

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: P676704

Luminaire Tested: **CCW-SA-2D-735-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676704  
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-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

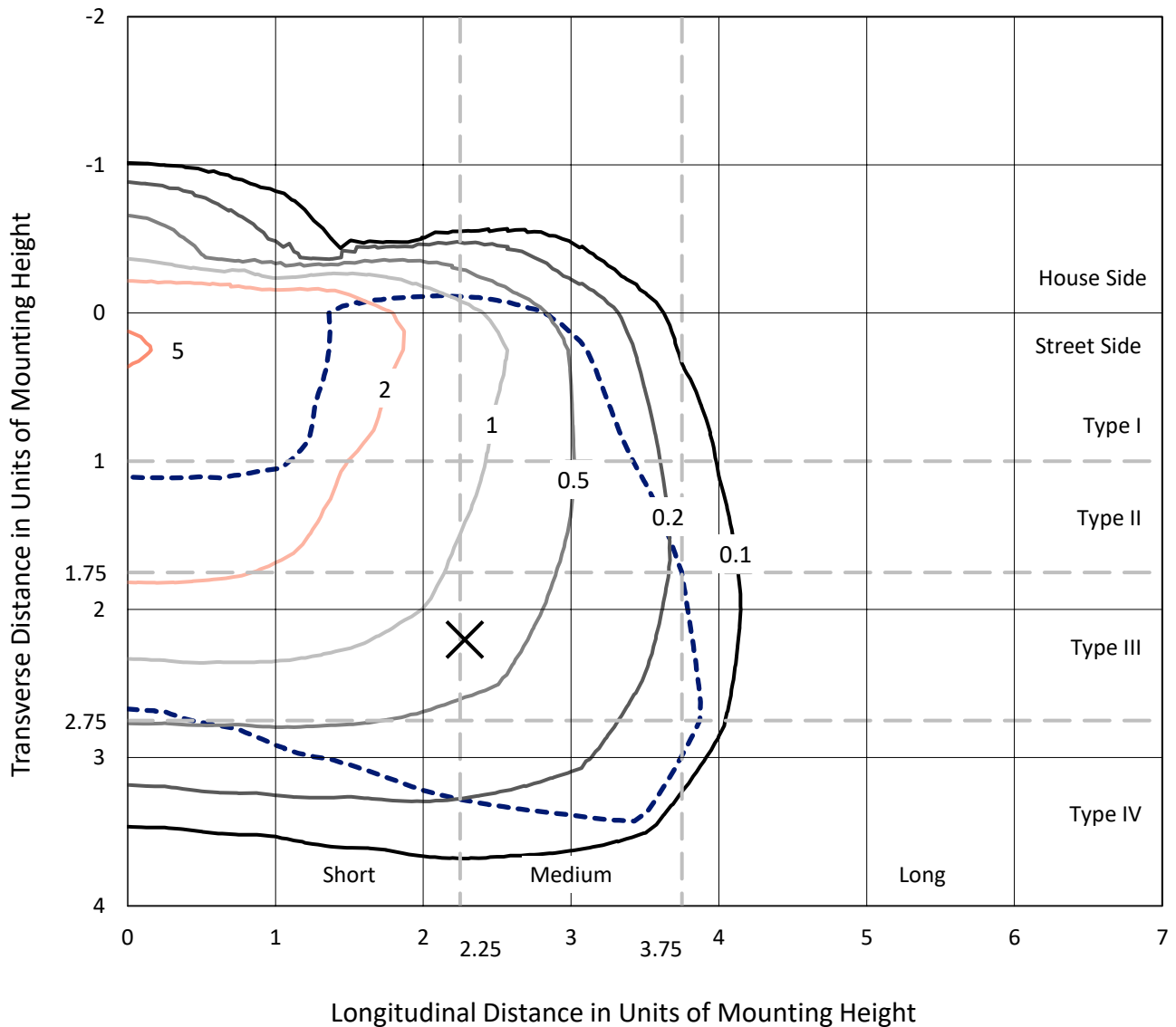
Lumens per Lamp: N/A  
Luminaire Lumens: 7936.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

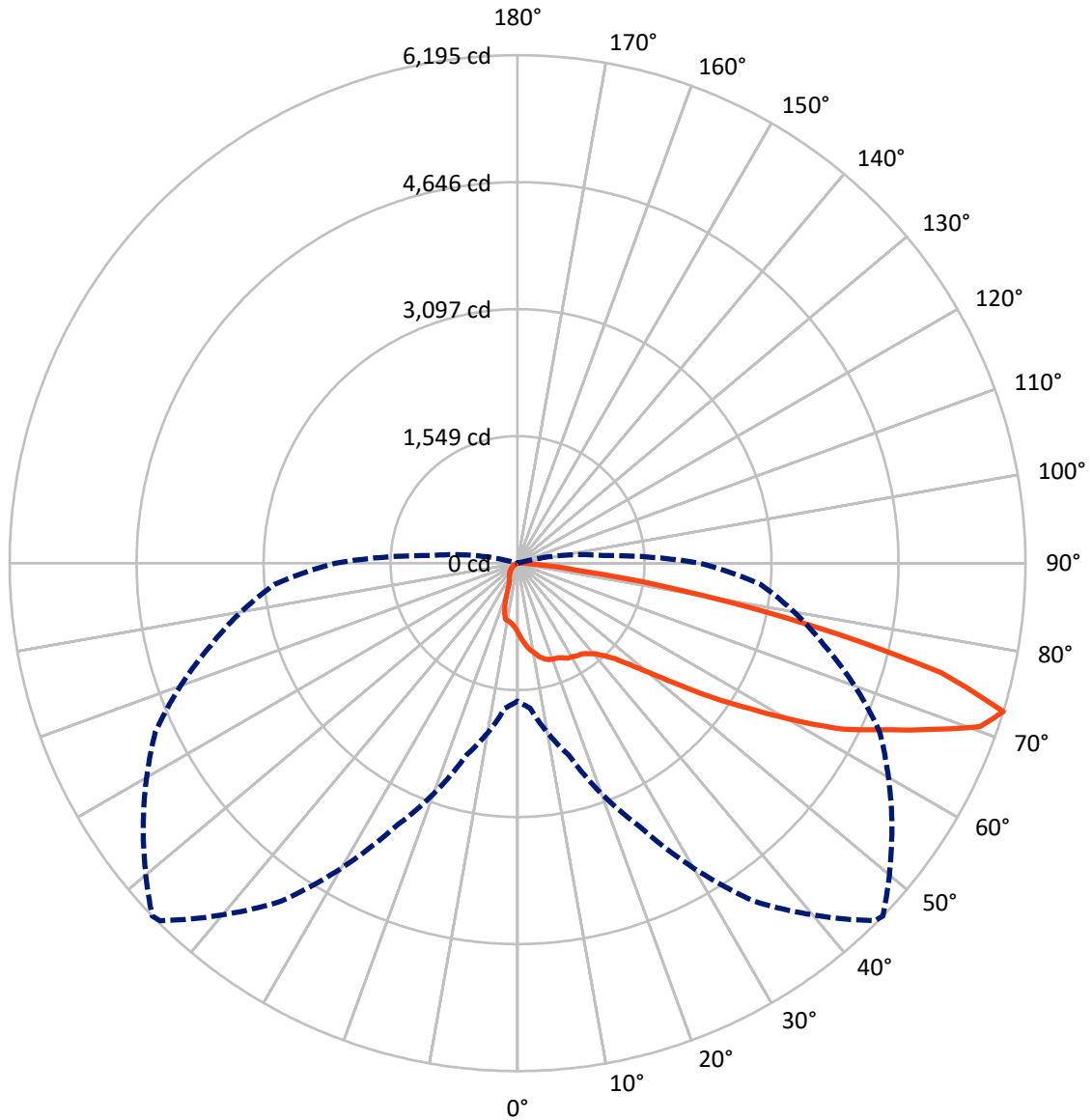
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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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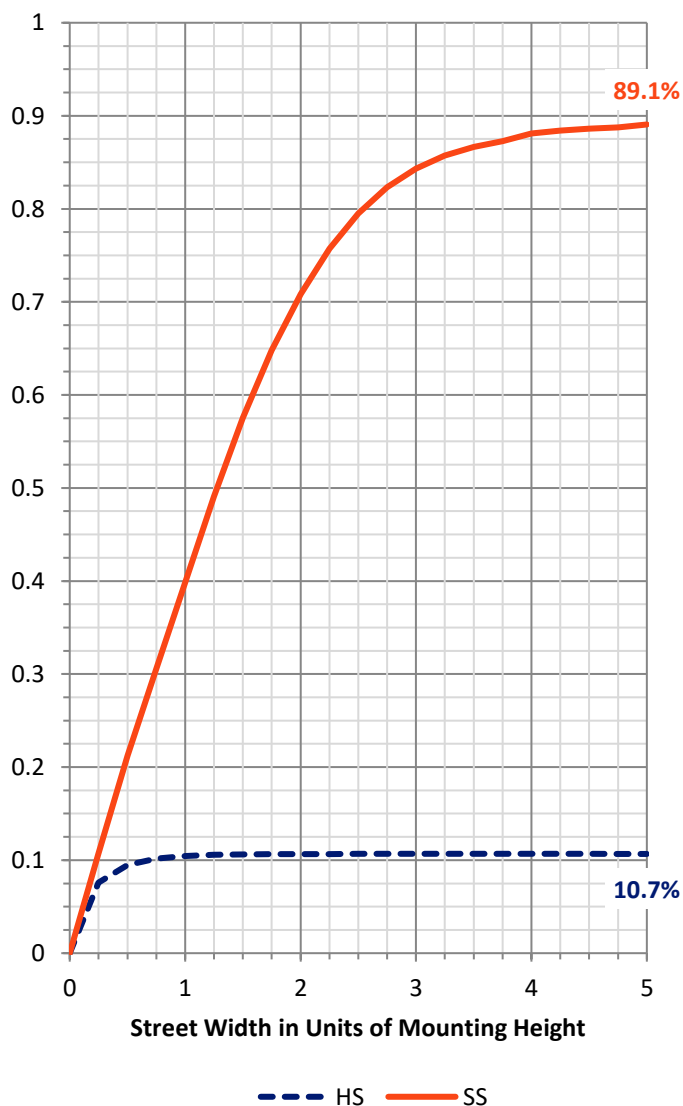
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	854.4	0.0	854.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	7081.8	0.0	7081.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	7936.3	0.0	7936.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	1.1
10°-20°	256.3	3.2
20°-30°	401.3	5.1
30°-40°	561.9	7.1
40°-50°	926.6	11.7
50°-60°	1665.5	21.0
60°-70°	2413.9	30.4
70°-80°	1506.5	19.0
80°-90°	119.4	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°	7936.3	100.0
0°-180°	7936.3	100.0



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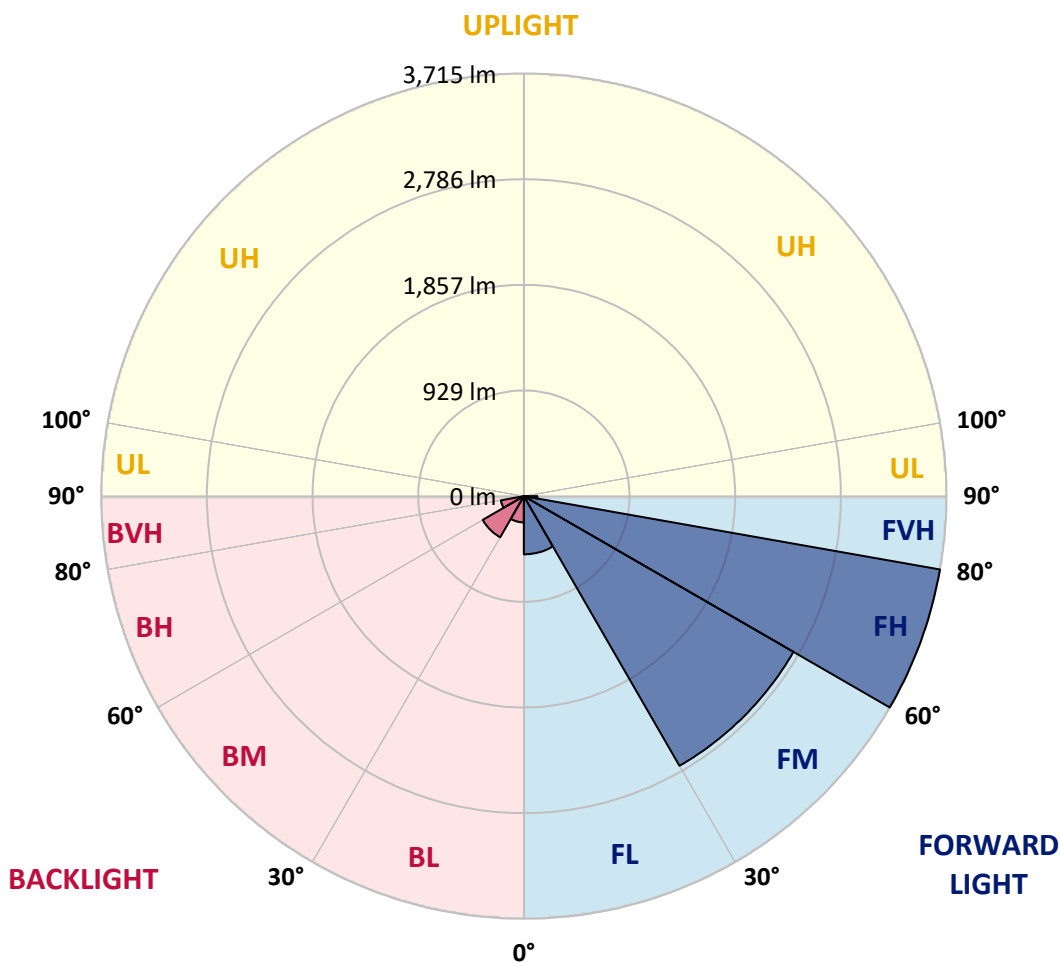
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.5	6.4			
FM (30°-60°)	2736.6	34.5			
FH (60°-80°)	3714.9	46.8			G2/5000
FVH (80°-90°)	118.8	1.5			G2/225
BL (0°-30°)	230.9	2.9	B1/500		
BM (30°-60°)	417.4	5.3	B1/1000		
BH (60°-80°)	205.5	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°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	949.4	945.4	951.4	949.4	925.1	929.2	927.1	910.9	882.6	866.4	856.3
5°	1058.7	1068.8	1060.7	1042.5	1028.4	1000.0	996.0	969.7	925.1	896.8	866.4
7.5°	1172.1	1172.1	1155.9	1127.6	1097.2	1066.8	1062.8	1018.2	979.8	931.2	888.7
10°	1257.1	1247.0	1234.8	1204.5	1170.1	1129.6	1109.3	1076.9	1034.4	975.7	921.1
12.5°	1332.0	1315.8	1295.6	1251.0	1210.5	1166.0	1170.1	1117.4	1089.1	1036.5	955.5
15°	1374.5	1360.4	1342.1	1301.6	1238.9	1218.6	1210.5	1178.2	1127.6	1074.9	998.0
17.5°	1384.6	1374.5	1350.2	1297.6	1263.2	1238.9	1236.9	1198.4	1176.1	1131.6	1046.6
20°	1364.4	1346.2	1328.0	1293.5	1261.2	1253.1	1247.0	1247.0	1218.6	1159.9	1076.9
22.5°	1330.0	1309.7	1299.6	1279.4	1253.1	1251.0	1255.1	1251.0	1228.8	1190.3	1109.3
25°	1303.7	1293.5	1277.4	1271.3	1255.1	1285.4	1279.4	1273.3	1267.2	1222.7	1159.9
27.5°	1311.8	1309.7	1297.6	1273.3	1261.2	1293.5	1311.8	1313.8	1311.8	1267.2	1206.5
30°	1315.8	1305.7	1293.5	1287.5	1291.5	1323.9	1323.9	1368.4	1350.2	1305.7	1253.1
32.5°	1362.4	1356.3	1315.8	1301.6	1303.7	1342.1	1344.2	1388.7	1382.6	1352.3	1293.5
35°	1461.6	1421.1	1362.4	1321.9	1321.9	1372.5	1356.3	1421.1	1437.3	1388.7	1321.9
37.5°	1609.3	1579.0	1473.7	1382.6	1348.2	1384.6	1400.8	1437.3	1485.9	1443.3	1378.6
40°	1902.9	1896.8	1747.0	1550.6	1415.0	1447.4	1453.5	1510.2	1542.5	1483.8	1465.6
42.5°	2332.0	2301.7	2162.0	1852.3	1536.5	1522.3	1544.6	1581.0	1657.9	1609.3	1564.8
45°	2751.1	2736.9	2597.2	2251.1	1757.1	1672.1	1660.0	1724.7	1838.1	1785.5	1751.0
47.5°	3054.7	3026.4	2947.4	2655.9	2081.0	1848.2	1856.3	1921.1	2064.8	2024.3	2034.5
50°	3287.5	3273.3	3190.3	3030.4	2489.9	2125.5	2109.4	2174.1	2368.5	2394.8	2423.1
52.5°	3542.6	3568.9	3457.6	3321.9	2973.7	2498.0	2461.6	2483.9	2734.9	2795.6	2874.5
55°	3787.5	3830.0	3718.7	3700.5	3479.8	2911.0	2904.9	2852.3	3176.2	3184.3	3226.8
57.5°	3947.4	3933.3	3925.2	4024.4	3985.9	3384.7	3354.3	3301.7	3595.2	3542.6	3670.1
60°	3959.6	4000.1	4135.7	4380.7	4449.5	3941.4	3896.8	3753.1	3957.6	3832.1	4075.0
62.5°	4050.7	4083.1	4334.1	4672.2	4761.2	4431.3	4461.6	4097.2	4267.3	4168.1	4524.4
65°	3819.9	3921.1	4425.2	4898.9	5170.1	4927.2	4896.9	4540.6	4585.1	4492.0	4967.7
67.5°	3611.4	3649.9	4176.2	4967.7	5494.0	5425.2	5413.1	4933.3	4913.0	4741.0	5093.2
70°	2935.3	2981.8	3502.1	4615.5	5603.3	6006.2	5977.8	5483.9	5135.7	4605.4	4449.5
72.5°	1682.2	1775.3	2427.2	3554.7	5034.5	6168.1	6194.5	5573.0	4872.6	3872.5	2971.7
75°	550.6	576.9	1008.1	2014.2	3765.3	5380.7	5334.1	4789.6	3931.2	2556.7	1342.1
77.5°	186.2	190.3	297.6	728.8	2087.1	3635.7	3662.0	3423.1	2415.0	1062.8	370.5
80°	95.1	101.2	145.8	273.3	858.3	1979.8	2022.3	1951.5	1012.2	313.8	89.1
82.5°	44.5	46.6	85.0	151.8	392.7	777.3	777.3	854.3	358.3	176.1	36.4
85°	16.2	16.2	44.5	87.0	166.0	259.1	261.1	263.2	188.3	131.6	16.2
87.5°	6.1	6.1	22.3	36.4	60.7	78.9	78.9	62.8	95.1	87.0	6.1
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°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	852.2	840.1	830.0	815.8	797.6	787.5	789.5	777.3	777.3	771.3	769.2
5°	852.2	840.1	813.8	789.5	773.3	753.1	742.9	734.8	734.8	730.8	732.8
7.5°	858.3	840.1	803.7	771.3	745.0	724.7	708.5	706.5	702.4	692.3	700.4
10°	894.8	868.4	807.7	763.2	732.8	710.5	682.2	674.1	662.0	643.7	645.8
12.5°	925.1	890.7	836.0	775.3	736.9	700.4	635.6	564.8	534.4	502.0	504.1
15°	969.7	921.1	846.2	791.5	736.9	619.4	502.0	410.9	362.4	338.1	338.1
17.5°	993.9	953.5	874.5	801.6	678.2	504.1	356.3	277.3	269.2	273.3	273.3
20°	1044.6	989.9	906.9	809.7	581.0	358.3	261.1	253.0	257.1	265.2	263.2
22.5°	1076.9	1022.3	931.2	773.3	449.4	257.1	244.9	240.9	244.9	255.1	255.1
25°	1103.3	1068.8	969.7	684.2	317.8	232.8	228.7	232.8	236.8	240.9	247.0
27.5°	1168.0	1109.3	996.0	568.8	228.7	216.6	220.7	222.7	222.7	228.7	230.8
30°	1210.5	1164.0	1016.2	439.3	202.4	200.4	204.5	206.5	208.5	214.6	216.6
32.5°	1251.0	1234.8	989.9	297.6	190.3	186.2	184.2	186.2	194.3	200.4	198.4
35°	1309.7	1299.6	951.4	206.5	178.1	170.0	166.0	168.0	174.1	180.2	178.1
37.5°	1380.6	1390.7	858.3	180.2	166.0	155.9	147.8	147.8	149.8	155.9	157.9
40°	1463.6	1489.9	749.0	168.0	157.9	145.8	137.7	127.5	125.5	123.5	125.5
42.5°	1615.4	1645.8	625.5	159.9	145.8	131.6	119.4	107.3	97.2	91.1	91.1
45°	1828.0	1803.7	463.6	151.8	139.7	119.4	101.2	87.0	72.9	66.8	66.8
47.5°	2121.5	2038.5	317.8	143.7	129.6	105.3	85.0	66.8	54.7	48.6	48.6
50°	2528.4	2255.1	206.5	135.6	123.5	91.1	68.8	48.6	40.5	38.5	40.5
52.5°	2913.0	2475.8	164.0	125.5	111.3	78.9	52.6	40.5	36.4	34.4	34.4
55°	3267.3	2587.1	145.8	115.4	101.2	64.8	44.5	34.4	32.4	30.4	30.4
57.5°	3566.9	2625.6	125.5	101.2	81.0	50.6	36.4	30.4	26.3	24.3	24.3
60°	3826.0	2635.7	97.2	81.0	58.7	38.5	30.4	26.3	22.3	18.2	18.2
62.5°	4032.5	2564.8	68.8	56.7	40.5	30.4	26.3	18.2	12.1	8.1	6.1
65°	4196.4	2423.1	46.6	38.5	26.3	22.3	16.2	8.1	2.0	0.0	0.0
67.5°	4004.1	2101.3	36.4	28.3	18.2	14.2	8.1	2.0	0.0	0.0	0.0
70°	3265.2	1629.6	26.3	18.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	2222.7	1050.6	20.2	12.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
75°	998.0	376.5	14.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	242.9	89.1	10.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.8	22.3	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.3	8.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	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)