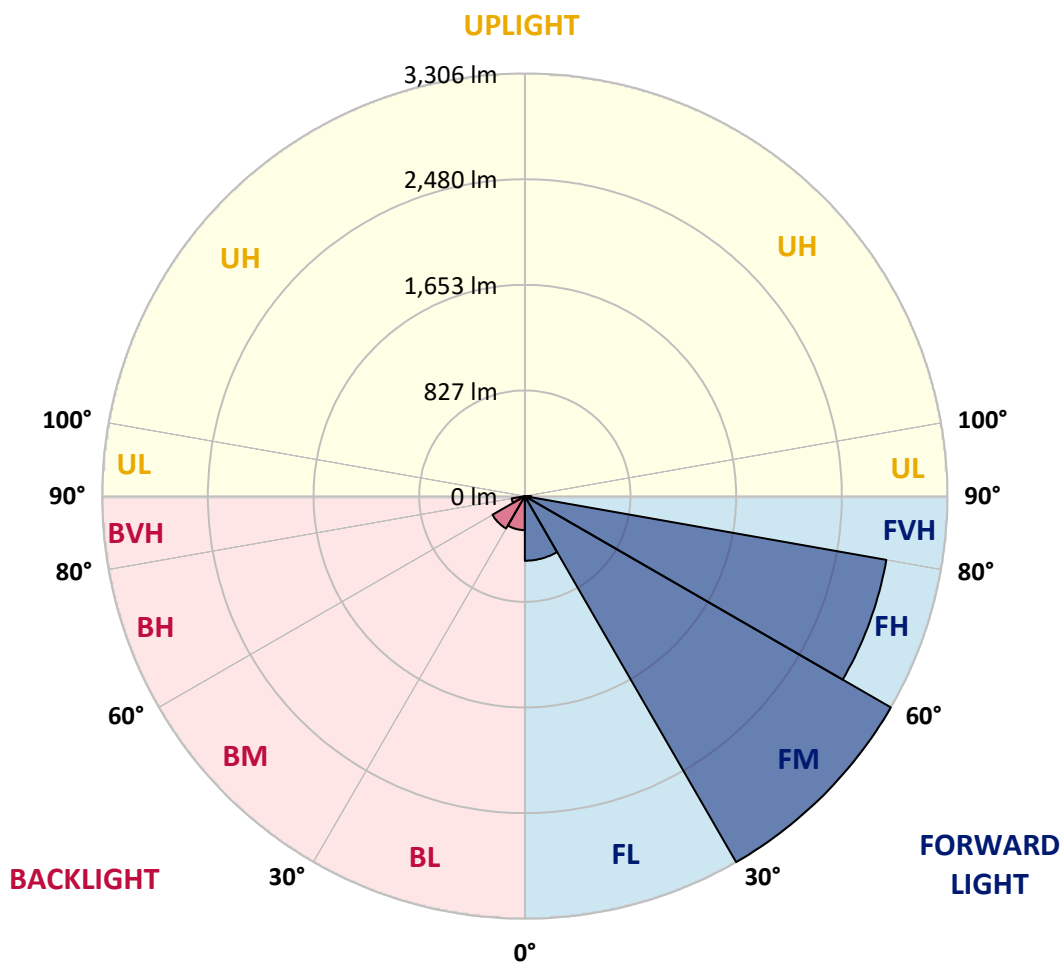
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.3	6.8			
FM (30°-60°)	3306.3	44.7			
FH (60°-80°)	2871.7	38.8			G2/5000
FVH (80°-90°)	49.4	0.7			G1/100
BL (0°-30°)	265.6	3.6	B1/500		
BM (30°-60°)	292.6	4.0	B1/1000		
BH (60°-80°)	104.8	1.4	B0/110		G0/110
BVH (80°-90°)	1.5	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1170.2	1177.7	1187.3	1190.7	1202.2	1218.6	1213.8	1210.4	1228.8	1254.0	1262.2
5°	1097.3	1098.0	1113.0	1123.9	1143.6	1159.3	1176.3	1175.0	1208.4	1251.3	1278.6
7.5°	1025.7	1027.1	1042.8	1059.8	1088.4	1119.1	1145.0	1143.6	1197.5	1254.7	1306.5
10°	931.7	938.5	957.6	987.6	1032.5	1080.9	1117.1	1120.5	1185.2	1267.7	1344.7
12.5°	856.0	859.4	880.6	919.4	972.6	1035.9	1103.4	1101.4	1187.9	1291.5	1394.4
15°	824.0	821.9	834.9	863.5	924.2	1003.9	1089.8	1094.6	1197.5	1318.8	1446.2
17.5°	831.5	829.4	836.3	846.5	889.4	977.3	1082.3	1090.5	1212.5	1347.4	1494.6
20°	914.6	900.3	888.1	877.1	883.3	955.5	1077.5	1086.4	1221.3	1369.2	1545.7
22.5°	1074.8	1057.1	1024.4	963.7	923.5	956.9	1078.9	1090.5	1241.1	1404.7	1607.8
25°	1335.8	1318.8	1248.6	1124.5	1018.2	1006.0	1097.3	1109.6	1286.8	1458.5	1673.9
27.5°	1681.4	1643.2	1558.0	1380.1	1175.0	1084.3	1152.5	1166.1	1351.5	1500.1	1718.9
30°	1968.3	1959.4	1877.7	1659.6	1391.0	1199.5	1214.5	1222.0	1380.8	1525.3	1763.8
32.5°	2266.1	2247.7	2172.8	1960.8	1641.8	1363.8	1284.0	1287.4	1419.0	1562.8	1829.3
35°	2525.1	2508.1	2445.4	2239.6	1934.9	1584.6	1399.2	1391.7	1498.0	1645.2	1917.9
37.5°	2765.0	2763.0	2707.8	2497.9	2198.0	1813.6	1568.9	1562.8	1621.4	1735.9	2037.8
40°	2999.5	2994.0	2947.0	2755.5	2457.0	2041.9	1730.4	1714.8	1726.4	1862.7	2195.9
42.5°	3143.3	3154.9	3171.2	3049.9	2764.3	2309.8	1934.9	1925.4	1923.3	2061.0	2403.8
45°	3221.0	3241.4	3337.5	3326.6	3090.1	2643.0	2225.9	2201.4	2193.2	2333.6	2641.7
47.5°	3296.6	3305.5	3462.9	3529.0	3402.3	2990.6	2577.6	2543.5	2510.1	2666.2	2925.9
50°	3301.4	3315.7	3510.6	3671.5	3664.0	3332.8	2972.2	2942.2	2904.1	3071.0	3203.3
52.5°	3234.6	3263.2	3504.5	3761.4	3826.2	3634.7	3381.8	3357.3	3325.9	3450.7	3437.0
55°	2773.2	2821.6	3384.5	3769.6	3940.0	3893.7	3793.5	3759.4	3728.7	3817.3	3666.0
57.5°	2553.7	2581.0	3020.6	3763.5	4085.2	4133.6	4150.6	4134.9	4092.0	4202.4	3905.2
60°	2422.2	2461.7	2846.8	3695.3	4241.9	4404.8	4511.8	4480.5	4428.0	4580.0	4161.5
62.5°	2264.8	2293.4	2673.7	3499.0	4335.3	4680.8	4850.6	4821.9	4713.6	4928.2	4368.7
65°	1974.4	2017.4	2398.4	3190.3	4209.9	4883.3	5169.5	5160.0	4971.9	5191.3	4425.3
67.5°	1607.1	1645.9	2001.0	2767.1	3843.2	4807.6	5350.1	5320.1	5089.1	5211.1	4246.0
70°	1206.3	1227.5	1495.3	2114.2	3148.7	4403.5	5219.3	5213.1	4911.2	4918.0	3696.0
72.5°	647.5	706.1	994.4	1414.9	2214.3	3566.5	4651.5	4627.0	4381.6	4027.9	2658.0
75°	226.3	243.3	529.6	794.7	1202.9	2375.9	3576.7	3519.5	3276.9	2619.9	1448.3
77.5°	139.0	152.7	235.1	406.2	468.2	1031.2	2148.9	2074.6	1917.9	1132.7	494.8
80°	96.1	108.4	157.4	212.6	159.5	334.0	988.9	961.0	739.5	269.9	113.8
82.5°	53.8	64.7	119.3	104.3	64.1	86.6	342.8	317.6	197.0	72.9	38.2
85°	31.4	37.5	83.8	73.6	32.7	30.7	89.3	79.7	51.1	27.3	18.4
87.5°	16.4	21.1	61.3	49.1	19.8	10.9	20.4	19.8	12.9	9.5	12.3
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°	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1277.2	1273.8	1291.5	1297.7	1296.3	1293.6	1300.4	1291.5	1290.8	1288.8	1286.8
5°	1300.4	1305.8	1320.2	1320.2	1301.1	1269.7	1250.6	1224.7	1202.9	1190.0	1187.9
7.5°	1335.1	1346.0	1355.6	1326.3	1260.9	1183.2	1100.7	1035.9	979.4	950.1	947.3
10°	1384.2	1394.4	1386.9	1303.1	1162.7	1001.9	867.6	732.7	665.2	628.4	628.4
12.5°	1442.8	1451.0	1405.3	1245.2	1001.2	768.1	588.9	447.1	379.6	336.0	333.3
15°	1506.2	1508.3	1402.6	1144.3	801.5	515.9	338.0	248.1	219.5	213.3	212.0
17.5°	1561.4	1553.2	1374.0	995.1	577.3	307.4	214.7	194.2	188.8	188.8	188.8
20°	1613.2	1586.0	1316.7	821.3	370.1	209.2	184.7	179.2	179.2	179.9	179.9
22.5°	1670.5	1616.6	1235.0	628.4	237.9	179.2	173.1	170.4	169.7	171.7	171.1
25°	1737.9	1646.6	1117.7	434.1	184.0	167.0	164.3	161.5	161.5	161.5	161.5
27.5°	1775.4	1642.5	984.1	274.0	160.8	154.7	152.0	149.3	147.2	146.5	147.2
30°	1808.1	1618.7	809.7	191.5	145.2	138.4	136.3	132.9	128.8	127.4	127.4
32.5°	1851.1	1598.9	627.0	154.0	131.5	124.0	117.9	112.5	105.6	102.9	102.2
35°	1898.8	1562.8	459.4	135.6	119.3	109.7	100.2	91.3	82.5	79.7	79.1
37.5°	1958.1	1530.1	311.5	125.4	109.0	97.5	84.5	72.2	64.1	62.7	62.7
40°	2038.5	1502.8	215.4	116.5	99.5	85.9	70.2	57.2	51.8	50.4	50.4
42.5°	2148.2	1480.3	162.9	109.0	91.3	74.3	56.6	47.0	42.9	41.6	41.6
45°	2277.7	1445.6	137.7	102.2	83.1	62.7	47.0	39.5	37.5	37.5	37.5
47.5°	2426.3	1401.9	125.4	95.4	74.3	51.1	39.5	36.1	35.4	35.4	36.1
50°	2576.2	1350.1	116.5	87.2	64.1	43.6	36.1	34.1	34.1	34.8	34.8
52.5°	2677.8	1269.0	107.7	78.4	53.8	38.2	34.1	33.4	32.7	32.7	32.7
55°	2776.6	1198.2	95.4	68.8	45.0	35.4	32.7	32.0	32.0	31.4	31.4
57.5°	2879.5	1142.3	79.7	57.2	38.2	33.4	31.4	31.4	30.0	29.3	29.3
60°	2998.8	1093.2	61.3	45.0	33.4	31.4	29.3	28.6	27.3	25.9	25.9
62.5°	3033.6	989.6	46.3	36.1	28.6	27.3	26.6	25.2	21.8	19.1	19.8
65°	2942.9	826.7	36.8	28.6	23.2	23.2	21.1	17.7	14.3	12.3	12.3
67.5°	2692.8	617.5	30.0	22.5	18.4	17.7	15.0	12.9	8.9	7.5	7.5
70°	2219.1	408.2	24.5	17.7	15.0	12.3	10.2	9.5	6.8	5.5	5.5
72.5°	1555.3	221.5	20.4	14.3	10.9	8.2	6.8	6.1	4.8	4.1	3.4
75°	821.3	85.2	16.4	10.9	6.8	5.5	4.1	4.1	3.4	2.7	2.7
77.5°	281.5	36.1	11.6	6.1	4.8	3.4	2.7	2.0	2.7	2.0	2.0
80°	66.8	21.1	7.5	4.1	2.7	2.0	2.0	1.4	1.4	1.4	1.4
82.5°	29.3	12.3	4.8	2.7	2.7	2.0	1.4	0.7	0.7	0.7	0.7
85°	19.8	7.5	3.4	2.7	2.0	1.4	0.7	0.7	0.0	0.0	0.0
87.5°	15.7	4.8	2.7	2.7	2.0	1.4	0.7	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)