

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: P676693

Luminaire Tested: **CCW-SA-2D-730-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676693  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-730-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

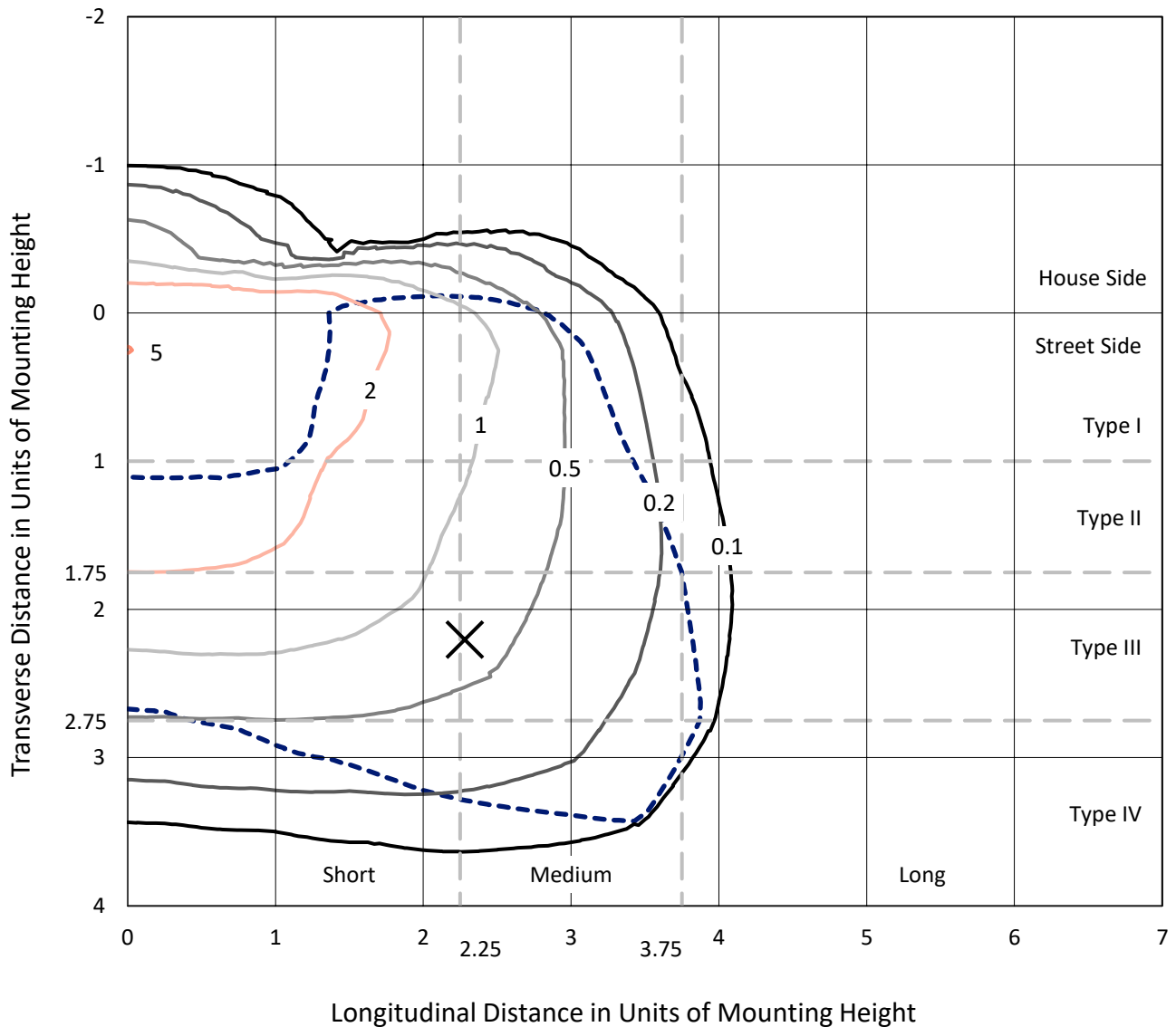
Lumens per Lamp: N/A  
Luminaire Lumens: 7327.2 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

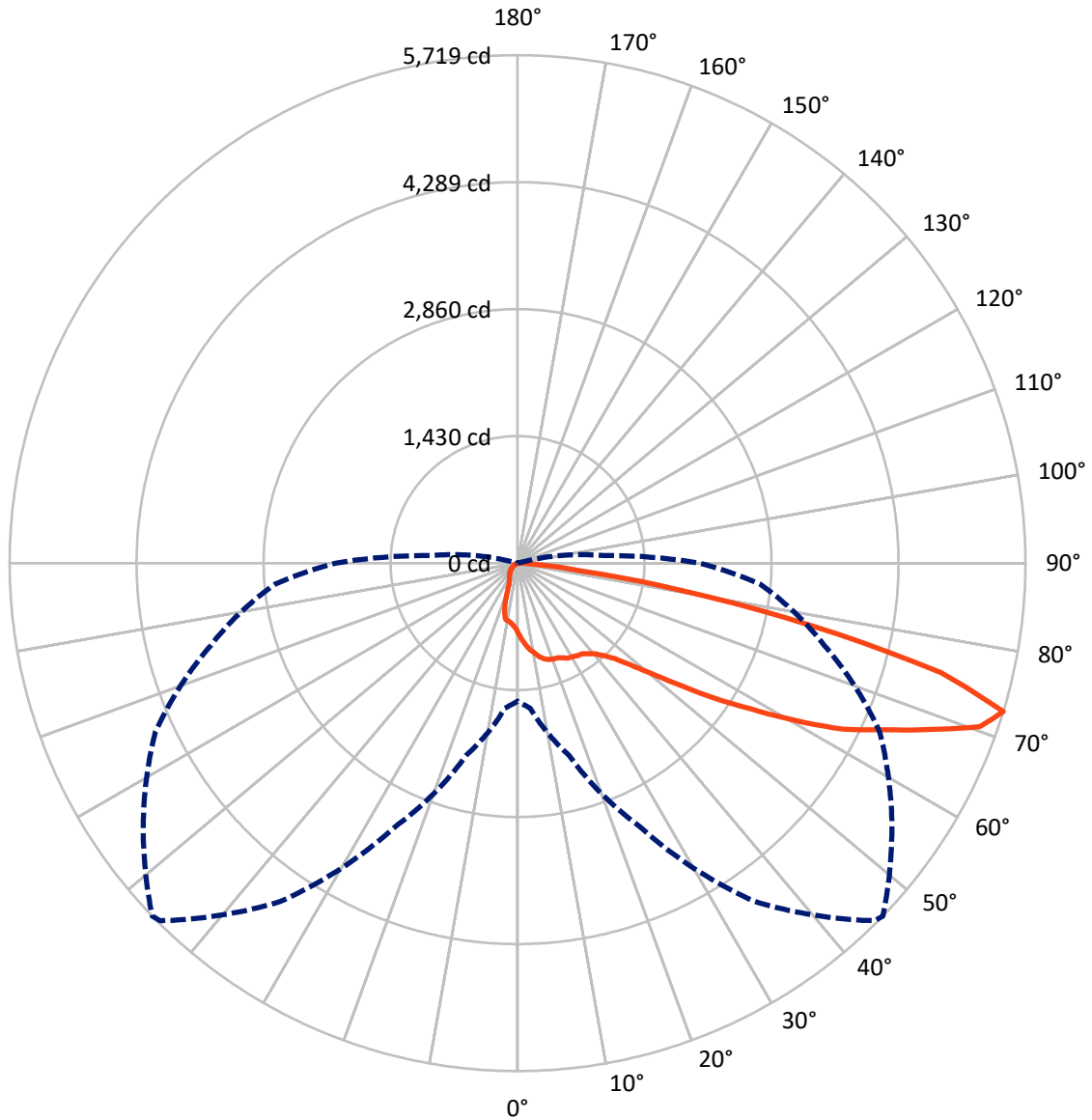
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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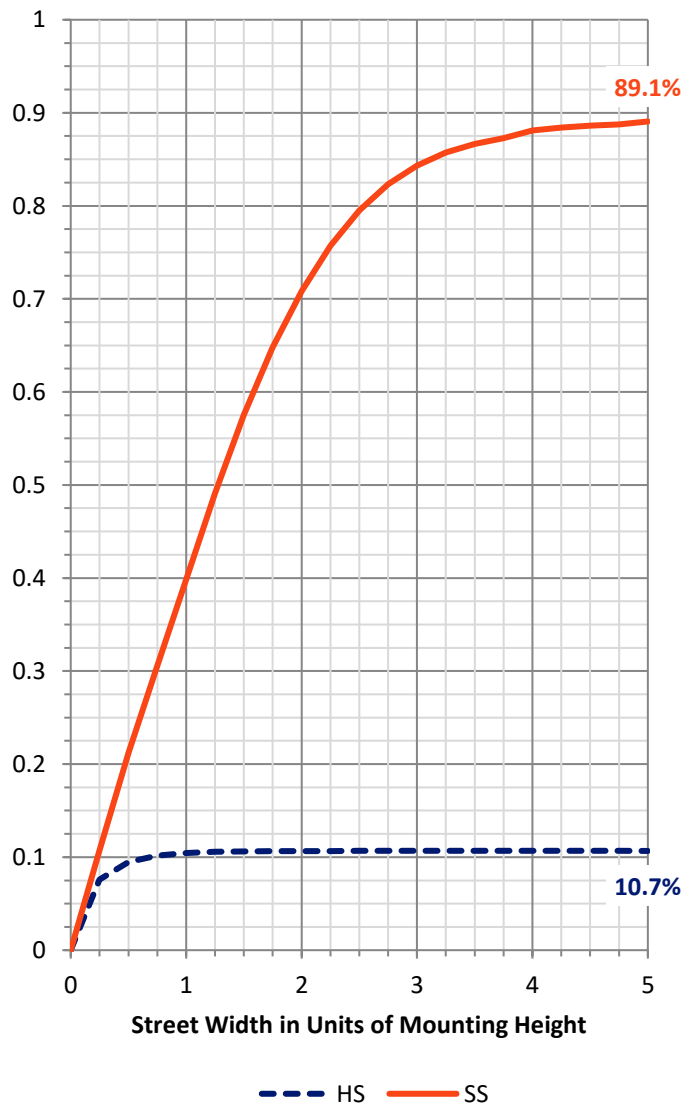
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	788.8	0.0	788.8
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	6538.3	0.0	6538.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	7327.2	0.0	7327.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.4	1.1
10°-20°	236.6	3.2
20°-30°	370.5	5.1
30°-40°	518.8	7.1
40°-50°	855.5	11.7
50°-60°	1537.6	21.0
60°-70°	2228.6	30.4
70°-80°	1390.9	19.0
80°-90°	110.3	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°	7327.2	100.0
0°-180°	7327.2	100.0

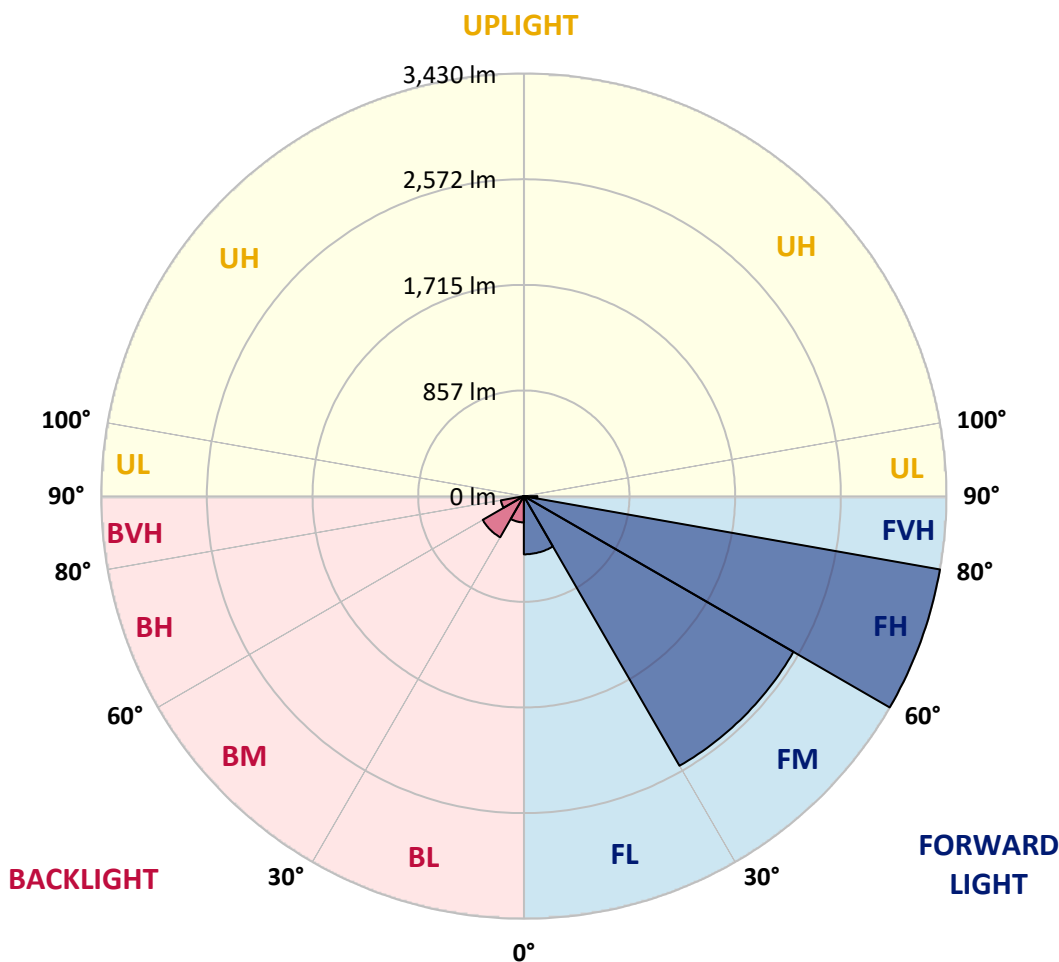


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.3	6.4			
FM (30°-60°)	2526.6	34.5			
FH (60°-80°)	3429.8	46.8			G2/5000
FVH (80°-90°)	109.7	1.5			G2/225
BL (0°-30°)	213.2	2.9	B1/500		
BM (30°-60°)	385.4	5.3	B1/1000		
BH (60°-80°)	189.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	876.5	872.8	878.4	876.5	854.1	857.9	856.0	841.0	814.9	799.9	790.6
5°	977.5	986.8	979.3	962.5	949.4	923.3	919.5	895.2	854.1	827.9	799.9
7.5°	1082.1	1082.1	1067.2	1041.0	1013.0	984.9	981.2	940.1	904.6	859.7	820.5
10°	1160.6	1151.3	1140.1	1112.0	1080.3	1042.9	1024.2	994.3	955.0	900.8	850.4
12.5°	1229.8	1214.8	1196.1	1155.0	1117.6	1076.5	1080.3	1031.7	1005.5	956.9	882.1
15°	1269.0	1255.9	1239.1	1201.7	1143.8	1125.1	1117.6	1087.7	1041.0	992.4	921.4
17.5°	1278.4	1269.0	1246.6	1198.0	1166.2	1143.8	1141.9	1106.4	1085.9	1044.7	966.3
20°	1259.7	1242.9	1226.0	1194.3	1164.4	1156.9	1151.3	1151.3	1125.1	1070.9	994.3
22.5°	1227.9	1209.2	1199.9	1181.2	1156.9	1155.0	1158.8	1155.0	1134.5	1098.9	1024.2
25°	1203.6	1194.3	1179.3	1173.7	1158.8	1186.8	1181.2	1175.6	1170.0	1128.9	1070.9
27.5°	1211.1	1209.2	1198.0	1175.6	1164.4	1194.3	1211.1	1213.0	1211.1	1170.0	1113.9
30°	1214.8	1205.5	1194.3	1188.7	1192.4	1222.3	1222.3	1263.4	1246.6	1205.5	1156.9
32.5°	1257.8	1252.2	1214.8	1201.7	1203.6	1239.1	1241.0	1282.1	1276.5	1248.5	1194.3
35°	1349.4	1312.0	1257.8	1220.4	1220.4	1267.2	1252.2	1312.0	1327.0	1282.1	1220.4
37.5°	1485.8	1457.8	1360.6	1276.5	1244.7	1278.4	1293.3	1327.0	1371.8	1332.6	1272.8
40°	1756.8	1751.2	1612.9	1431.6	1306.4	1336.3	1341.9	1394.2	1424.1	1369.9	1353.1
42.5°	2153.0	2125.0	1996.0	1710.1	1418.5	1405.5	1426.0	1459.7	1530.7	1485.8	1444.7
45°	2539.9	2526.8	2397.9	2078.3	1622.3	1543.8	1532.5	1592.4	1697.0	1648.4	1616.7
47.5°	2820.3	2794.1	2721.2	2452.1	1921.3	1706.4	1713.8	1773.6	1906.3	1869.0	1878.3
50°	3035.2	3022.1	2945.5	2797.8	2298.8	1962.4	1947.5	2007.3	2186.7	2211.0	2237.1
52.5°	3270.7	3295.0	3192.2	3067.0	2745.5	2306.3	2272.7	2293.2	2525.0	2581.0	2653.9
55°	3496.8	3536.1	3433.3	3416.5	3212.7	2687.6	2682.0	2633.4	2932.4	2939.9	2979.1
57.5°	3644.5	3631.4	3623.9	3715.5	3680.0	3124.9	3096.9	3048.3	3319.3	3270.7	3388.4
60°	3655.7	3693.1	3818.3	4044.4	4108.0	3638.9	3597.7	3465.1	3653.8	3537.9	3762.2
62.5°	3739.8	3769.7	4001.4	4313.6	4395.8	4091.2	4119.2	3782.8	3939.8	3848.2	4177.1
65°	3526.7	3620.2	4085.5	4522.9	4773.3	4549.0	4521.0	4192.1	4233.2	4147.2	4586.4
67.5°	3334.2	3369.7	3855.7	4586.4	5072.4	5008.8	4997.6	4554.7	4536.0	4377.1	4702.3
70°	2710.0	2753.0	3233.3	4261.2	5173.3	5545.2	5519.0	5063.0	4741.6	4251.9	4108.0
72.5°	1553.1	1639.1	2240.9	3281.9	4648.1	5694.7	5719.0	5145.2	4498.6	3575.3	2743.6
75°	508.4	532.7	930.7	1859.6	3476.3	4967.7	4924.7	4422.0	3629.5	2360.5	1239.1
77.5°	171.9	175.7	274.7	672.8	1926.9	3356.7	3380.9	3160.4	2229.7	981.2	342.0
80°	87.8	93.4	134.6	252.3	792.4	1827.8	1867.1	1801.7	934.5	289.7	82.2
82.5°	41.1	43.0	78.5	140.2	362.6	717.7	717.7	788.7	330.8	162.6	33.6
85°	15.0	15.0	41.1	80.4	153.3	239.2	241.1	243.0	173.8	121.5	15.0
87.5°	5.6	5.6	20.6	33.6	56.1	72.9	72.9	57.9	87.8	80.4	5.6
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°	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1	783.1
2.5°	786.8	775.6	766.3	753.2	736.4	727.0	728.9	717.7	717.7	712.1	710.2
5°	786.8	775.6	751.3	728.9	713.9	695.3	685.9	678.4	678.4	674.7	676.6
7.5°	792.4	775.6	742.0	712.1	687.8	669.1	654.1	652.3	648.5	639.2	646.7
10°	826.1	801.8	745.7	704.6	676.6	656.0	629.8	622.4	611.1	594.3	596.2
12.5°	854.1	822.3	771.9	715.8	680.3	646.7	586.9	521.4	493.4	463.5	465.4
15°	895.2	850.4	781.2	730.8	680.3	571.9	463.5	379.4	334.5	312.1	312.1
17.5°	917.7	880.3	807.4	740.1	626.1	465.4	328.9	256.0	248.6	252.3	252.3
20°	964.4	913.9	837.3	747.6	536.4	330.8	241.1	233.6	237.4	244.8	243.0
22.5°	994.3	943.8	859.7	713.9	414.9	237.4	226.1	222.4	226.1	235.5	235.5
25°	1018.6	986.8	895.2	631.7	293.4	214.9	211.2	214.9	218.7	222.4	228.0
27.5°	1078.4	1024.2	919.5	525.2	211.2	200.0	203.7	205.6	205.6	211.2	213.1
30°	1117.6	1074.7	938.2	405.6	186.9	185.0	188.8	190.6	192.5	198.1	200.0
32.5°	1155.0	1140.1	913.9	274.7	175.7	171.9	170.1	171.9	179.4	185.0	183.2
35°	1209.2	1199.9	878.4	190.6	164.5	157.0	153.3	155.1	160.7	166.3	164.5
37.5°	1274.6	1284.0	792.4	166.3	153.3	143.9	136.4	136.4	138.3	143.9	145.8
40°	1351.3	1375.6	691.5	155.1	145.8	134.6	127.1	117.7	115.9	114.0	115.9
42.5°	1491.4	1519.5	577.5	147.6	134.6	121.5	110.3	99.1	89.7	84.1	84.1
45°	1687.7	1665.2	428.0	140.2	129.0	110.3	93.4	80.4	67.3	61.7	61.7
47.5°	1958.7	1882.0	293.4	132.7	119.6	97.2	78.5	61.7	50.5	44.9	44.9
50°	2334.3	2082.0	190.6	125.2	114.0	84.1	63.5	44.9	37.4	35.5	37.4
52.5°	2689.4	2285.7	151.4	115.9	102.8	72.9	48.6	37.4	33.6	31.8	31.8
55°	3016.5	2388.5	134.6	106.5	93.4	59.8	41.1	31.8	29.9	28.0	28.0
57.5°	3293.1	2424.0	115.9	93.4	74.8	46.7	33.6	28.0	24.3	22.4	22.4
60°	3532.3	2433.4	89.7	74.8	54.2	35.5	28.0	24.3	20.6	16.8	16.8
62.5°	3723.0	2368.0	63.5	52.3	37.4	28.0	24.3	16.8	11.2	7.5	5.6
65°	3874.4	2237.1	43.0	35.5	24.3	20.6	15.0	7.5	1.9	0.0	0.0
67.5°	3696.8	1940.0	33.6	26.2	16.8	13.1	7.5	1.9	0.0	0.0	0.0
70°	3014.6	1504.5	24.3	16.8	11.2	3.7	1.9	0.0	0.0	0.0	0.0
72.5°	2052.1	970.0	18.7	11.2	5.6	1.9	0.0	0.0	0.0	0.0	0.0
75°	921.4	347.6	13.1	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	224.3	82.2	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.8	20.6	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	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)