

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: P676570

Luminaire Tested: **CCW-SA-2C-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676570
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

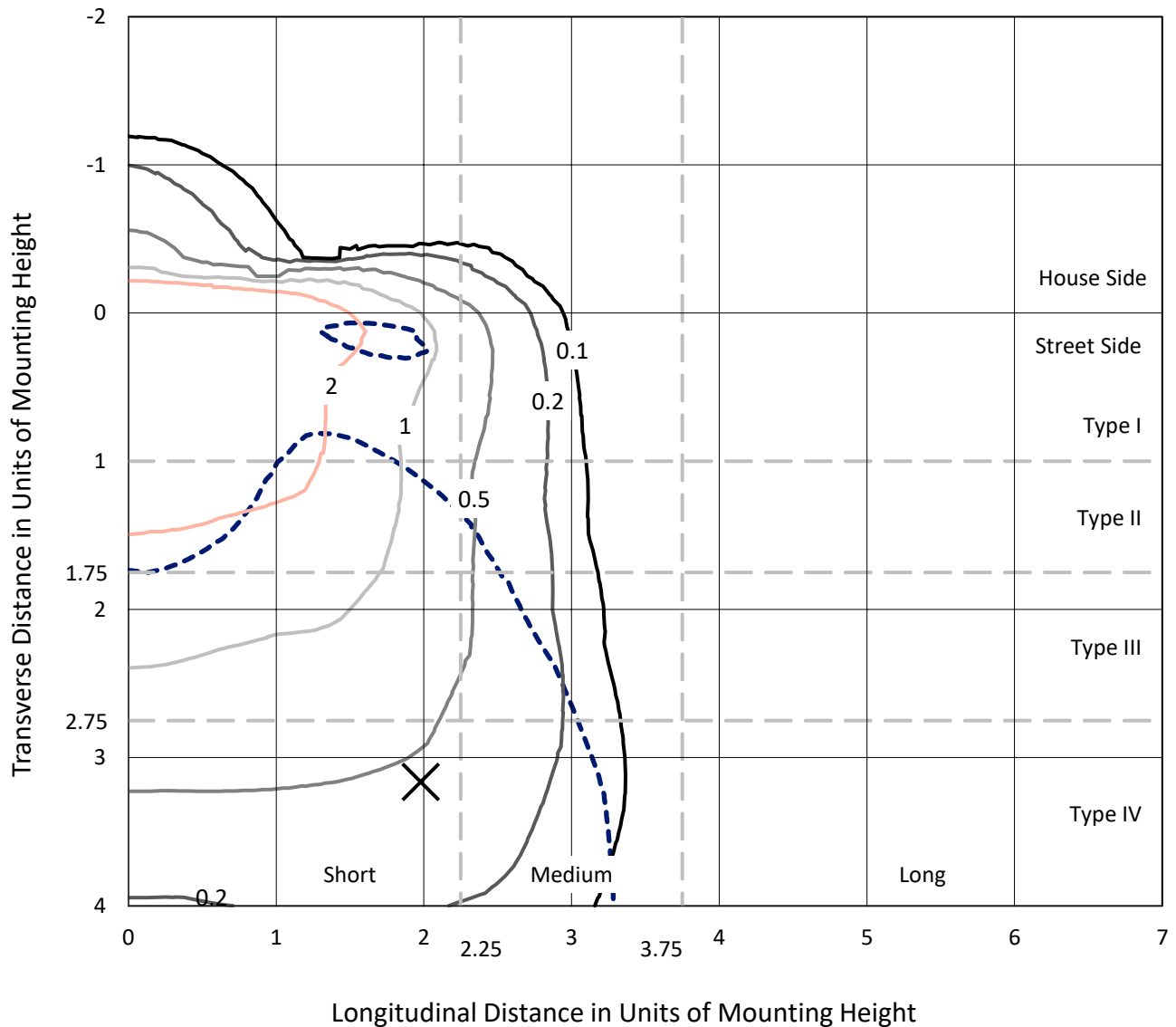
Lumens per Lamp: N/A
Luminaire Lumens: 6492.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): 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

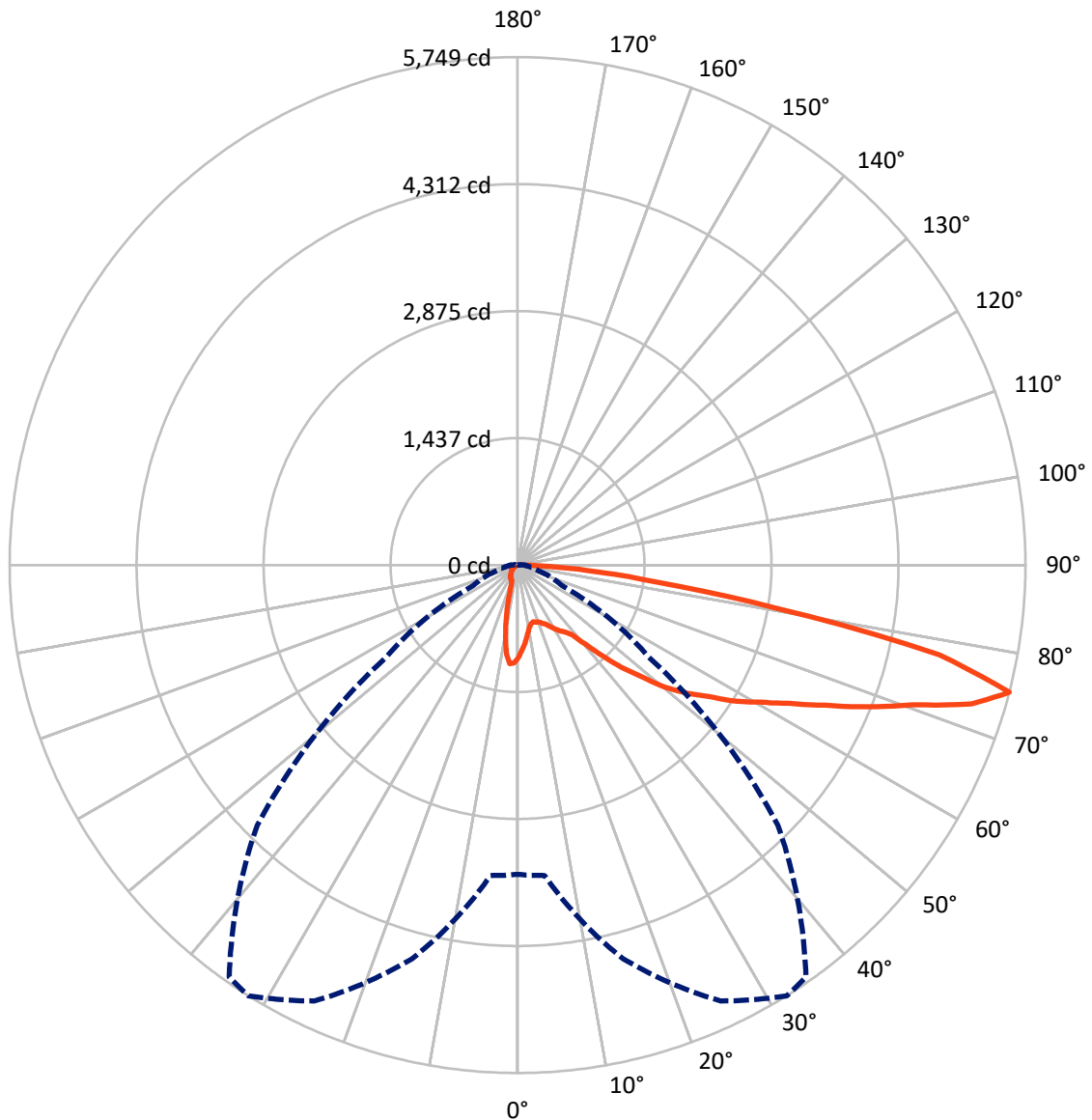
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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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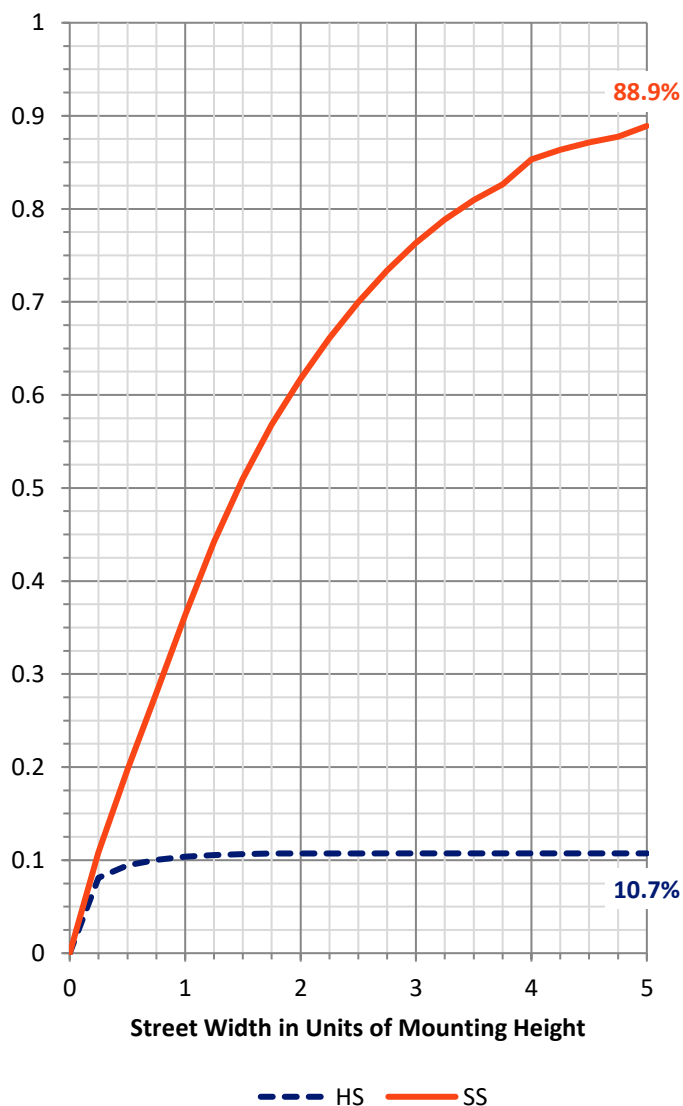
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.4	0.0	701.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5790.9	0.0	5790.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	6492.2	0.0	6492.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.4
10°-20°	209.1	3.2
20°-30°	313.1	4.8
30°-40°	480.7	7.4
40°-50°	840.6	12.9
50°-60°	1314.0	20.2
60°-70°	1698.8	26.2
70°-80°	1383.6	21.3
80°-90°	160.2	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°	6492.2	100.0
0°-180°	6492.2	100.0



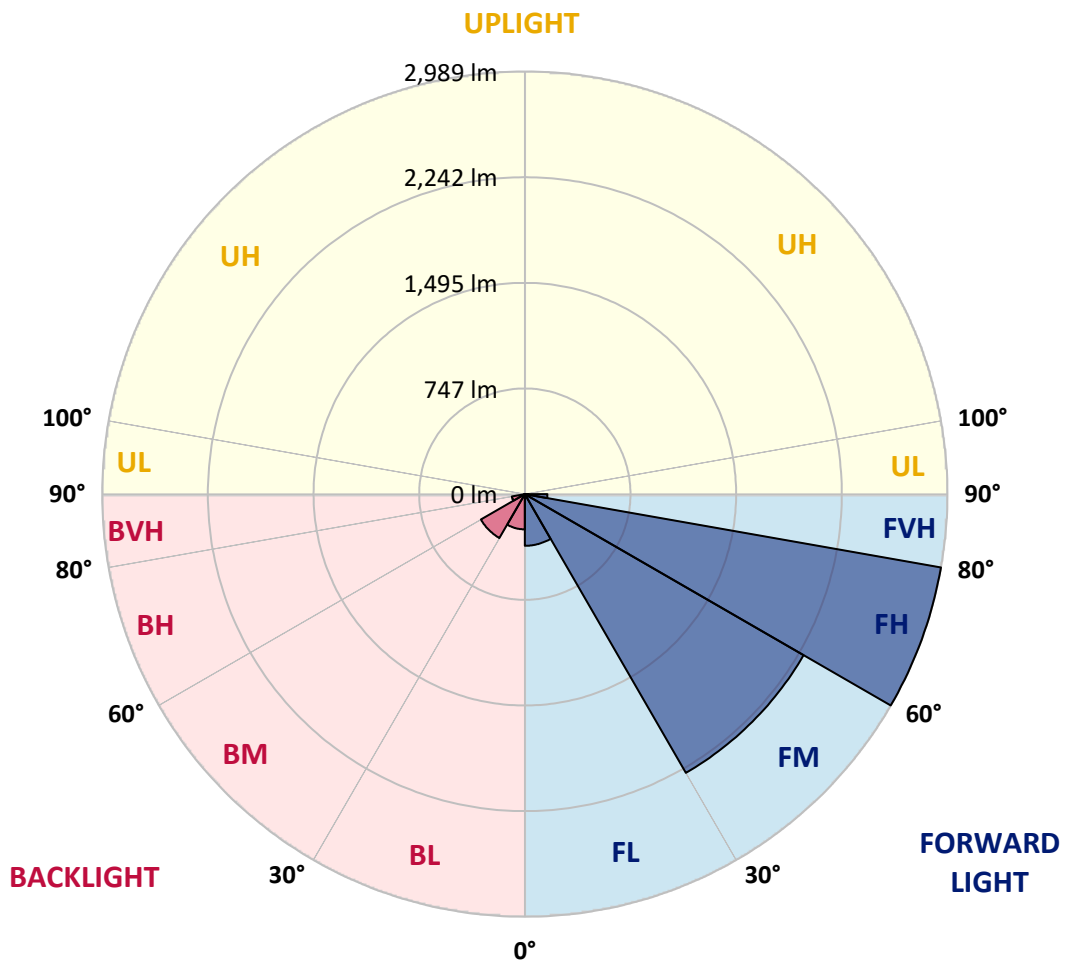
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.3	5.6			
FM (30°-60°)	2276.5	35.1			
FH (60°-80°)	2989.1	46.0			G2/5000
FVH (80°-90°)	160.0	2.5			G2/225
BL (0°-30°)	249.1	3.8	B1/500		
BM (30°-60°)	358.8	5.5	B1/1000		
BH (60°-80°)	93.3	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	940.1	953.4	951.8	960.1	961.8	966.8	978.4	978.4	1011.7	1035.0	1050.0
5°	855.3	847.0	850.3	860.3	885.2	883.6	911.9	926.8	966.8	1000.0	1035.0
7.5°	750.4	748.8	755.4	778.7	797.0	812.0	842.0	880.2	933.5	983.4	1045.0
10°	683.9	680.6	693.9	700.5	722.2	732.1	778.7	838.6	901.9	973.4	1045.0
12.5°	668.9	657.3	663.9	662.3	682.2	687.2	732.1	805.4	881.9	970.1	1058.3
15°	677.2	668.9	662.3	662.3	667.2	670.6	718.8	783.7	870.3	975.1	1088.2
17.5°	703.9	698.9	678.9	658.9	680.6	680.6	710.5	778.7	871.9	990.1	1124.8
20°	735.5	730.5	695.5	672.2	687.2	703.9	735.5	790.4	876.9	1001.7	1181.4
22.5°	770.4	770.4	722.2	695.5	715.5	717.2	773.7	827.0	896.9	1031.7	1218.0
25°	813.7	810.3	763.8	733.8	740.5	758.8	810.3	866.9	933.5	1073.3	1286.2
27.5°	870.3	865.3	810.3	780.4	788.7	808.7	866.9	923.5	966.8	1089.9	1344.5
30°	916.8	911.9	866.9	822.0	840.3	858.6	926.8	976.7	1008.4	1121.5	1411.0
32.5°	926.8	918.5	888.6	868.6	888.6	923.5	976.7	1028.3	1076.6	1201.4	1537.5
35°	1041.6	1011.7	933.5	901.9	931.8	943.5	1031.7	1123.2	1169.8	1264.6	1678.9
37.5°	1261.3	1233.0	1129.8	1041.6	1000.0	1013.4	1128.2	1241.3	1286.2	1382.8	1833.7
40°	1530.8	1484.3	1374.4	1256.3	1171.4	1154.8	1229.7	1396.1	1439.3	1530.8	2036.7
42.5°	1838.7	1793.8	1624.0	1484.3	1397.7	1376.1	1387.7	1575.8	1612.4	1667.3	2169.8
45°	2060.0	2036.7	1845.3	1720.5	1652.3	1629.0	1600.7	1772.1	1818.7	1837.0	2362.8
47.5°	2188.1	2171.5	2065.0	1980.1	1888.6	1863.6	1881.9	2045.0	2013.4	2028.4	2547.5
50°	2359.5	2316.2	2171.5	2198.1	2179.8	2173.1	2204.7	2276.3	2229.7	2186.4	2748.9
52.5°	2497.6	2421.1	2319.6	2384.5	2412.7	2437.7	2549.2	2602.4	2394.4	2327.9	2878.7
55°	2582.5	2509.3	2535.9	2595.8	2625.7	2740.5	2872.0	2832.1	2502.6	2441.0	3051.7
57.5°	2659.0	2664.0	2735.6	2753.9	2906.9	2926.9	3179.8	3050.0	2579.1	2544.2	3119.9
60°	2843.7	2825.4	2883.6	3001.8	3148.2	3259.7	3501.0	3196.5	2617.4	2597.4	3101.6
62.5°	3176.5	3063.4	3083.3	3233.1	3447.7	3569.2	3685.7	3263.0	2607.4	2605.8	3046.7
65°	3599.1	3469.4	3409.5	3549.2	3827.1	3998.5	3893.7	3337.9	2540.9	2587.5	2842.0
67.5°	3950.2	3951.9	3840.4	3918.6	4281.4	4318.0	4090.0	3322.9	2429.4	2442.7	2342.9
70°	4354.6	4409.5	4311.3	4555.9	4737.3	4760.6	4314.7	3199.8	2189.8	1842.0	1346.1
72.5°	4457.8	4486.0	4792.2	5168.3	5372.9	5379.6	4536.0	2788.8	1441.0	813.7	417.7
75°	3501.0	3527.6	4612.5	5444.5	5749.0	5690.7	4166.6	1810.4	560.8	237.9	99.8
77.5°	1953.5	1961.8	2863.7	4401.2	4877.1	4642.5	2918.6	705.5	226.3	136.4	46.6
80°	534.1	627.3	1061.6	2169.8	2978.5	2923.6	1389.4	229.6	146.4	106.5	21.6
82.5°	128.1	138.1	341.1	960.1	1574.1	1642.3	414.3	116.5	101.5	88.2	11.6
85°	46.6	51.6	104.8	467.6	808.7	742.1	124.8	58.2	74.9	68.2	5.0
87.5°	16.6	16.6	33.3	153.1	236.3	178.0	41.6	20.0	38.3	41.6	1.7
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°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	1051.6	1051.6	1074.9	1094.9	1101.5	1109.9	1101.5	1119.8	1118.2	1109.9	1113.2
5°	1053.3	1083.2	1103.2	1116.5	1123.2	1121.5	1124.8	1104.9	1093.2	1084.9	1076.6
7.5°	1061.6	1089.9	1126.5	1123.2	1104.9	1066.6	1036.6	983.4	931.8	930.2	921.8
10°	1089.9	1114.9	1136.5	1123.2	1056.6	940.1	845.3	773.7	708.8	678.9	682.2
12.5°	1109.9	1156.5	1146.5	1078.2	940.1	787.1	647.3	542.5	484.2	429.3	429.3
15°	1151.5	1168.1	1164.8	1013.4	797.0	614.0	444.3	337.8	276.2	251.3	247.9
17.5°	1191.4	1209.7	1153.1	915.2	655.6	412.7	269.6	209.7	201.3	198.0	199.7
20°	1241.3	1243.0	1143.1	817.0	492.5	261.2	193.0	188.0	189.7	188.0	188.0
22.5°	1294.6	1306.2	1108.2	678.9	327.8	189.7	179.7	181.4	181.4	181.4	186.4
25°	1364.4	1346.1	1053.3	547.4	214.7	174.7	174.7	176.4	176.4	176.4	178.0
27.5°	1411.0	1386.1	983.4	394.4	168.1	164.7	168.1	168.1	171.4	171.4	171.4
30°	1507.5	1442.7	895.2	254.6	151.4	156.4	159.7	163.1	164.7	168.1	169.7
32.5°	1582.4	1492.6	785.4	169.7	138.1	141.4	149.8	156.4	163.1	161.4	161.4
35°	1718.9	1574.1	683.9	134.8	126.5	126.5	134.8	146.4	156.4	159.7	159.7
37.5°	1875.3	1640.7	542.5	123.1	116.5	116.5	121.5	134.8	148.1	154.7	151.4
40°	2005.1	1717.2	401.0	114.8	108.2	108.2	111.5	121.5	136.4	148.1	149.8
42.5°	2096.6	1773.8	271.2	106.5	101.5	99.8	104.8	109.8	121.5	138.1	141.4
45°	2179.8	1803.7	168.1	98.2	94.8	94.8	94.8	99.8	108.2	123.1	126.5
47.5°	2327.9	1837.0	121.5	91.5	86.5	88.2	89.9	91.5	98.2	101.5	103.2
50°	2452.7	1862.0	99.8	84.9	81.5	83.2	83.2	83.2	86.5	81.5	81.5
52.5°	2547.5	1837.0	84.9	78.2	74.9	76.5	74.9	74.9	71.6	64.9	64.9
55°	2617.4	1792.1	68.2	71.6	71.6	71.6	68.2	63.2	56.6	51.6	51.6
57.5°	2635.7	1715.5	53.2	59.9	64.9	64.9	58.2	51.6	43.3	38.3	36.6
60°	2607.4	1549.1	39.9	43.3	49.9	51.6	46.6	38.3	30.0	25.0	25.0
62.5°	2505.9	1417.7	31.6	28.3	36.6	38.3	33.3	25.0	16.6	11.6	10.0
65°	2312.9	1214.7	23.3	20.0	25.0	26.6	21.6	11.6	5.0	1.7	0.0
67.5°	1855.3	915.2	15.0	13.3	16.6	16.6	10.0	3.3	0.0	0.0	0.0
70°	1026.7	514.2	10.0	6.7	8.3	5.0	1.7	0.0	0.0	0.0	0.0
72.5°	296.2	146.4	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	79.9	34.9	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	34.9	13.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)