

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: P674777

Luminaire Tested: **CCP-SA-2D-840-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674777  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-840-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

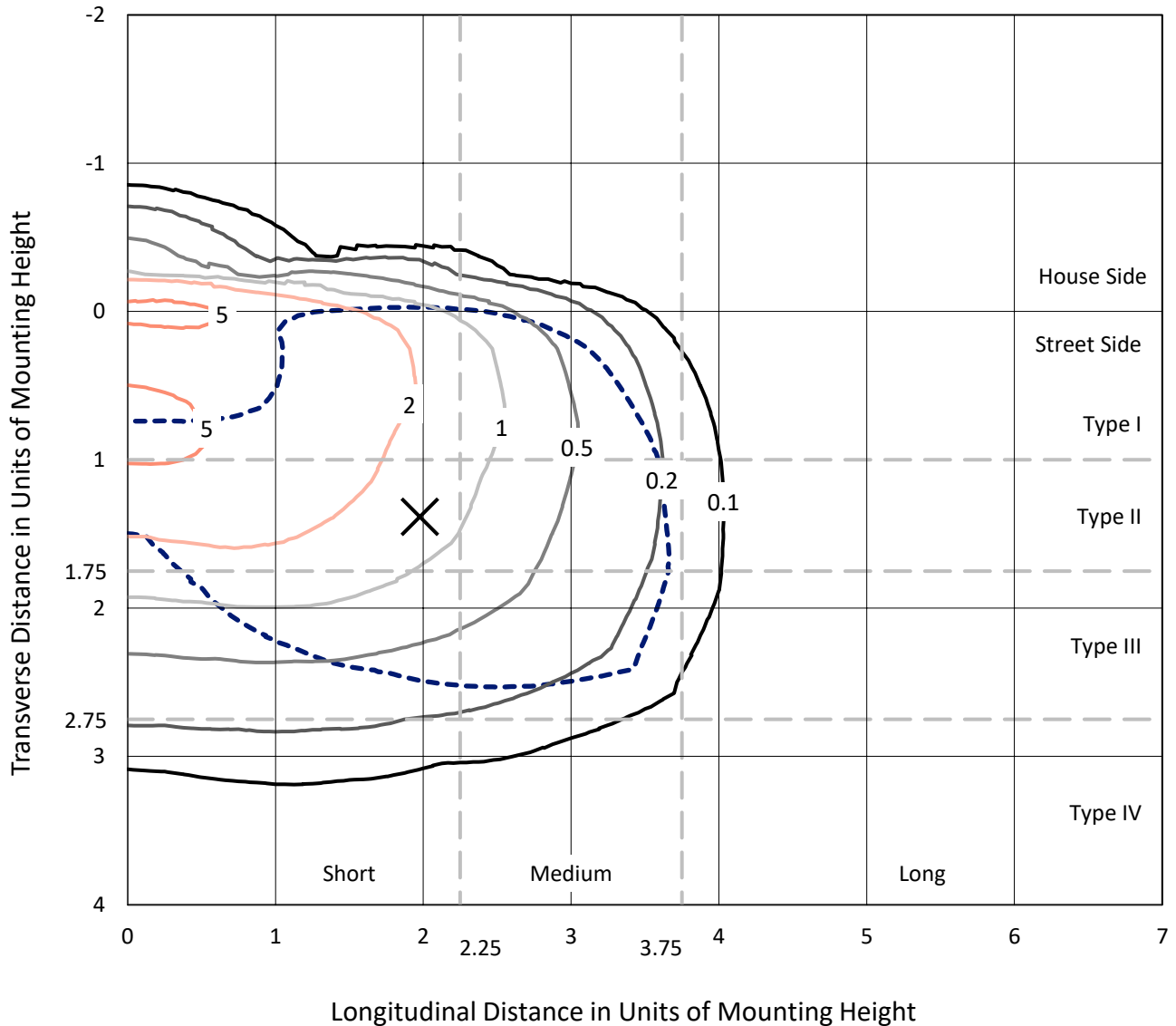
Lumens per Lamp: N/A  
Luminaire Lumens: 7541.4 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: CCP-SA-2D-840-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

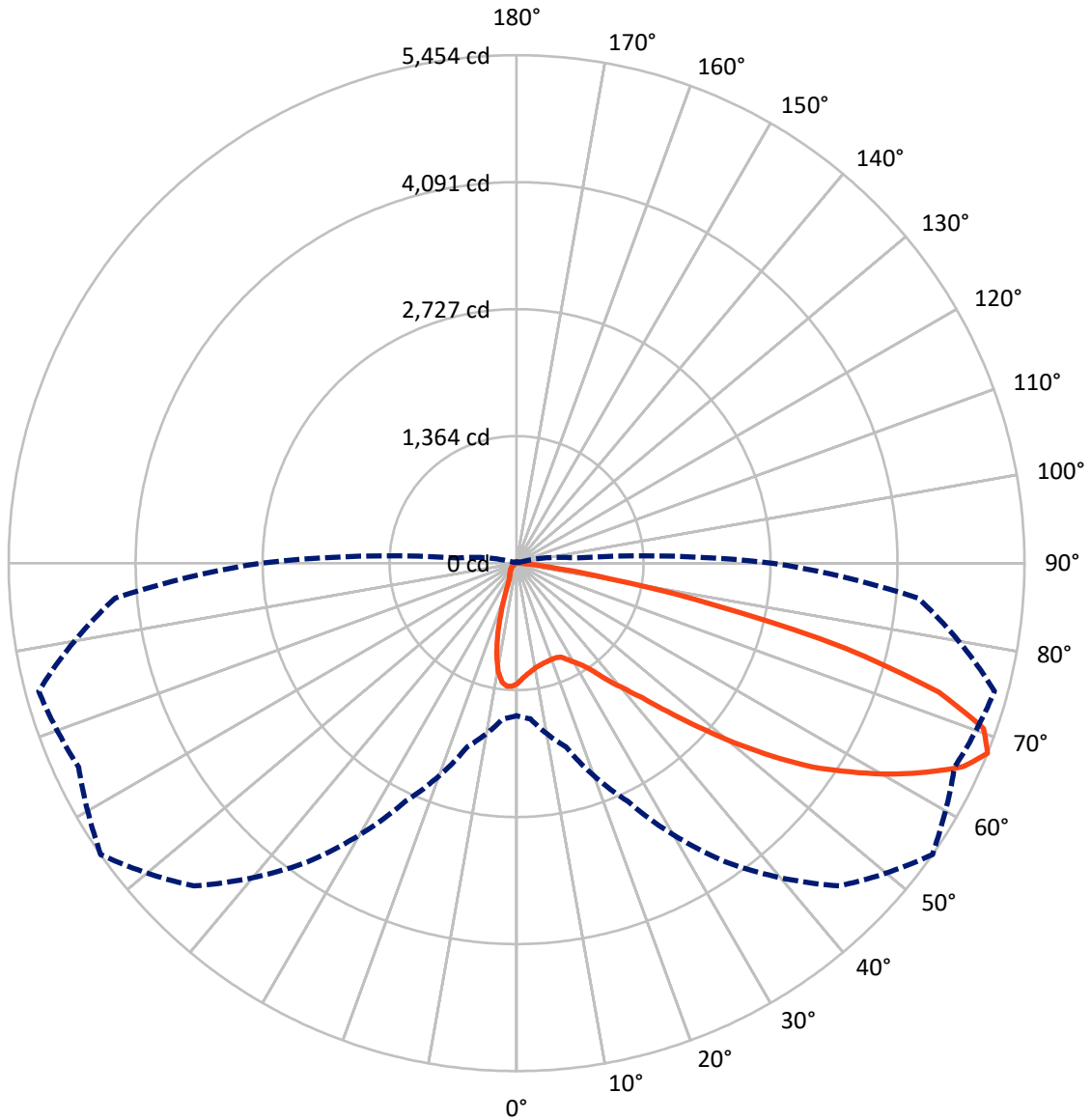
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P674777  
CATALOG NUMBER: CCP-SA-2D-840-U-T3R-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: CCP-SA-2D-840-U-T3R-HSS

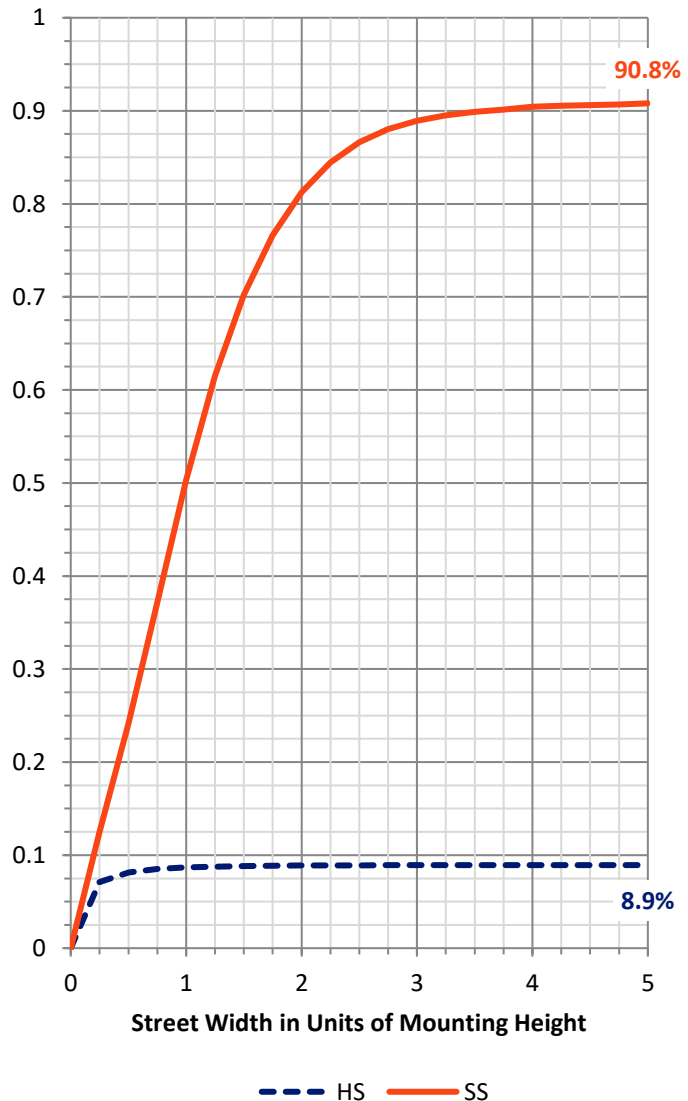
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	677.5	0.0	677.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	6863.9	0.0	6863.9
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	7541.4	0.0	7541.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	1.5
10°-20°	258.2	3.4
20°-30°	414.3	5.5
30°-40°	718.6	9.5
40°-50°	1198.2	15.9
50°-60°	1752.2	23.2
60°-70°	2043.0	27.1
70°-80°	991.5	13.1
80°-90°	51.8	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°	7541.4	100.0
0°-180°	7541.4	100.0



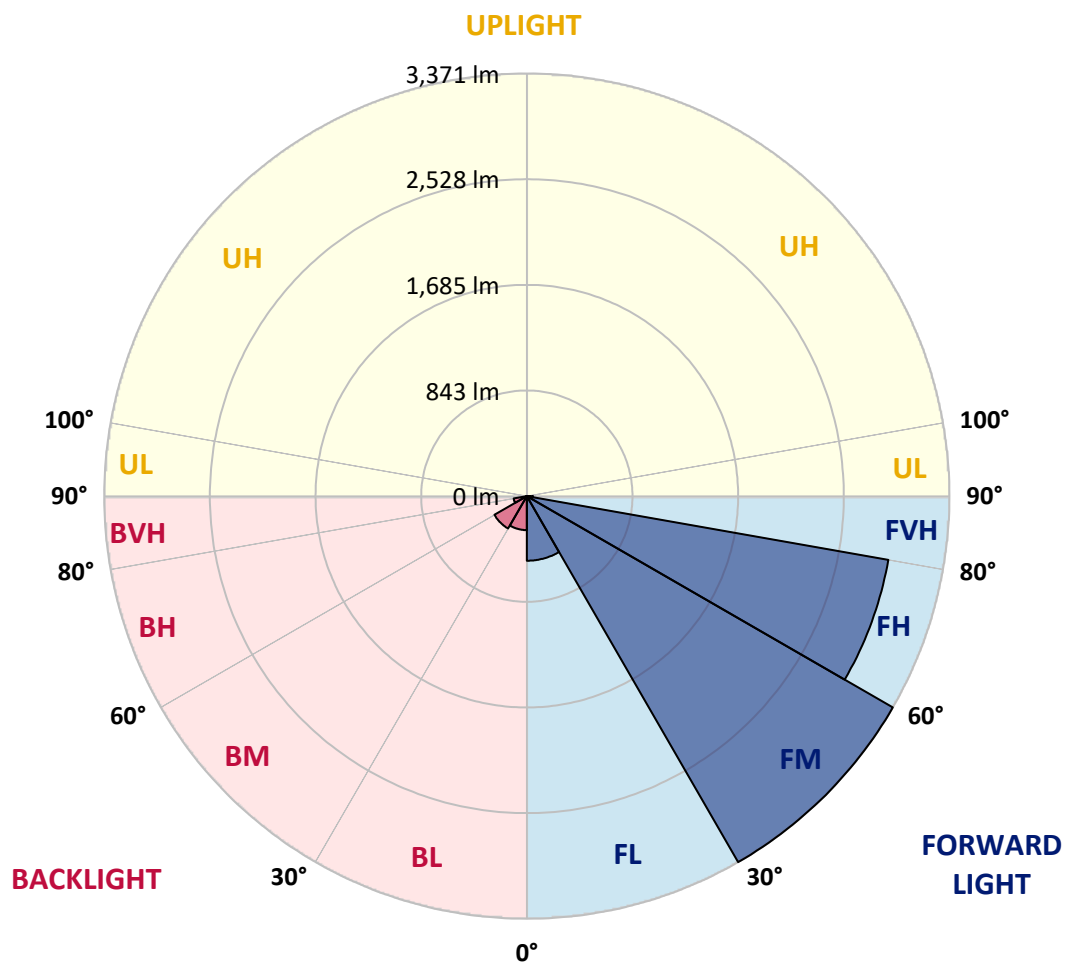
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 CATALOG NUMBER: CCP-SA-2D-840-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.2	6.8			
FM (30°-60°)	3370.7	44.7			
FH (60°-80°)	2927.7	38.8			G2/5000
FVH (80°-90°)	50.3	0.7			G1/100
BL (0°-30°)	270.8	3.6	B1/500		
BM (30°-60°)	298.3	4.0	B1/1000		
BH (60°-80°)	106.9	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





REPORT NUMBER: P674777

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4
2.5°	1193.0	1200.7	1210.4	1213.9	1225.7	1242.4	1237.5	1234.0	1252.8	1278.5	1286.8
5°	1118.7	1119.4	1134.7	1145.8	1165.9	1181.9	1199.3	1197.9	1231.9	1275.7	1303.5
7.5°	1045.7	1047.1	1063.1	1080.5	1109.6	1140.9	1167.3	1165.9	1220.8	1279.2	1332.0
10°	949.8	956.8	976.2	1006.8	1052.7	1102.0	1138.8	1142.3	1208.3	1292.4	1370.9
12.5°	872.7	876.2	897.7	937.3	991.5	1056.1	1124.9	1122.8	1211.1	1316.7	1421.6
15°	840.0	838.0	851.2	880.3	942.2	1023.5	1111.0	1115.9	1220.8	1344.5	1474.4
17.5°	847.7	845.6	852.6	863.0	906.8	996.4	1103.4	1111.7	1236.1	1373.7	1523.8
20°	932.5	917.9	905.4	894.2	900.5	974.1	1098.5	1107.6	1245.1	1395.9	1575.9
22.5°	1095.7	1077.7	1044.3	982.5	941.5	975.5	1099.9	1111.7	1265.3	1432.0	1639.1
25°	1361.9	1344.5	1272.9	1146.5	1038.1	1025.6	1118.7	1131.2	1311.8	1486.9	1706.5
27.5°	1714.1	1675.2	1588.4	1407.0	1197.9	1105.5	1175.0	1188.9	1377.8	1529.3	1752.4
30°	2006.7	1997.6	1914.3	1691.9	1418.1	1222.9	1238.2	1245.8	1407.7	1555.0	1798.2
32.5°	2310.3	2291.5	2215.1	1999.0	1673.8	1390.4	1309.1	1312.5	1446.6	1593.2	1864.9
35°	2574.3	2557.0	2493.0	2283.2	1972.6	1615.5	1426.5	1418.8	1527.2	1677.3	1955.2
37.5°	2818.9	2816.8	2760.6	2546.5	2240.8	1848.9	1599.5	1593.2	1653.0	1769.7	2077.5
40°	3057.9	3052.4	3004.4	2809.2	2504.9	2081.7	1764.2	1748.2	1760.0	1899.0	2238.7
42.5°	3204.5	3216.4	3233.0	3109.4	2818.2	2354.8	1972.6	1962.9	1960.8	2101.2	2450.7
45°	3283.8	3304.6	3402.6	3391.5	3150.3	2694.5	2269.3	2244.3	2236.0	2379.1	2693.2
47.5°	3360.9	3369.9	3530.4	3597.8	3468.6	3048.9	2627.8	2593.1	2559.1	2718.2	2982.9
50°	3365.7	3380.3	3579.1	3743.0	3735.4	3397.7	3030.1	2999.6	2960.7	3130.9	3265.7
52.5°	3297.7	3326.8	3572.8	3834.8	3900.8	3705.5	3447.7	3422.7	3390.8	3517.9	3504.0
55°	2827.3	2876.6	3450.5	3843.1	4016.8	3969.6	3867.4	3832.7	3801.4	3891.7	3737.5
57.5°	2603.5	2631.3	3079.5	3836.8	4164.8	4214.1	4231.5	4215.5	4171.7	4284.3	3981.4
60°	2469.4	2509.7	2902.3	3767.4	4324.6	4490.7	4599.8	4567.8	4514.3	4669.2	4242.6
62.5°	2308.9	2338.1	2725.8	3567.2	4419.8	4772.1	4945.1	4915.9	4805.4	5024.3	4453.8
65°	2012.9	2056.7	2445.1	3252.5	4292.0	4978.4	5270.3	5260.5	5068.8	5292.5	4511.5
67.5°	1638.4	1678.0	2040.0	2821.0	3918.1	4901.3	5454.4	5423.8	5188.3	5312.7	4328.8
70°	1229.8	1251.4	1524.5	2155.4	3210.1	4489.3	5321.0	5314.7	5006.9	5013.9	3768.1
72.5°	660.1	719.8	1013.8	1442.5	2257.5	3636.0	4742.2	4717.2	4467.0	4106.4	2709.8
75°	230.7	248.1	539.9	810.2	1226.4	2422.2	3646.5	3588.1	3340.7	2670.9	1476.5
77.5°	141.7	155.6	239.7	414.1	477.3	1051.3	2190.8	2115.1	1955.2	1154.8	504.4
80°	98.0	110.5	160.5	216.8	162.6	340.5	1008.2	979.7	753.9	275.2	116.0
82.5°	54.9	66.0	121.6	106.3	65.3	88.2	349.5	323.8	200.8	74.3	38.9
85°	32.0	38.2	85.5	75.0	33.4	31.3	91.0	81.3	52.1	27.8	18.8
87.5°	16.7	21.5	62.5	50.0	20.2	11.1	20.8	20.2	13.2	9.7	12.5
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°	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4
2.5°	1302.1	1298.6	1316.7	1323.0	1321.6	1318.8	1325.7	1316.7	1316.0	1313.9	1311.8
5°	1325.7	1331.3	1345.9	1345.9	1326.4	1294.5	1275.0	1248.6	1226.4	1213.2	1211.1
7.5°	1361.2	1372.3	1382.0	1352.1	1285.4	1206.2	1122.1	1056.1	998.5	968.6	965.8
10°	1411.2	1421.6	1414.0	1328.5	1185.4	1021.4	884.5	746.9	678.2	640.6	640.6
12.5°	1471.0	1479.3	1432.7	1269.5	1020.7	783.1	600.3	455.8	387.0	342.6	339.8
15°	1535.6	1537.7	1430.0	1166.6	817.1	526.0	344.6	252.9	223.7	217.5	216.1
17.5°	1591.9	1583.5	1400.8	1014.4	588.5	313.4	218.9	198.0	192.5	192.5	192.5
20°	1644.7	1616.9	1342.4	837.3	377.3	213.3	188.3	182.7	182.7	183.4	183.4
22.5°	1703.0	1648.1	1259.0	640.6	242.5	182.7	176.5	173.7	173.0	175.1	174.4
25°	1771.8	1678.7	1139.5	442.6	187.6	170.2	167.5	164.7	164.7	164.7	164.7
27.5°	1810.0	1674.5	1003.3	279.3	164.0	157.7	154.9	152.2	150.1	149.4	150.1
30°	1843.4	1650.2	825.5	195.2	148.0	141.1	139.0	135.5	131.3	129.9	129.9
32.5°	1887.2	1630.1	639.2	157.0	134.1	126.5	120.2	114.6	107.7	104.9	104.2
35°	1935.8	1593.2	468.3	138.3	121.6	111.9	102.1	93.1	84.1	81.3	80.6
37.5°	1996.2	1559.9	317.5	127.8	111.2	99.4	86.2	73.7	65.3	63.9	63.9
40°	2078.2	1532.1	219.6	118.8	101.4	87.5	71.6	58.4	52.8	51.4	51.4
42.5°	2190.1	1509.2	166.1	111.2	93.1	75.7	57.7	47.9	43.8	42.4	42.4
45°	2322.1	1473.7	140.4	104.2	84.8	63.9	47.9	40.3	38.2	38.2	38.2
47.5°	2473.6	1429.3	127.8	97.3	75.7	52.1	40.3	36.8	36.1	36.1	36.8
50°	2626.4	1376.5	118.8	88.9	65.3	44.5	36.8	34.7	34.7	35.4	35.4
52.5°	2730.0	1293.8	109.8	79.9	54.9	38.9	34.7	34.0	33.4	33.4	33.4
55°	2830.7	1221.5	97.3	70.2	45.9	36.1	33.4	32.7	32.7	32.0	32.0
57.5°	2935.6	1164.5	81.3	58.4	38.9	34.0	32.0	32.0	30.6	29.9	29.9
60°	3057.2	1114.5	62.5	45.9	34.0	32.0	29.9	29.2	27.8	26.4	26.4
62.5°	3092.7	1008.9	47.2	36.8	29.2	27.8	27.1	25.7	22.2	19.5	20.2
65°	3000.3	842.8	37.5	29.2	23.6	23.6	21.5	18.1	14.6	12.5	12.5
67.5°	2745.3	629.5	30.6	22.9	18.8	18.1	15.3	13.2	9.0	7.6	7.6
70°	2262.4	416.2	25.0	18.1	15.3	12.5	10.4	9.7	6.9	5.6	5.6
72.5°	1585.6	225.8	20.8	14.6	11.1	8.3	6.9	6.3	4.9	4.2	3.5
75°	837.3	86.9	16.7	11.1	6.9	5.6	4.2	4.2	3.5	2.8	2.8
77.5°	287.0	36.8	11.8	6.3	4.9	3.5	2.8	2.1	2.8	2.1	2.1
80°	68.1	21.5	7.6	4.2	2.8	2.1	2.1	1.4	1.4	1.4	1.4
82.5°	29.9	12.5	4.9	2.8	2.8	2.1	1.4	0.7	0.7	0.7	0.7
85°	20.2	7.6	3.5	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
87.5°	16.0	4.9	2.8	2.8	2.1	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)