

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: P673604

Luminaire Tested: **CCP-SA-2E-830-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673604  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-830-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T4W distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

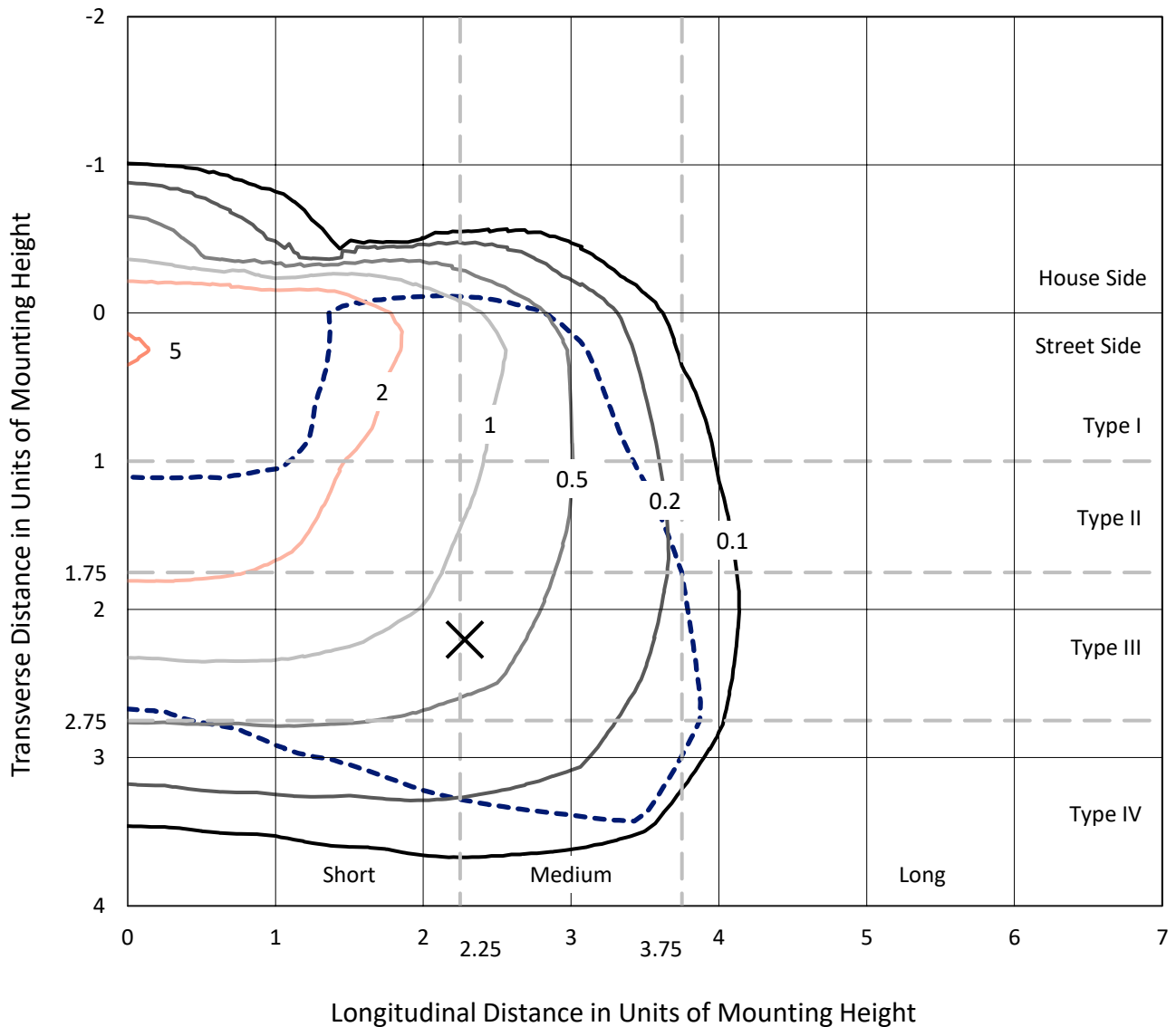
Lumens per Lamp: N/A  
Luminaire Lumens: 7838.6 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6  
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

REPORT NUMBER: P673604  
 CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

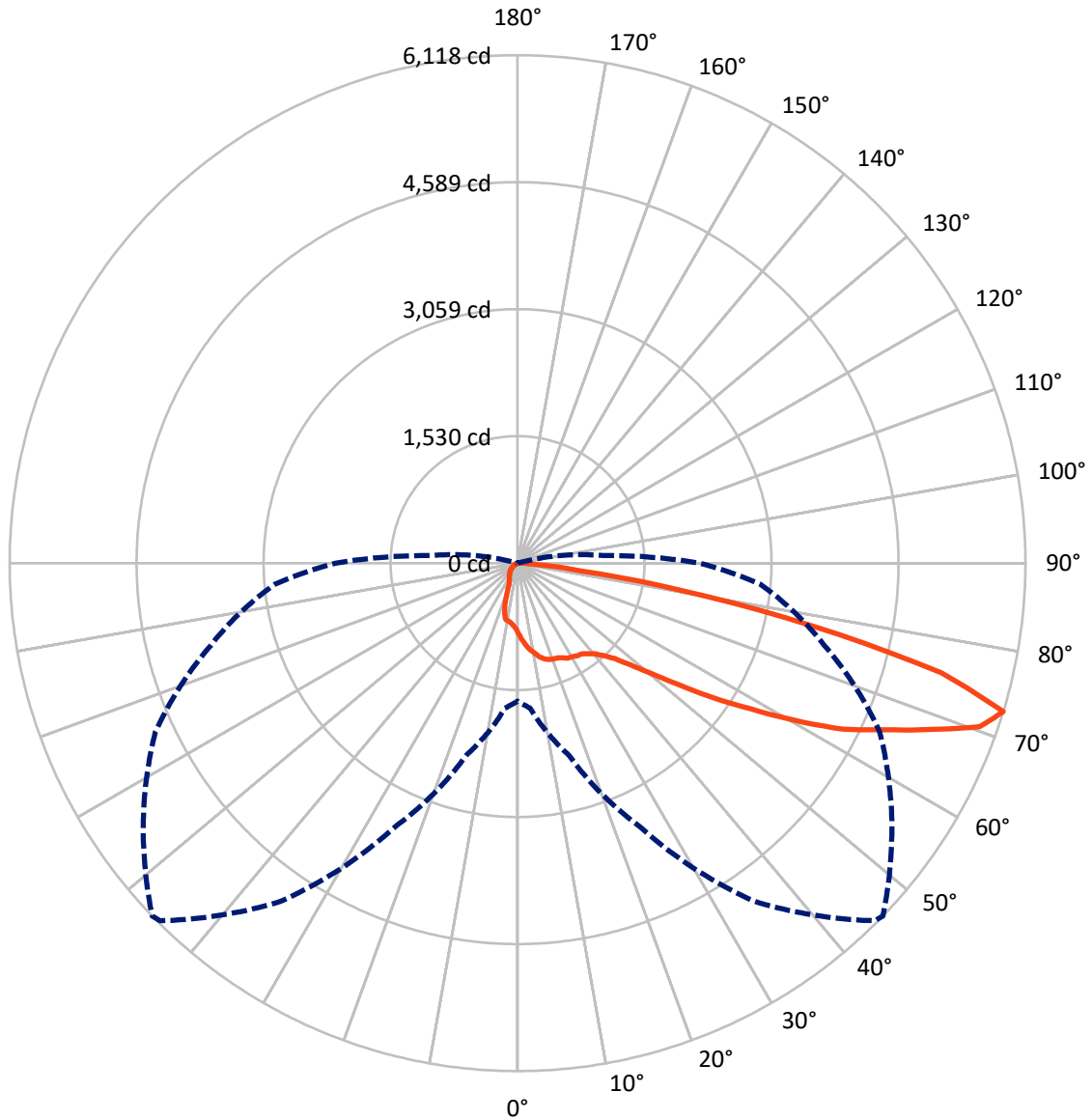
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P673604  
CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P673604

CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

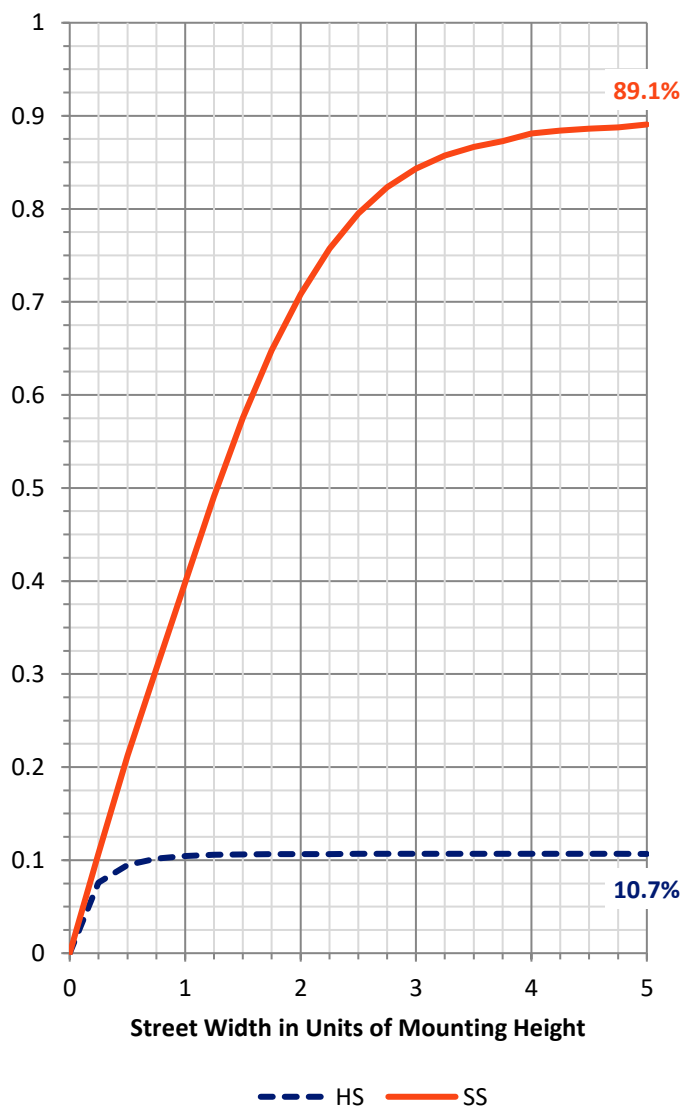
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	843.9	0.0	843.9
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	6994.7	0.0	6994.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	7838.6	0.0	7838.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.1
10°-20°	253.1	3.2
20°-30°	396.3	5.1
30°-40°	555.0	7.1
40°-50°	915.2	11.7
50°-60°	1645.0	21.0
60°-70°	2384.2	30.4
70°-80°	1488.0	19.0
80°-90°	118.0	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°	7838.6	100.0
0°-180°	7838.6	100.0

**Coefficient of Utilization**



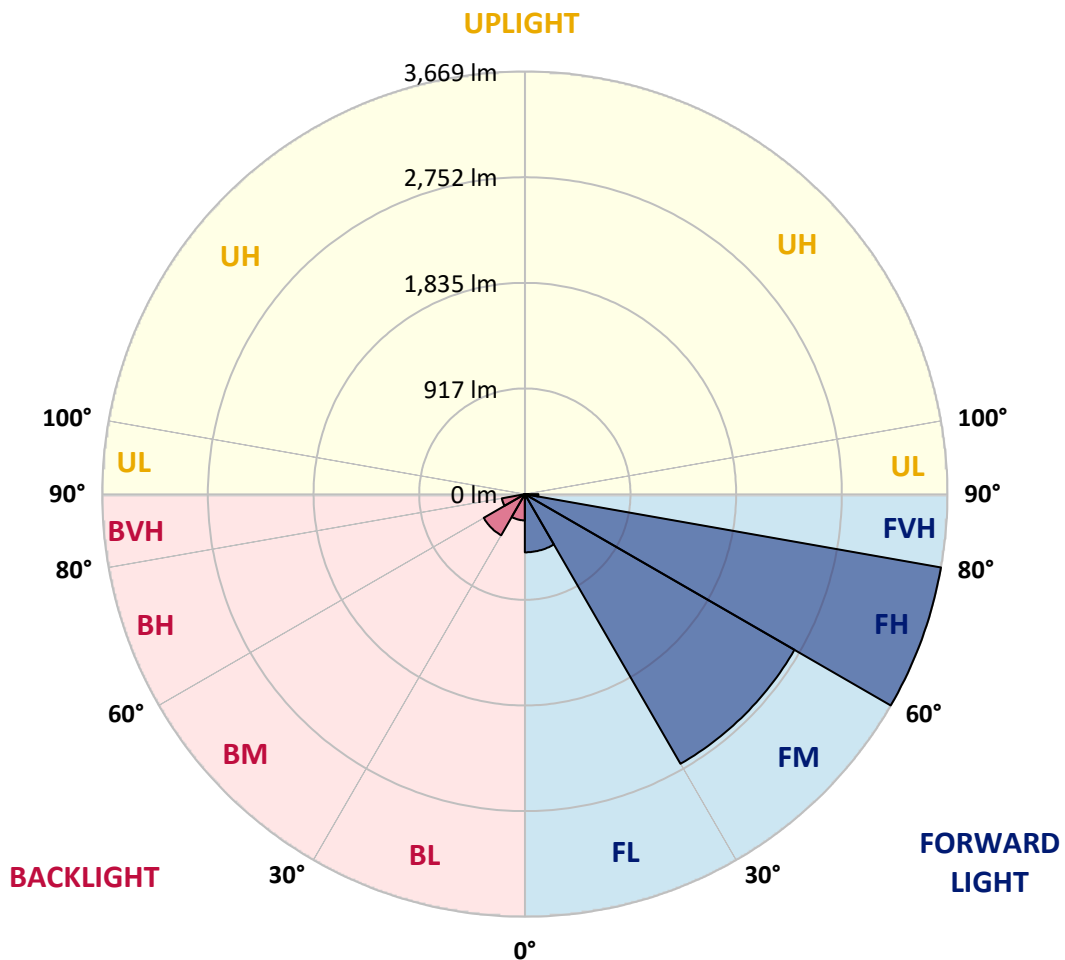
REPORT NUMBER: P673604  
 CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.2	6.4			
FM (30°-60°)	2702.9	34.5			
FH (60°-80°)	3669.2	46.8			G2/5000
FVH (80°-90°)	117.3	1.5			G2/225
BL (0°-30°)	228.1	2.9	B1/500		
BM (30°-60°)	412.3	5.3	B1/1000		
BH (60°-80°)	202.9	2.6	B1/500		G1/500
BVH (80°-90°)	0.6	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 IV Medium





REPORT NUMBER: P673604

CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	937.7	933.7	939.7	937.7	913.7	917.7	915.7	899.7	871.7	855.8	845.8
5°	1045.7	1055.7	1047.7	1029.7	1015.7	987.7	983.7	957.7	913.7	885.7	855.8
7.5°	1157.7	1157.7	1141.7	1113.7	1083.7	1053.7	1049.7	1005.7	967.7	919.7	877.7
10°	1241.6	1231.6	1219.6	1189.7	1155.7	1115.7	1095.7	1063.7	1021.7	963.7	909.7
12.5°	1315.6	1299.6	1279.6	1235.6	1195.7	1151.7	1155.7	1103.7	1075.7	1023.7	943.7
15°	1357.6	1343.6	1325.6	1285.6	1223.6	1203.6	1195.7	1163.7	1113.7	1061.7	985.7
17.5°	1367.6	1357.6	1333.6	1281.6	1247.6	1223.6	1221.6	1183.7	1161.7	1117.7	1033.7
20°	1347.6	1329.6	1311.6	1277.6	1245.6	1237.6	1231.6	1231.6	1203.6	1145.7	1063.7
22.5°	1313.6	1293.6	1283.6	1263.6	1237.6	1235.6	1239.6	1235.6	1213.6	1175.7	1095.7
25°	1287.6	1277.6	1261.6	1255.6	1239.6	1269.6	1263.6	1257.6	1251.6	1207.6	1145.7
27.5°	1295.6	1293.6	1281.6	1257.6	1245.6	1277.6	1295.6	1297.6	1295.6	1251.6	1191.7
30°	1299.6	1289.6	1277.6	1271.6	1275.6	1307.6	1307.6	1351.6	1333.6	1289.6	1237.6
32.5°	1345.6	1339.6	1299.6	1285.6	1287.6	1325.6	1327.6	1371.6	1365.6	1335.6	1277.6
35°	1443.6	1403.6	1345.6	1305.6	1305.6	1355.6	1339.6	1403.6	1419.6	1371.6	1305.6
37.5°	1589.5	1559.5	1455.6	1365.6	1331.6	1367.6	1383.6	1419.6	1467.6	1425.6	1361.6
40°	1879.5	1873.5	1725.5	1531.6	1397.6	1429.6	1435.6	1491.6	1523.6	1465.6	1447.6
42.5°	2303.3	2273.3	2135.4	1829.5	1517.6	1503.6	1525.6	1561.5	1637.5	1589.5	1545.5
45°	2717.2	2703.2	2565.3	2223.4	1735.5	1651.5	1639.5	1703.5	1815.5	1763.5	1729.5
47.5°	3017.1	2989.1	2911.2	2623.2	2055.4	1825.5	1833.5	1897.4	2039.4	1999.4	2009.4
50°	3247.1	3233.1	3151.1	2993.1	2459.3	2099.4	2083.4	2147.4	2339.3	2365.3	2393.3
52.5°	3499.0	3525.0	3415.0	3281.0	2937.1	2467.3	2431.3	2453.3	2701.2	2761.2	2839.2
55°	3740.9	3782.9	3672.9	3654.9	3437.0	2875.2	2869.2	2817.2	3137.1	3145.1	3187.1
57.5°	3898.9	3884.9	3876.9	3974.8	3936.9	3343.0	3313.0	3261.0	3551.0	3499.0	3624.9
60°	3910.9	3950.8	4084.8	4326.7	4394.7	3892.9	3848.9	3706.9	3908.9	3784.9	4024.8
62.5°	4000.8	4032.8	4280.8	4614.7	4702.6	4376.7	4406.7	4046.8	4214.8	4116.8	4468.7
65°	3772.9	3872.9	4370.7	4838.6	5106.5	4866.6	4836.6	4484.7	4528.7	4436.7	4906.6
67.5°	3567.0	3604.9	4124.8	4906.6	5426.4	5358.4	5346.4	4872.6	4852.6	4682.6	5030.5
70°	2899.2	2945.1	3459.0	4558.7	5534.4	5932.3	5904.3	5416.4	5072.5	4548.7	4394.7
72.5°	1661.5	1753.5	2397.3	3511.0	4972.6	6092.2	6118.2	5504.4	4812.6	3824.9	2935.1
75°	543.8	569.8	995.7	1989.4	3718.9	5314.5	5268.5	4730.6	3882.9	2525.3	1325.6
77.5°	183.9	187.9	293.9	719.8	2061.4	3591.0	3616.9	3381.0	2385.3	1049.7	365.9
80°	94.0	100.0	144.0	269.9	847.8	1955.4	1997.4	1927.4	999.7	309.9	88.0
82.5°	44.0	46.0	84.0	150.0	387.9	767.8	767.8	843.8	353.9	173.9	36.0
85°	16.0	16.0	44.0	86.0	164.0	255.9	257.9	259.9	185.9	130.0	16.0
87.5°	6.0	6.0	22.0	36.0	60.0	78.0	78.0	62.0	94.0	86.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P673604  
 CATALOG NUMBER: CCP-SA-2E-830-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
2.5°	841.8	829.8	819.8	805.8	787.8	777.8	779.8	767.8	767.8	761.8	759.8
5°	841.8	829.8	803.8	779.8	763.8	743.8	733.8	725.8	725.8	721.8	723.8
7.5°	847.8	829.8	793.8	761.8	735.8	715.8	699.8	697.8	693.8	683.8	691.8
10°	883.7	857.8	797.8	753.8	723.8	701.8	673.8	665.8	653.8	635.8	637.8
12.5°	913.7	879.7	825.8	765.8	727.8	691.8	627.8	557.8	527.8	495.9	497.9
15°	957.7	909.7	835.8	781.8	727.8	611.8	495.9	405.9	357.9	333.9	333.9
17.5°	981.7	941.7	863.7	791.8	669.8	497.9	351.9	273.9	265.9	269.9	269.9
20°	1031.7	977.7	895.7	799.8	573.8	353.9	257.9	249.9	253.9	261.9	259.9
22.5°	1063.7	1009.7	919.7	763.8	443.9	253.9	241.9	237.9	241.9	251.9	251.9
25°	1089.7	1055.7	957.7	675.8	313.9	229.9	225.9	229.9	233.9	237.9	243.9
27.5°	1153.7	1095.7	983.7	561.8	225.9	213.9	217.9	219.9	219.9	225.9	227.9
30°	1195.7	1149.7	1003.7	433.9	199.9	197.9	201.9	203.9	205.9	211.9	213.9
32.5°	1235.6	1219.6	977.7	293.9	187.9	183.9	181.9	183.9	191.9	197.9	195.9
35°	1293.6	1283.6	939.7	203.9	175.9	168.0	164.0	166.0	171.9	177.9	175.9
37.5°	1363.6	1373.6	847.8	177.9	164.0	154.0	146.0	146.0	148.0	154.0	156.0
40°	1445.6	1471.6	739.8	166.0	156.0	144.0	136.0	126.0	124.0	122.0	124.0
42.5°	1595.5	1625.5	617.8	158.0	144.0	130.0	118.0	106.0	96.0	90.0	90.0
45°	1805.5	1781.5	457.9	150.0	138.0	118.0	100.0	86.0	72.0	66.0	66.0
47.5°	2095.4	2013.4	313.9	142.0	128.0	104.0	84.0	66.0	54.0	48.0	48.0
50°	2497.3	2227.4	203.9	134.0	122.0	90.0	68.0	48.0	40.0	38.0	40.0
52.5°	2877.2	2445.3	162.0	124.0	110.0	78.0	52.0	40.0	36.0	34.0	34.0
55°	3227.1	2555.3	144.0	114.0	100.0	64.0	44.0	34.0	32.0	30.0	30.0
57.5°	3523.0	2593.2	124.0	100.0	80.0	50.0	36.0	30.0	26.0	24.0	24.0
60°	3778.9	2603.2	96.0	80.0	58.0	38.0	30.0	26.0	22.0	18.0	18.0
62.5°	3982.8	2533.3	68.0	56.0	40.0	30.0	26.0	18.0	12.0	8.0	6.0
65°	4144.8	2393.3	46.0	38.0	26.0	22.0	16.0	8.0	2.0	0.0	0.0
67.5°	3954.8	2075.4	36.0	28.0	18.0	14.0	8.0	2.0	0.0	0.0	0.0
70°	3225.1	1609.5	26.0	18.0	12.0	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2195.4	1037.7	20.0	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	985.7	371.9	14.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	239.9	88.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.0	22.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.0	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	0.0	0.0	0.0	0.0	0.0	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)