

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: P676589

Luminaire Tested: **CCW-SA-1F-760-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676589
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-760-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

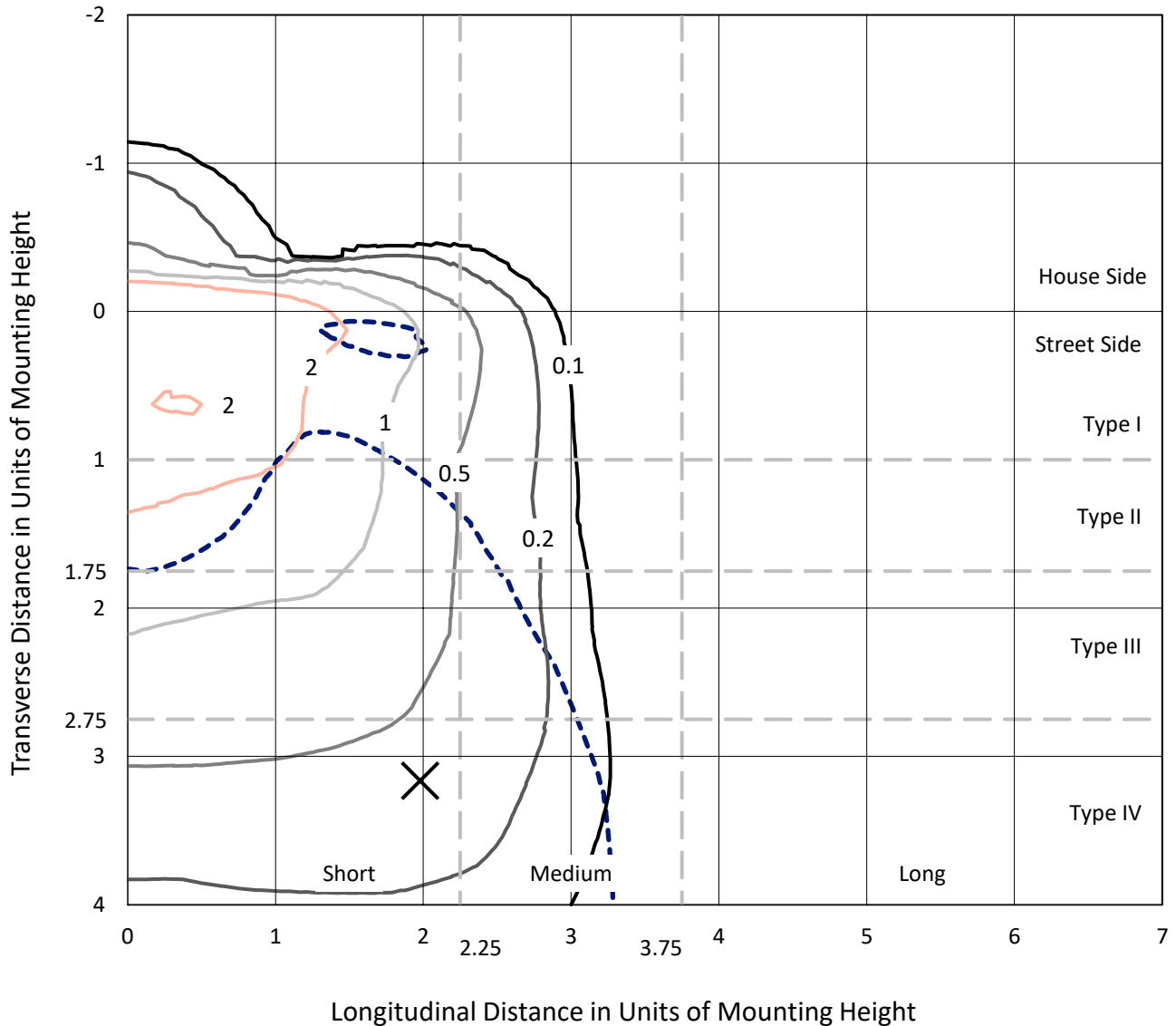
Lumens per Lamp: N/A
Luminaire Lumens: 5507 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

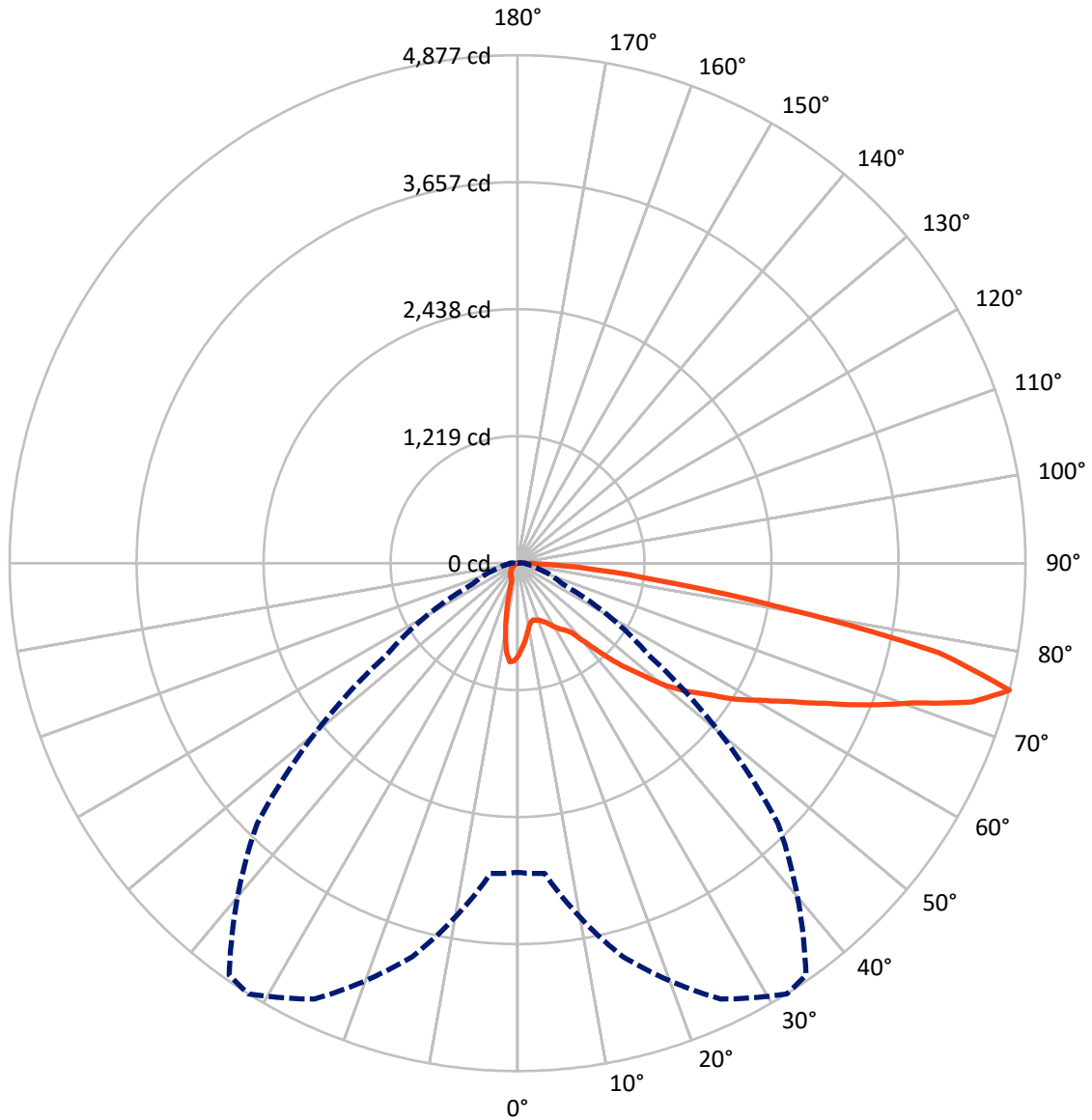
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 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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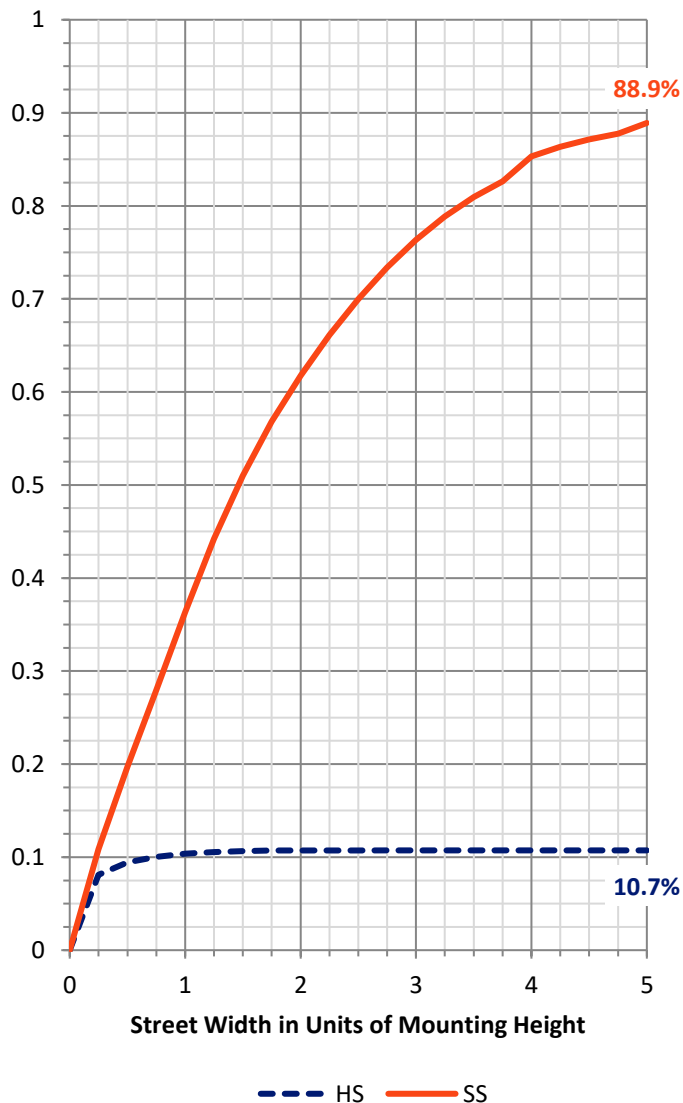
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.9	0.0	594.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4912.0	0.0	4912.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	5507.0	0.0	5507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.4
10°-20°	177.4	3.2
20°-30°	265.6	4.8
30°-40°	407.7	7.4
40°-50°	713.0	12.9
50°-60°	1114.6	20.2
60°-70°	1441.0	26.2
70°-80°	1173.6	21.3
80°-90°	135.9	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°	5507.0	100.0
0°-180°	5507.0	100.0



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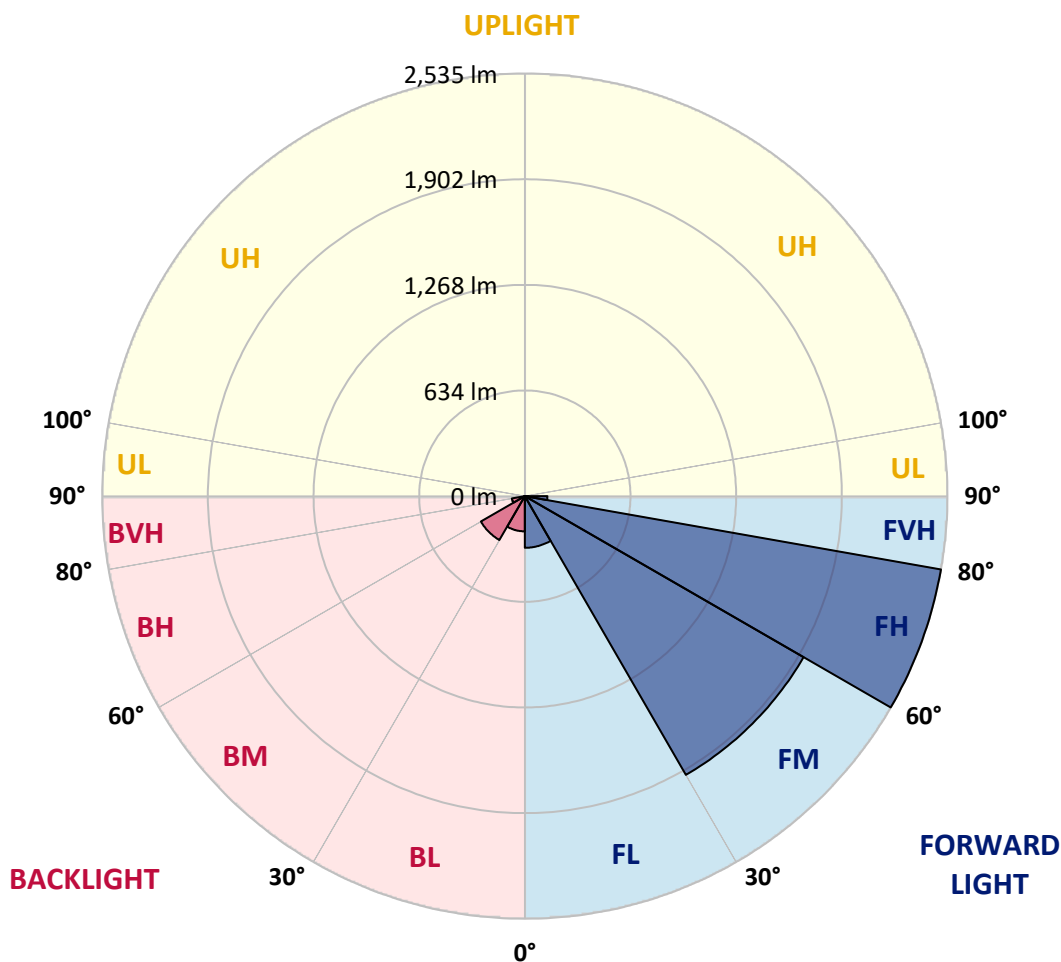
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.8	5.6			
FM (30°-60°)	1931.0	35.1			
FH (60°-80°)	2535.5	46.0			G2/5000
FVH (80°-90°)	135.8	2.5			G2/225
BL (0°-30°)	211.3	3.8	B1/500		
BM (30°-60°)	304.4	5.5	B1/1000		
BH (60°-80°)	79.1	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°	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2
2.5°	797.5	808.8	807.3	814.4	815.8	820.0	829.9	829.9	858.2	877.9	890.6
5°	725.5	718.4	721.2	729.7	750.9	749.5	773.5	786.2	820.0	848.3	877.9
7.5°	636.6	635.1	640.8	660.6	676.1	688.8	714.2	746.7	791.8	834.2	886.4
10°	580.1	577.3	588.6	594.2	612.6	621.0	660.6	711.4	765.0	825.7	886.4
12.5°	567.4	557.5	563.2	561.8	578.7	582.9	621.0	683.1	748.1	822.9	897.7
15°	574.5	567.4	561.8	561.8	566.0	568.8	609.7	664.8	738.2	827.1	923.1
17.5°	597.0	592.8	575.9	558.9	577.3	577.3	602.7	660.6	739.6	839.8	954.1
20°	623.9	619.6	590.0	570.2	582.9	597.0	623.9	670.4	743.8	849.7	1002.1
22.5°	653.5	653.5	612.6	590.0	606.9	608.3	656.3	701.5	760.8	875.1	1033.2
25°	690.2	687.4	647.8	622.4	628.1	643.6	687.4	735.4	791.8	910.4	1091.0
27.5°	738.2	733.9	687.4	662.0	669.0	686.0	735.4	783.3	820.0	924.5	1140.4
30°	777.7	773.5	735.4	697.3	712.8	728.3	786.2	828.5	855.3	951.3	1196.9
32.5°	786.2	779.1	753.7	736.8	753.7	783.3	828.5	872.3	913.2	1019.1	1304.2
35°	883.6	858.2	791.8	765.0	790.4	800.3	875.1	952.7	992.2	1072.7	1424.1
37.5°	1069.9	1045.9	958.4	883.6	848.3	859.6	957.0	1052.9	1091.0	1172.9	1555.4
40°	1298.5	1259.0	1165.8	1065.6	993.7	979.5	1043.1	1184.2	1220.9	1298.5	1727.6
42.5°	1559.6	1521.5	1377.6	1259.0	1185.6	1167.3	1177.1	1336.6	1367.7	1414.3	1840.5
45°	1747.4	1727.6	1565.3	1459.4	1401.6	1381.8	1357.8	1503.2	1542.7	1558.2	2004.2
47.5°	1856.0	1841.9	1751.6	1679.6	1602.0	1580.8	1596.3	1734.7	1707.8	1720.5	2160.9
50°	2001.4	1964.7	1841.9	1864.5	1849.0	1843.3	1870.2	1930.8	1891.3	1854.6	2331.7
52.5°	2118.6	2053.6	1967.5	2022.6	2046.6	2067.8	2162.3	2207.5	2031.1	1974.6	2441.8
55°	2190.6	2128.4	2151.0	2201.8	2227.2	2324.6	2436.1	2402.3	2122.8	2070.6	2588.6
57.5°	2255.5	2259.7	2320.4	2335.9	2465.8	2482.7	2697.3	2587.2	2187.7	2158.1	2646.4
60°	2412.1	2396.6	2446.0	2546.2	2670.4	2765.0	2969.7	2711.4	2220.2	2203.3	2630.9
62.5°	2694.4	2598.5	2615.4	2742.4	2924.5	3027.5	3126.3	2767.8	2211.7	2210.3	2584.3
65°	3052.9	2942.8	2892.0	3010.6	3246.3	3391.7	3302.8	2831.3	2155.3	2194.8	2410.7
67.5°	3350.8	3352.2	3257.6	3323.9	3631.6	3662.7	3469.3	2818.6	2060.7	2072.0	1987.3
70°	3693.7	3740.3	3657.0	3864.5	4018.4	4038.1	3659.9	2714.2	1857.5	1562.5	1141.9
72.5°	3781.2	3805.2	4064.9	4383.9	4557.5	4563.2	3847.6	2365.6	1222.3	690.2	354.3
75°	2969.7	2992.2	3912.5	4618.2	4876.5	4827.1	3534.2	1535.6	475.7	201.8	84.7
77.5°	1657.0	1664.1	2429.1	3733.3	4136.9	3937.9	2475.7	598.4	192.0	115.7	39.5
80°	453.1	532.1	900.5	1840.5	2526.5	2479.9	1178.6	194.8	124.2	90.3	18.3
82.5°	108.7	117.1	289.3	814.4	1335.2	1393.1	351.4	98.8	86.1	74.8	9.9
85°	39.5	43.8	88.9	396.6	686.0	629.5	105.9	49.4	63.5	57.9	4.2
87.5°	14.1	14.1	28.2	129.9	200.4	151.0	35.3	16.9	32.5	35.3	1.4
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°	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2	889.2
2.5°	892.0	892.0	911.8	928.7	934.4	941.4	934.4	949.9	948.5	941.4	944.3
5°	893.4	918.8	935.8	947.1	952.7	951.3	954.1	937.2	927.3	920.3	913.2
7.5°	900.5	924.5	955.5	952.7	937.2	904.7	879.3	834.2	790.4	789.0	781.9
10°	924.5	945.7	964.0	952.7	896.3	797.5	717.0	656.3	601.3	575.9	578.7
12.5°	941.4	980.9	972.5	914.6	797.5	667.6	549.0	460.1	410.7	364.2	364.2
15°	976.7	990.8	988.0	859.6	676.1	520.8	376.9	286.5	234.3	213.1	210.3
17.5°	1010.6	1026.1	978.1	776.3	556.1	350.0	228.7	177.8	170.8	168.0	169.4
20°	1052.9	1054.3	969.7	693.0	417.8	221.6	163.7	159.5	160.9	159.5	159.5
22.5°	1098.1	1108.0	940.0	575.9	278.1	160.9	152.4	153.8	153.8	153.8	158.1
25°	1157.4	1141.9	893.4	464.4	182.1	148.2	148.2	149.6	149.6	149.6	151.0
27.5°	1196.9	1175.7	834.2	334.5	142.6	139.7	142.6	142.6	145.4	145.4	145.4
30°	1278.8	1223.7	759.4	215.9	128.4	132.7	135.5	138.3	139.7	142.6	144.0
32.5°	1342.3	1266.1	666.2	144.0	117.1	120.0	127.0	132.7	138.3	136.9	136.9
35°	1458.0	1335.2	580.1	114.3	107.3	107.3	114.3	124.2	132.7	135.5	135.5
37.5°	1590.7	1391.7	460.1	104.4	98.8	98.8	103.0	114.3	125.6	131.3	128.4
40°	1700.8	1456.6	340.2	97.4	91.7	91.7	94.6	103.0	115.7	125.6	127.0
42.5°	1778.4	1504.6	230.1	90.3	86.1	84.7	88.9	93.2	103.0	117.1	120.0
45°	1849.0	1530.0	142.6	83.3	80.5	80.5	80.5	84.7	91.7	104.4	107.3
47.5°	1974.6	1558.2	103.0	77.6	73.4	74.8	76.2	77.6	83.3	86.1	87.5
50°	2080.5	1579.4	84.7	72.0	69.2	70.6	70.6	70.6	73.4	69.2	69.2
52.5°	2160.9	1558.2	72.0	66.3	63.5	64.9	63.5	63.5	60.7	55.0	55.0
55°	2220.2	1520.1	57.9	60.7	60.7	60.7	57.9	53.6	48.0	43.8	43.8
57.5°	2235.7	1455.2	45.2	50.8	55.0	55.0	49.4	43.8	36.7	32.5	31.1
60°	2211.7	1314.0	33.9	36.7	42.3	43.8	39.5	32.5	25.4	21.2	21.2
62.5°	2125.6	1202.5	26.8	24.0	31.1	32.5	28.2	21.2	14.1	9.9	8.5
65°	1961.9	1030.3	19.8	16.9	21.2	22.6	18.3	9.9	4.2	1.4	0.0
67.5°	1573.8	776.3	12.7	11.3	14.1	14.1	8.5	2.8	0.0	0.0	0.0
70°	870.9	436.1	8.5	5.6	7.1	4.2	1.4	0.0	0.0	0.0	0.0
72.5°	251.2	124.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	67.7	29.6	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.6	11.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	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)