

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: P676416

Luminaire Tested: **CCW-SA-2D-735-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676416  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-735-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T3 distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

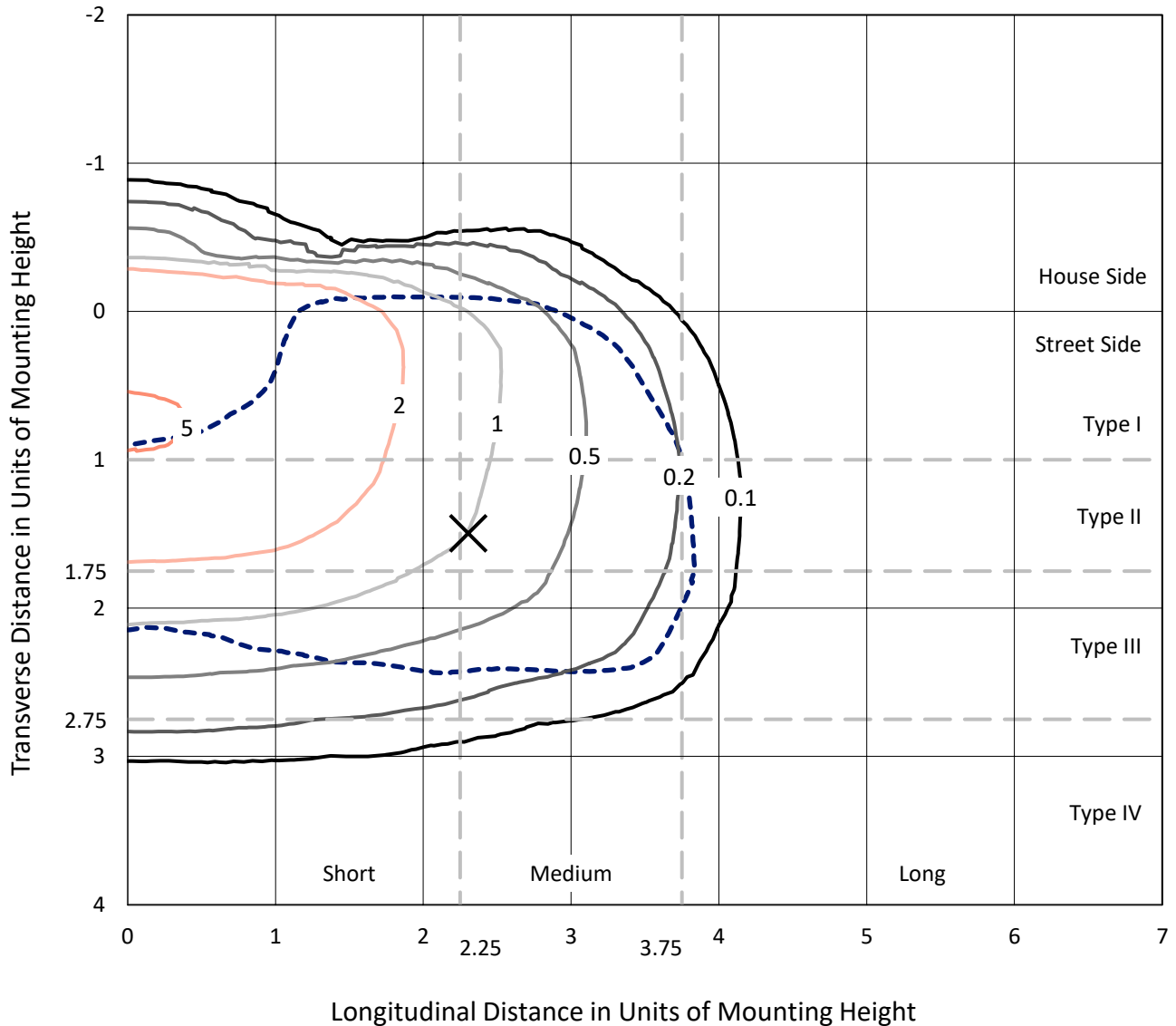
Lumens per Lamp: N/A  
Luminaire Lumens: 7924.5 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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

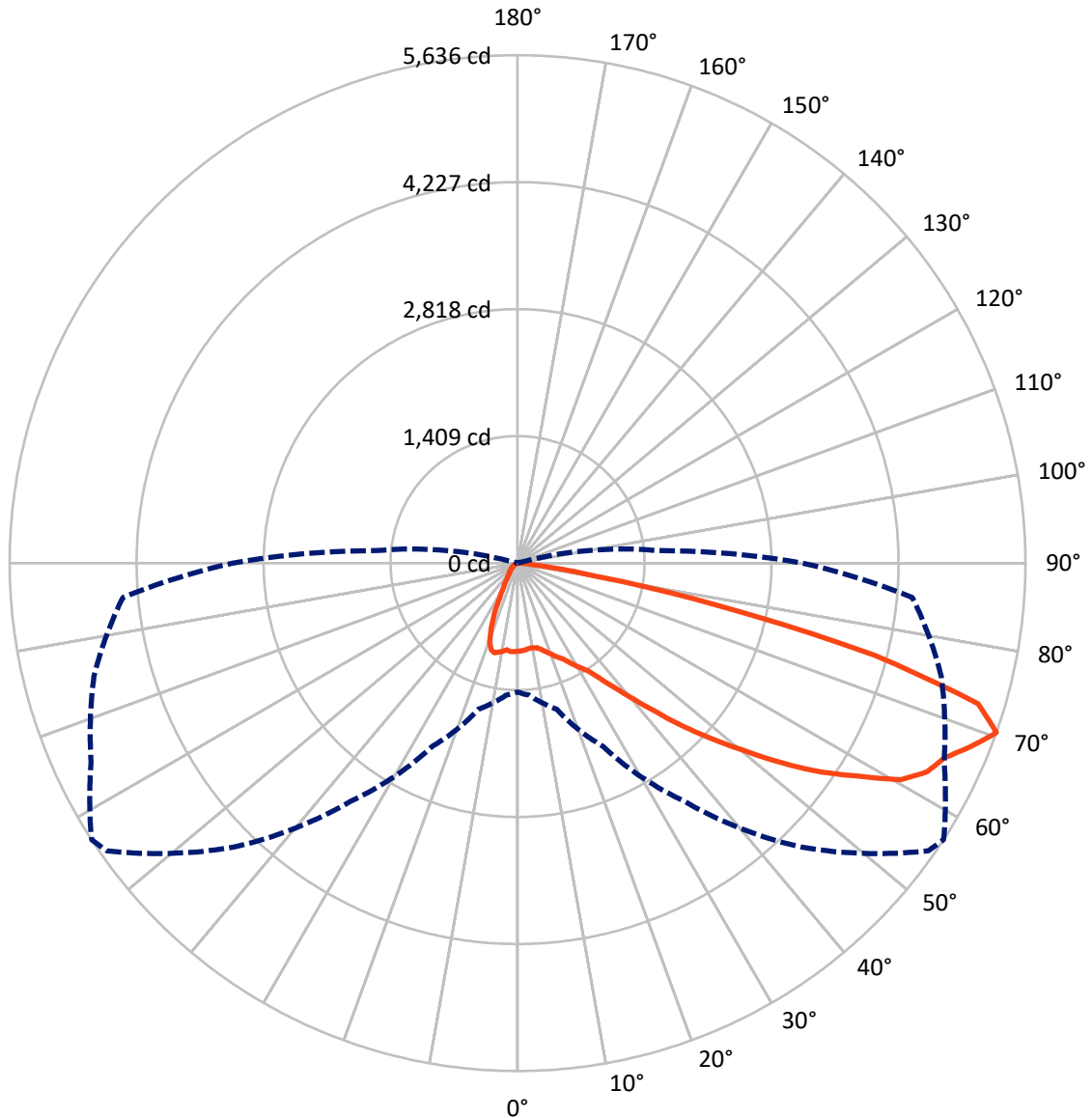
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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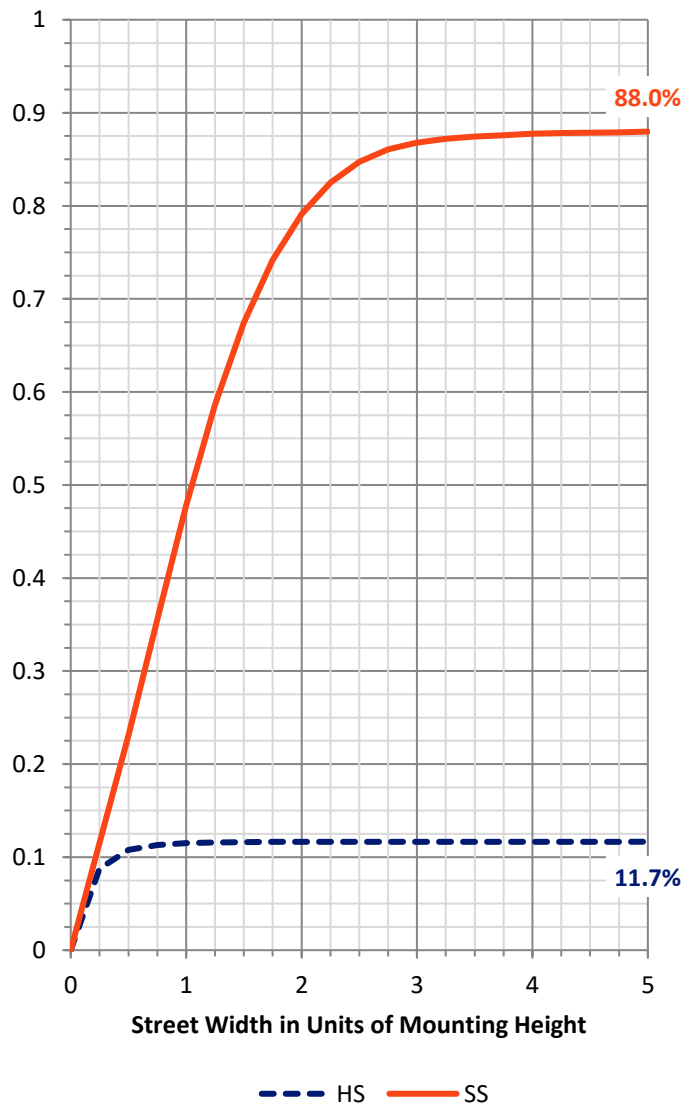
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	934.1	0.0	934.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	6990.4	0.0	6990.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	7924.5	0.0	7924.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	1.2
10°-20°	255.5	3.2
20°-30°	430.3	5.4
30°-40°	736.5	9.3
40°-50°	1236.6	15.6
50°-60°	1898.2	24.0
60°-70°	2191.6	27.7
70°-80°	1035.2	13.1
80°-90°	49.1	0.6
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°	7924.5	100.0
0°-180°	7924.5	100.0

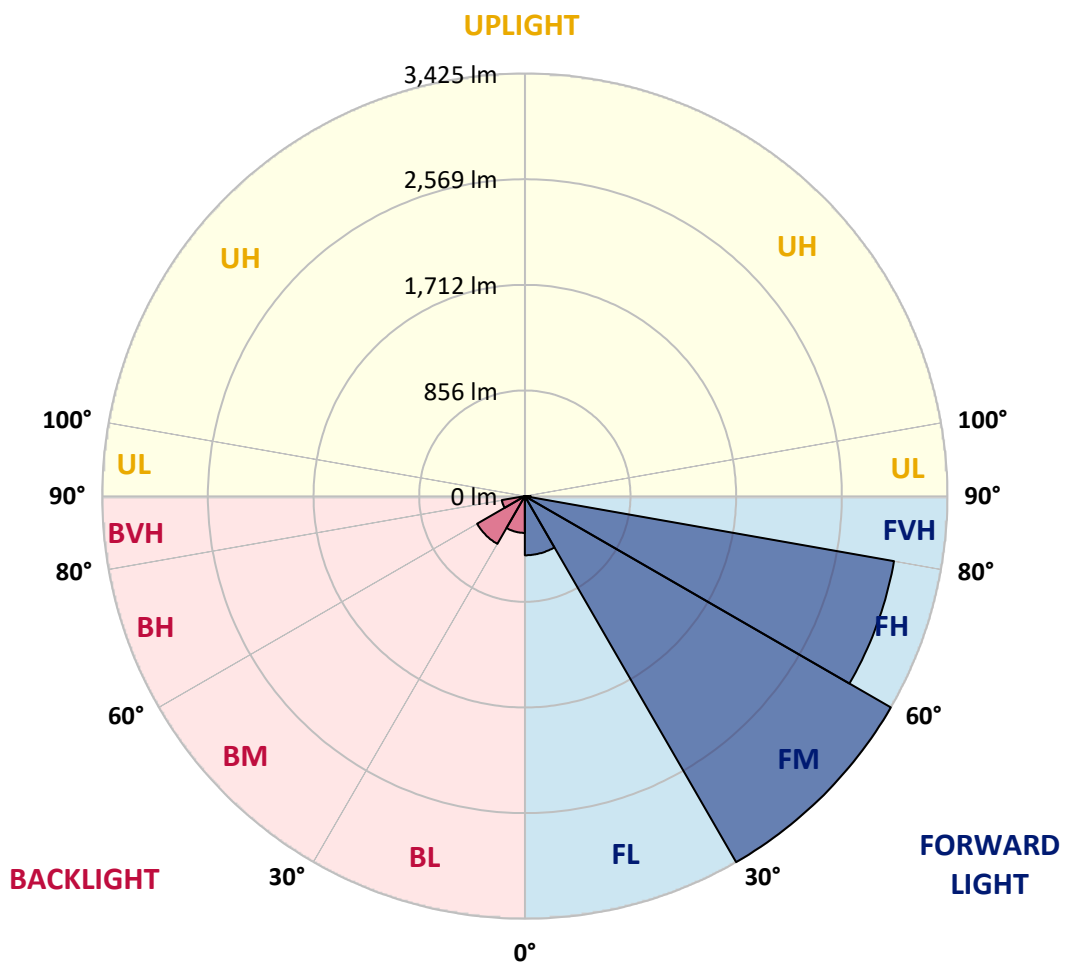


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.4	6.0			
FM (30°-60°)	3424.9	43.2			
FH (60°-80°)	3037.9	38.3			G2/5000
FVH (80°-90°)	48.2	0.6			G1/100
BL (0°-30°)	297.8	3.8	B1/500		
BM (30°-60°)	446.5	5.6	B1/1000		
BH (60°-80°)	188.9	2.4	B1/500		G1/500
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: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
2.5°	963.6	957.5	963.6	971.7	963.6	969.7	967.7	973.7	965.6	965.6	971.7
5°	900.9	911.0	915.0	925.1	935.3	953.5	965.6	965.6	977.8	983.9	992.0
7.5°	878.6	862.4	878.6	886.7	896.8	927.2	945.4	953.5	969.7	992.0	1004.1
10°	846.2	858.3	858.3	884.7	898.8	917.1	949.4	955.5	992.0	1014.2	1026.4
12.5°	844.2	844.2	854.3	872.5	900.9	935.3	975.8	963.6	1002.1	1042.6	1062.8
15°	850.2	864.4	864.4	888.7	911.0	959.6	994.0	996.0	1050.7	1091.1	1109.4
17.5°	876.6	870.5	878.6	892.8	927.2	973.7	1030.4	1036.5	1099.2	1153.9	1180.2
20°	931.2	941.3	929.2	921.1	935.3	996.0	1068.9	1081.0	1151.9	1204.5	1230.8
22.5°	1135.7	1127.6	1079.0	1022.3	998.0	1026.4	1105.3	1133.7	1216.7	1279.4	1301.7
25°	1366.5	1352.3	1295.6	1210.6	1099.2	1087.1	1178.2	1178.2	1297.6	1366.5	1360.4
27.5°	1585.1	1581.1	1514.2	1425.2	1267.3	1180.2	1236.9	1259.2	1388.7	1445.4	1419.1
30°	1807.8	1811.8	1751.1	1643.8	1477.8	1330.0	1319.9	1338.1	1457.6	1546.6	1492.0
32.5°	2066.9	2030.5	1988.0	1840.2	1688.3	1522.3	1427.2	1419.1	1534.5	1615.5	1542.6
35°	2297.7	2275.4	2228.9	2095.2	1921.1	1722.8	1589.1	1568.9	1631.7	1739.0	1660.0
37.5°	2500.1	2477.9	2417.1	2328.1	2192.4	1971.8	1783.5	1753.1	1779.4	1892.8	1797.7
40°	2674.2	2680.3	2664.1	2577.1	2451.5	2251.1	2034.5	1985.9	1963.7	2064.9	1957.6
42.5°	2799.7	2858.4	2862.5	2755.2	2654.0	2544.7	2301.7	2263.3	2210.6	2295.7	2220.8
45°	3062.9	3030.5	3050.8	3012.3	2901.0	2884.8	2609.4	2587.2	2514.3	2542.6	2463.7
47.5°	3269.4	3263.3	3301.8	3239.0	3208.7	3210.7	2959.7	2921.2	2818.0	2870.6	2781.5
50°	3388.8	3356.4	3496.1	3544.7	3538.6	3562.9	3313.9	3281.5	3182.3	3259.3	3069.0
52.5°	3417.2	3475.9	3607.5	3783.6	3858.5	3909.1	3700.6	3688.4	3581.2	3629.7	3366.6
55°	3488.0	3544.7	3621.6	3911.1	4188.5	4200.6	4081.2	4093.3	3998.2	3986.0	3650.0
57.5°	3486.0	3473.9	3686.4	4022.5	4407.1	4581.2	4516.4	4457.7	4354.5	4235.0	3832.2
60°	3358.5	3352.4	3573.1	4036.6	4526.5	4925.3	4951.7	4882.8	4623.7	4447.6	4046.8
62.5°	3105.4	3129.7	3352.4	3915.2	4639.9	5048.8	5146.0	5099.4	4777.6	4589.3	4299.8
65°	2815.9	2765.3	3024.4	3611.5	4384.8	5012.4	5222.9	5206.7	4959.8	4743.2	4532.6
67.5°	2259.2	2281.5	2479.9	3107.4	3949.6	4878.8	5403.1	5427.4	5105.5	4878.8	4603.5
70°	1431.2	1471.7	1678.2	2245.1	3224.9	4457.7	5565.1	5635.9	5220.9	4866.6	4397.0
72.5°	417.0	433.2	714.6	1119.5	2054.8	3575.1	5305.9	5342.4	4996.2	4417.2	3401.0
75°	137.7	145.8	210.5	364.4	805.7	1848.3	3919.2	4091.3	3975.9	3202.6	1945.4
77.5°	91.1	95.1	115.4	174.1	305.7	579.0	2101.3	2285.5	2241.0	1500.1	627.6
80°	66.8	68.8	85.0	117.4	186.2	208.5	775.3	896.8	866.4	344.1	125.5
82.5°	42.5	42.5	62.8	83.0	117.4	103.2	224.7	249.0	242.9	131.6	48.6
85°	28.3	30.4	46.6	64.8	64.8	48.6	64.8	74.9	81.0	70.9	22.3
87.5°	8.1	10.1	26.3	44.5	26.3	24.3	22.3	24.3	28.3	38.5	12.1
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°	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
2.5°	977.8	985.9	983.9	987.9	981.8	975.8	981.8	981.8	981.8	975.8	971.7
5°	985.9	981.8	985.9	977.8	985.9	977.8	973.7	961.6	959.6	959.6	967.7
7.5°	998.0	1002.1	983.9	983.9	965.6	969.7	959.6	961.6	957.5	951.5	947.4
10°	1016.2	1032.4	1014.2	1008.1	987.9	971.7	947.4	935.3	935.3	927.2	935.3
12.5°	1066.9	1060.8	1050.7	1030.4	1006.1	973.7	915.0	856.3	807.7	771.3	789.5
15°	1107.3	1105.3	1091.1	1052.7	1020.3	921.1	773.3	621.5	540.5	504.1	498.0
17.5°	1170.1	1164.0	1139.7	1089.1	981.8	763.2	530.4	402.9	323.9	305.7	299.6
20°	1228.8	1226.8	1174.1	1109.4	884.7	556.7	346.2	265.2	242.9	245.0	240.9
22.5°	1291.6	1281.4	1218.7	1085.1	704.5	370.5	247.0	236.9	228.8	226.7	230.8
25°	1362.4	1326.0	1263.2	1030.4	518.2	255.1	232.8	224.7	216.6	214.6	214.6
27.5°	1390.8	1366.5	1283.5	898.8	328.0	222.7	218.6	208.5	198.4	192.3	190.3
30°	1455.5	1415.1	1303.7	706.5	232.8	204.5	198.4	186.2	172.1	162.0	162.0
32.5°	1520.3	1471.7	1305.7	494.0	194.3	184.2	174.1	157.9	139.7	129.6	131.6
35°	1601.3	1534.5	1283.5	319.9	174.1	162.0	141.7	123.5	107.3	99.2	99.2
37.5°	1739.0	1676.2	1192.4	210.5	157.9	137.7	117.4	97.2	83.0	76.9	76.9
40°	1913.1	1832.1	1066.9	166.0	139.7	117.4	93.1	74.9	66.8	60.7	60.7
42.5°	2121.6	2020.3	880.6	147.8	123.5	97.2	72.9	58.7	50.6	50.6	48.6
45°	2330.1	2164.1	690.3	135.6	109.3	81.0	56.7	46.6	42.5	40.5	40.5
47.5°	2627.7	2338.2	494.0	123.5	95.1	62.8	46.6	38.5	34.4	32.4	34.4
50°	2913.1	2502.2	350.2	111.3	79.0	50.6	38.5	34.4	30.4	28.3	28.3
52.5°	3164.1	2615.5	245.0	97.2	66.8	42.5	34.4	30.4	28.3	26.3	26.3
55°	3301.8	2577.1	168.0	83.0	54.7	36.4	30.4	26.3	24.3	22.3	22.3
57.5°	3443.5	2469.8	127.5	68.8	44.5	34.4	28.3	24.3	22.3	20.2	20.2
60°	3562.9	2390.8	99.2	54.7	36.4	28.3	24.3	20.2	18.2	16.2	14.2
62.5°	3569.0	2232.9	72.9	40.5	28.3	24.3	20.2	16.2	10.1	8.1	6.1
65°	3593.3	2066.9	52.6	30.4	20.2	18.2	14.2	8.1	4.0	0.0	0.0
67.5°	3508.3	1870.5	42.5	22.3	14.2	10.1	6.1	2.0	0.0	0.0	0.0
70°	3162.1	1579.0	32.4	16.2	10.1	6.1	2.0	0.0	0.0	0.0	0.0
72.5°	2263.3	1026.4	22.3	12.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1206.5	437.3	16.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	378.6	111.3	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.0	30.4	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	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)