

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: P673404

Luminaire Tested: **CCP-SA-2D-735-U-T4FT-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673404
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-735-U-T4FT-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T4FT distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

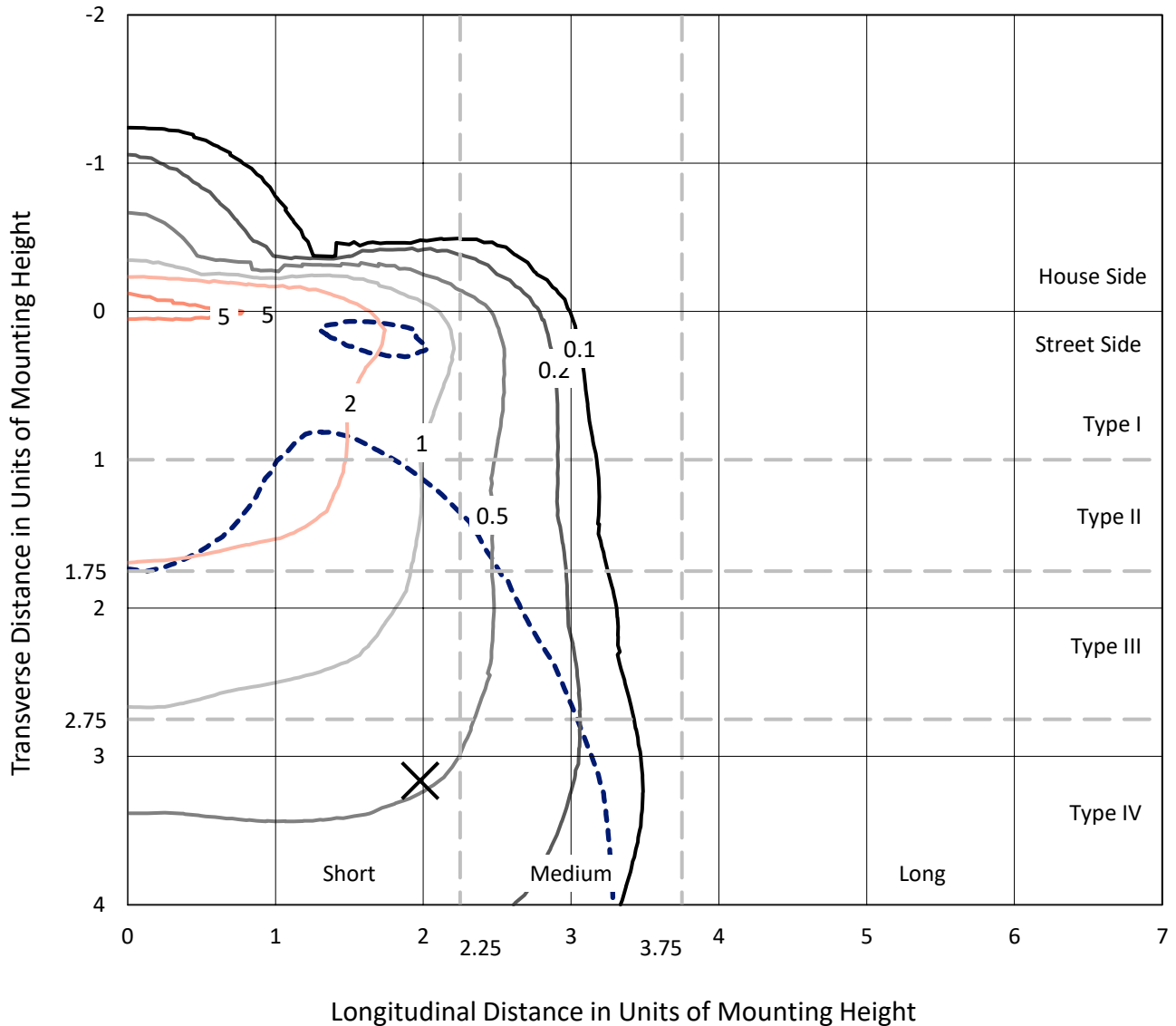
Lumens per Lamp: N/A
Luminaire Lumens: 7898.5 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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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Iso-Footcandle Lines of Horizontal Illumination

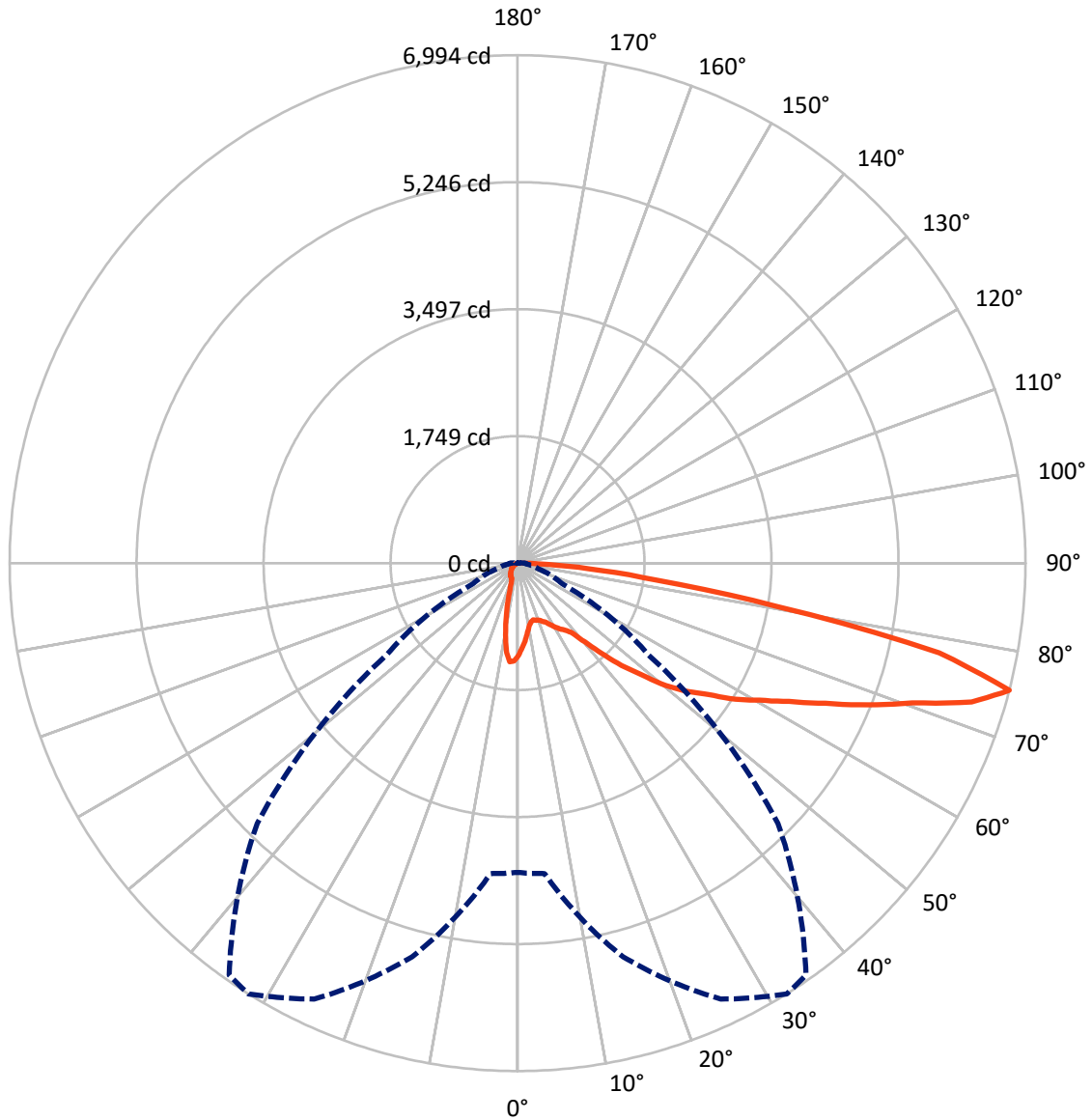
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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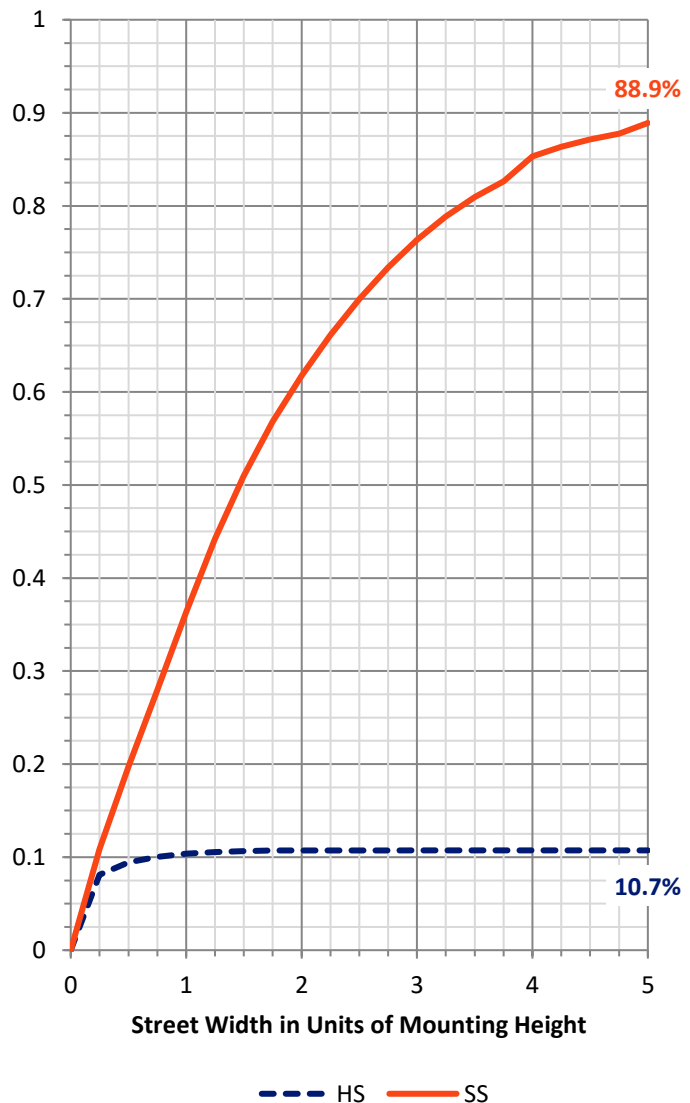
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	853.3	0.0	853.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7045.2	0.0	7045.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	7898.5	0.0	7898.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.4
10°-20°	254.4	3.2
20°-30°	381.0	4.8
30°-40°	584.8	7.4
40°-50°	1022.7	12.9
50°-60°	1598.6	20.2
60°-70°	2066.7	26.2
70°-80°	1683.3	21.3
80°-90°	194.9	2.5
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°	7898.5	100.0
0°-180°	7898.5	100.0



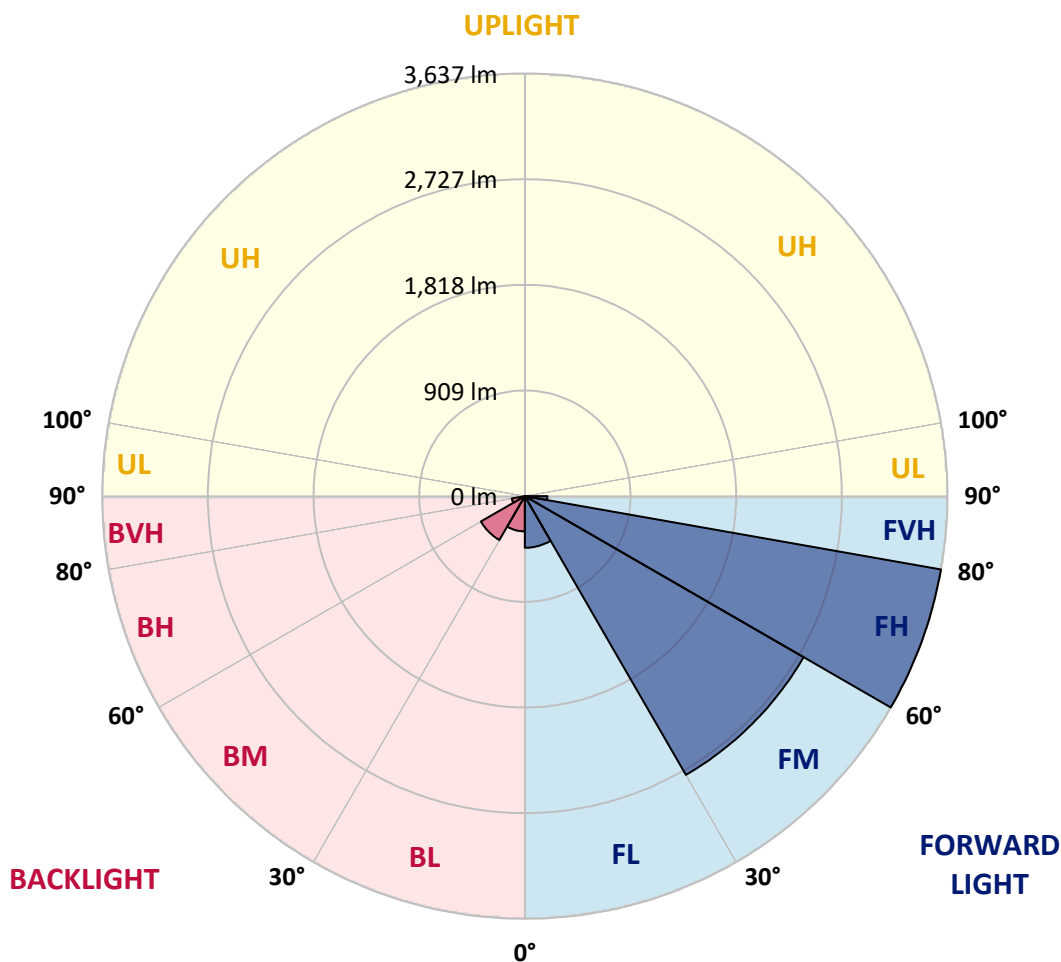
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.4	5.6			
FM (30°-60°)	2769.6	35.1			
FH (60°-80°)	3636.6	46.0			G2/5000
FVH (80°-90°)	194.7	2.5			G2/225
BL (0°-30°)	303.1	3.8	B1/500		
BM (30°-60°)	436.5	5.5	B1/1000		
BH (60°-80°)	113.5	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1143.8	1160.0	1158.0	1168.1	1170.1	1176.2	1190.3	1190.3	1230.8	1259.2	1277.4
5°	1040.5	1030.4	1034.5	1046.6	1077.0	1075.0	1109.4	1127.6	1176.2	1216.7	1259.2
7.5°	913.0	911.0	919.1	947.4	969.7	987.9	1024.3	1070.9	1135.7	1196.4	1271.3
10°	832.0	828.0	844.2	852.3	878.6	890.7	947.4	1020.3	1097.2	1184.3	1271.3
12.5°	813.8	799.6	807.7	805.7	830.0	836.1	890.7	979.8	1072.9	1180.2	1287.5
15°	823.9	813.8	805.7	805.7	811.8	815.8	874.5	953.5	1058.8	1186.3	1324.0
17.5°	856.3	850.2	826.0	801.7	828.0	828.0	864.4	947.4	1060.8	1204.5	1368.5
20°	894.8	888.7	846.2	817.9	836.1	856.3	894.8	961.6	1066.9	1218.7	1437.3
22.5°	937.3	937.3	878.6	846.2	870.5	872.5	941.3	1006.1	1091.1	1255.1	1481.9
25°	989.9	985.9	929.2	892.8	900.9	923.1	985.9	1054.7	1135.7	1305.7	1564.9
27.5°	1058.8	1052.7	985.9	949.4	959.6	983.9	1054.7	1123.5	1176.2	1326.0	1635.7
30°	1115.4	1109.4	1054.7	1000.0	1022.3	1044.6	1127.6	1188.3	1226.8	1364.4	1716.7
32.5°	1127.6	1117.5	1081.0	1056.7	1081.0	1123.5	1188.3	1251.1	1309.8	1461.6	1870.5
35°	1267.3	1230.8	1135.7	1097.2	1133.7	1147.8	1255.1	1366.5	1423.1	1538.5	2042.6
37.5°	1534.5	1500.1	1374.6	1267.3	1216.7	1232.9	1372.5	1510.2	1564.9	1682.3	2230.9
40°	1862.4	1805.8	1672.1	1528.4	1425.2	1404.9	1496.0	1698.5	1751.1	1862.4	2477.9
42.5°	2236.9	2182.3	1975.8	1805.8	1700.5	1674.2	1688.3	1917.1	1961.6	2028.4	2639.8
45°	2506.2	2477.9	2245.0	2093.2	2010.2	1981.9	1947.5	2156.0	2212.7	2234.9	2874.6
47.5°	2662.1	2641.8	2512.3	2409.0	2297.7	2267.3	2289.6	2488.0	2449.5	2467.7	3099.3
50°	2870.6	2817.9	2641.8	2674.2	2651.9	2643.9	2682.3	2769.4	2712.7	2660.0	3344.3
52.5°	3038.6	2945.5	2822.0	2900.9	2935.4	2965.7	3101.4	3166.1	2913.1	2832.1	3502.2
55°	3141.9	3052.8	3085.2	3158.0	3194.5	3334.2	3494.1	3445.5	3044.7	2969.8	3712.7
57.5°	3235.0	3241.0	3328.1	3350.4	3536.6	3560.9	3868.6	3710.7	3137.8	3095.3	3795.7
60°	3459.7	3437.4	3508.3	3652.0	3830.1	3965.8	4259.3	3888.9	3184.4	3160.1	3773.5
62.5°	3864.6	3726.9	3751.2	3933.4	4194.5	4342.3	4484.0	3969.8	3172.2	3170.2	3706.7
65°	4378.8	4220.9	4148.0	4318.0	4656.1	4864.6	4737.1	4060.9	3091.2	3147.9	3457.7
67.5°	4805.9	4807.9	4672.3	4767.4	5208.8	5253.3	4975.9	4042.7	2955.6	2971.8	2850.3
70°	5297.8	5364.6	5245.2	5542.8	5763.4	5791.8	5249.2	3892.9	2664.1	2241.0	1637.7
72.5°	5423.3	5457.8	5830.2	6287.8	6536.8	6544.8	5518.5	3392.9	1753.1	989.9	508.1
75°	4259.3	4291.7	5611.6	6623.8	6994.3	6923.4	5069.1	2202.5	682.2	289.5	121.5
77.5°	2376.6	2386.8	3484.0	5354.5	5933.5	5648.0	3550.8	858.3	275.3	166.0	56.7
80°	649.8	763.2	1291.6	2639.8	3623.7	3556.9	1690.4	279.4	178.1	129.6	26.3
82.5°	155.9	168.0	415.0	1168.1	1915.1	1998.1	504.1	141.7	123.5	107.3	14.2
85°	56.7	62.8	127.5	568.9	983.9	902.9	151.8	70.9	91.1	83.0	6.1
87.5°	20.2	20.2	40.5	186.2	287.5	216.6	50.6	24.3	46.6	50.6	2.0
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°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1279.4	1279.4	1307.8	1332.0	1340.1	1350.3	1340.1	1362.4	1360.4	1350.3	1354.3
5°	1281.4	1317.9	1342.2	1358.4	1366.5	1364.4	1368.5	1344.2	1330.0	1319.9	1309.8
7.5°	1291.6	1326.0	1370.5	1366.5	1344.2	1297.6	1261.2	1196.4	1133.7	1131.6	1121.5
10°	1326.0	1356.3	1382.7	1366.5	1285.5	1143.8	1028.4	941.3	862.4	826.0	830.0
12.5°	1350.3	1407.0	1394.8	1311.8	1143.8	957.5	787.5	660.0	589.1	522.3	522.3
15°	1400.9	1421.1	1417.1	1232.9	969.7	747.0	540.5	411.0	336.0	305.7	301.6
17.5°	1449.5	1471.7	1402.9	1113.4	797.6	502.0	328.0	255.1	245.0	240.9	242.9
20°	1510.2	1512.2	1390.8	994.0	599.2	317.8	234.8	228.8	230.8	228.8	228.8
22.5°	1575.0	1589.1	1348.2	826.0	398.8	230.8	218.6	220.7	220.7	220.7	226.7
25°	1660.0	1637.7	1281.4	666.0	261.1	212.6	212.6	214.6	214.6	214.6	216.6
27.5°	1716.7	1686.3	1196.4	479.8	204.5	200.4	204.5	204.5	208.5	208.5	208.5
30°	1834.1	1755.1	1089.1	309.7	184.2	190.3	194.3	198.4	200.4	204.5	206.5
32.5°	1925.2	1815.9	955.5	206.5	168.0	172.1	182.2	190.3	198.4	196.4	196.4
35°	2091.2	1915.1	832.0	164.0	153.9	153.9	164.0	178.1	190.3	194.3	194.3
37.5°	2281.5	1996.0	660.0	149.8	141.7	141.7	147.8	164.0	180.2	188.3	184.2
40°	2439.4	2089.2	487.9	139.7	131.6	131.6	135.6	147.8	166.0	180.2	182.2
42.5°	2550.7	2158.0	330.0	129.6	123.5	121.5	127.5	133.6	147.8	168.0	172.1
45°	2651.9	2194.4	204.5	119.4	115.4	115.4	115.4	121.5	131.6	149.8	153.9
47.5°	2832.1	2234.9	147.8	111.3	105.3	107.3	109.3	111.3	119.4	123.5	125.5
50°	2983.9	2265.3	121.5	103.2	99.2	101.2	101.2	101.2	105.3	99.2	99.2
52.5°	3099.3	2234.9	103.2	95.1	91.1	93.1	91.1	91.1	87.0	79.0	79.0
55°	3184.4	2180.3	83.0	87.0	87.0	87.0	83.0	76.9	68.8	62.8	62.8
57.5°	3206.6	2087.1	64.8	72.9	79.0	79.0	70.9	62.8	52.6	46.6	44.5
60°	3172.2	1884.7	48.6	52.6	60.7	62.8	56.7	46.6	36.4	30.4	30.4
62.5°	3048.7	1724.8	38.5	34.4	44.5	46.6	40.5	30.4	20.2	14.2	12.1
65°	2813.9	1477.8	28.3	24.3	30.4	32.4	26.3	14.2	6.1	2.0	0.0
67.5°	2257.2	1113.4	18.2	16.2	20.2	20.2	12.1	4.0	0.0	0.0	0.0
70°	1249.0	625.5	12.1	8.1	10.1	6.1	2.0	0.0	0.0	0.0	0.0
72.5°	360.3	178.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	97.2	42.5	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.5	16.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	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)