

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: P676711

Luminaire Tested: **CCW-SA-1F-740-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676711
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-740-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

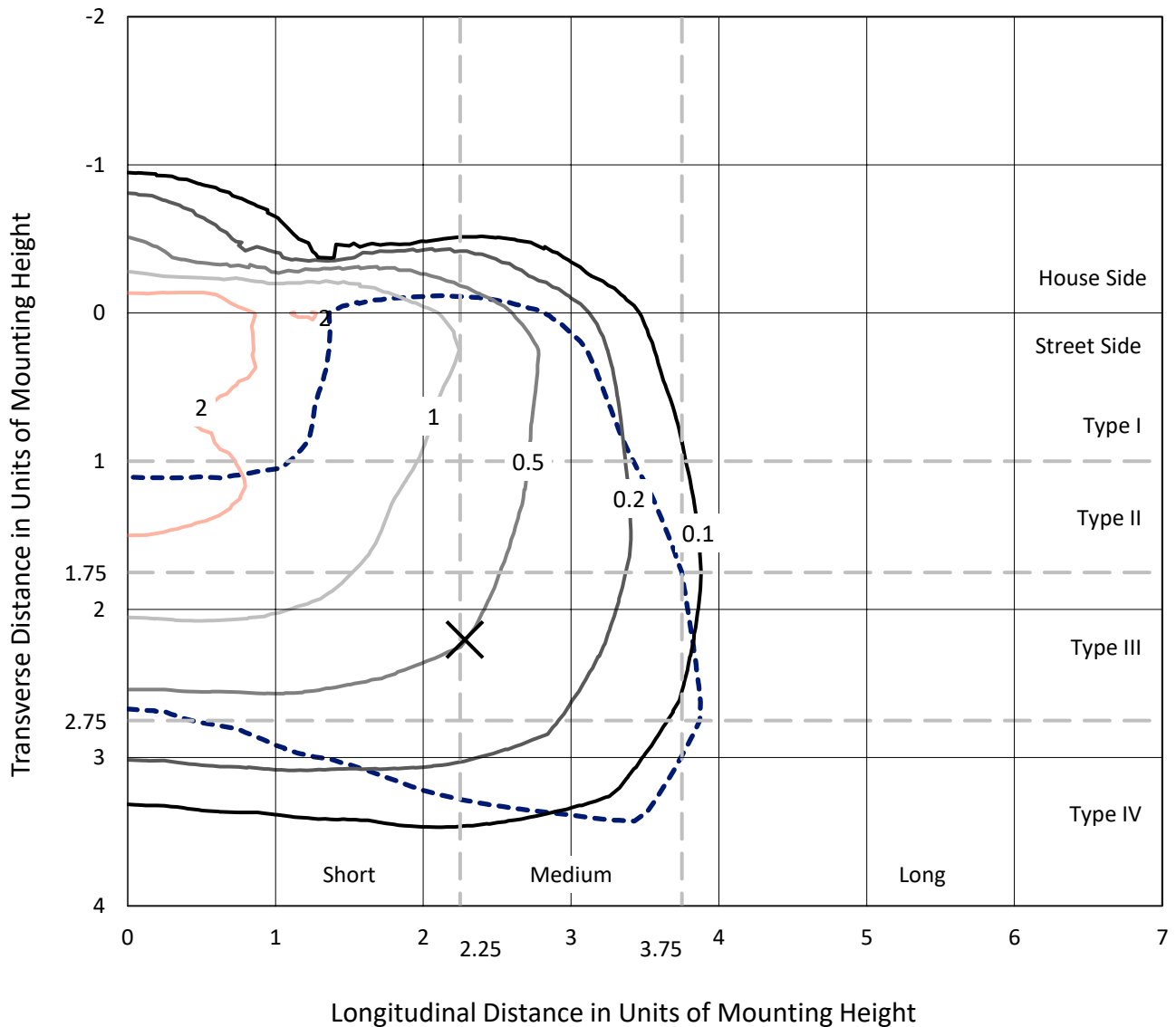
Lumens per Lamp: N/A
Luminaire Lumens: 5409.4 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

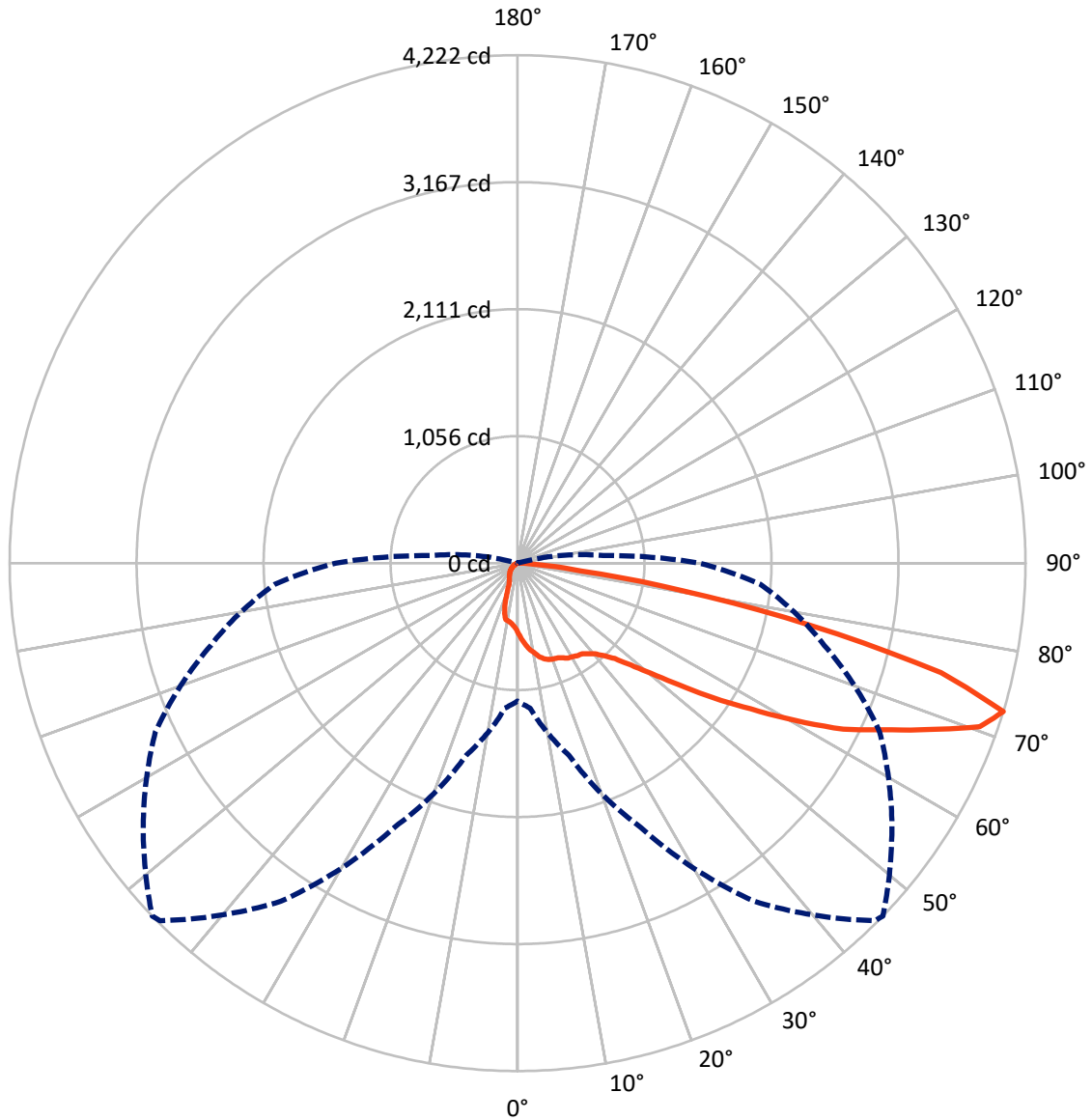
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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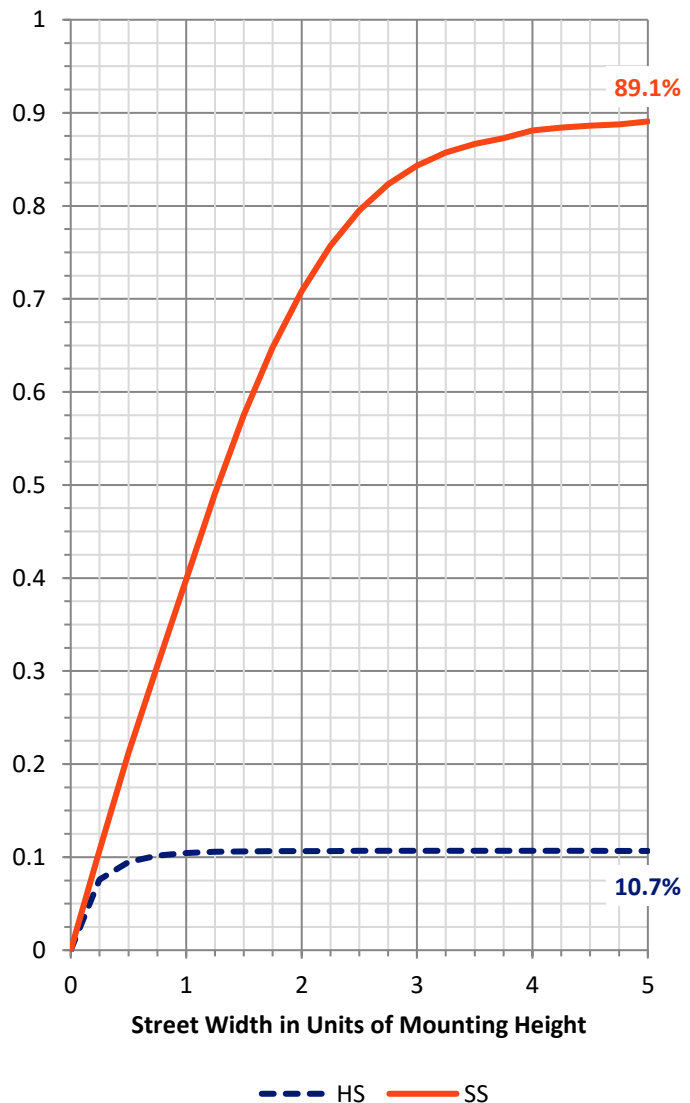
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.4	0.0	582.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4827.0	0.0	4827.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	5409.4	0.0	5409.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	174.7	3.2
20°-30°	273.5	5.1
30°-40°	383.0	7.1
40°-50°	631.6	11.7
50°-60°	1135.2	21.0
60°-70°	1645.3	30.4
70°-80°	1026.8	19.0
80°-90°	81.4	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°	5409.4	100.0
0°-180°	5409.4	100.0



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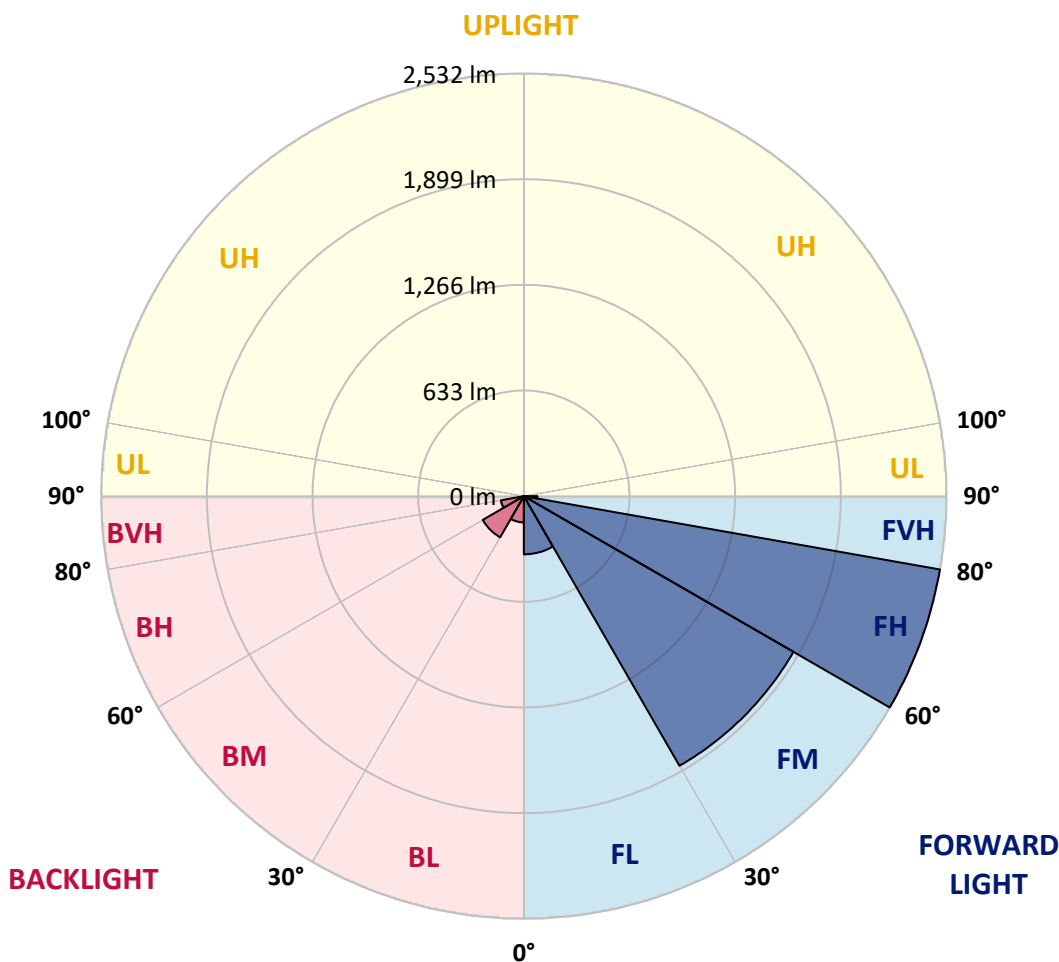
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.7	6.4			
FM (30°-60°)	1865.3	34.5			
FH (60°-80°)	2532.1	46.8			G2/5000
FVH (80°-90°)	81.0	1.5			G1/100
BL (0°-30°)	157.4	2.9	B1/500		
BM (30°-60°)	284.5	5.3	B1/1000		
BH (60°-80°)	140.0	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	647.1	644.4	648.5	647.1	630.6	633.3	631.9	620.9	601.6	590.6	583.7
5°	721.6	728.5	723.0	710.6	700.9	681.6	678.9	660.9	630.6	611.3	590.6
7.5°	798.9	798.9	787.9	768.5	747.9	727.2	724.4	694.0	667.8	634.7	605.7
10°	856.9	850.0	841.7	821.0	797.5	769.9	756.1	734.1	705.1	665.1	627.8
12.5°	907.9	896.9	883.1	852.7	825.1	794.8	797.5	761.6	742.3	706.5	651.3
15°	936.9	927.2	914.8	887.2	844.4	830.6	825.1	803.0	768.5	732.7	680.2
17.5°	943.8	936.9	920.3	884.5	861.0	844.4	843.1	816.8	801.7	771.3	713.4
20°	930.0	917.6	905.1	881.7	859.6	854.1	850.0	850.0	830.6	790.6	734.1
22.5°	906.5	892.7	885.8	872.0	854.1	852.7	855.5	852.7	837.5	811.3	756.1
25°	888.6	881.7	870.7	866.5	855.5	876.2	872.0	867.9	863.8	833.4	790.6
27.5°	894.1	892.7	884.5	867.9	859.6	881.7	894.1	895.5	894.1	863.8	822.4
30°	896.9	890.0	881.7	877.6	880.3	902.4	902.4	932.7	920.3	890.0	854.1
32.5°	928.6	924.5	896.9	887.2	888.6	914.8	916.2	946.5	942.4	921.7	881.7
35°	996.2	968.6	928.6	901.0	901.0	935.5	924.5	968.6	979.7	946.5	901.0
37.5°	1096.9	1076.2	1004.5	942.4	918.9	943.8	954.8	979.7	1012.8	983.8	939.6
40°	1297.0	1292.9	1190.8	1056.9	964.5	986.6	990.7	1029.3	1051.4	1011.4	999.0
42.5°	1589.5	1568.8	1473.6	1262.5	1047.3	1037.6	1052.8	1077.6	1130.1	1096.9	1066.6
45°	1875.1	1865.5	1770.3	1534.3	1197.7	1139.7	1131.4	1175.6	1252.9	1217.0	1193.5
47.5°	2082.1	2062.8	2009.0	1810.3	1418.4	1259.8	1265.3	1309.4	1407.4	1379.8	1386.7
50°	2240.8	2231.1	2174.6	2065.6	1697.2	1448.8	1437.8	1481.9	1614.4	1632.3	1651.6
52.5°	2414.6	2432.6	2356.7	2264.3	2026.9	1702.7	1677.8	1693.0	1864.1	1905.5	1959.3
55°	2581.6	2610.6	2534.7	2522.3	2371.9	1984.2	1980.0	1944.1	2164.9	2170.4	2199.4
57.5°	2690.6	2680.9	2675.4	2743.0	2716.8	2307.0	2286.3	2250.5	2450.5	2414.6	2501.6
60°	2698.9	2726.5	2818.9	2985.9	3032.8	2686.5	2656.1	2558.1	2697.5	2612.0	2777.5
62.5°	2761.0	2783.1	2954.2	3184.6	3245.3	3020.4	3041.1	2792.7	2908.6	2841.0	3083.9
65°	2603.7	2672.7	3016.2	3339.1	3524.0	3358.4	3337.7	3094.9	3125.2	3061.8	3386.0
67.5°	2461.6	2487.8	2846.5	3386.0	3744.8	3697.9	3689.6	3362.6	3348.8	3231.5	3471.6
70°	2000.7	2032.4	2387.1	3145.9	3819.3	4093.9	4074.5	3737.9	3500.6	3139.0	3032.8
72.5°	1146.6	1210.1	1654.4	2422.9	3431.6	4204.2	4222.2	3798.6	3321.2	2639.6	2025.5
75°	375.3	393.2	687.1	1372.9	2566.4	3667.5	3635.8	3264.6	2679.6	1742.7	914.8
77.5°	126.9	129.7	202.8	496.7	1422.6	2478.1	2496.1	2333.2	1646.1	724.4	252.5
80°	64.9	69.0	99.3	186.3	585.0	1349.4	1378.4	1330.1	689.9	213.9	60.7
82.5°	30.4	31.7	58.0	103.5	267.7	529.8	529.8	582.3	244.2	120.0	24.8
85°	11.0	11.0	30.4	59.3	113.1	176.6	178.0	179.4	128.3	89.7	11.0
87.5°	4.1	4.1	15.2	24.8	41.4	53.8	53.8	42.8	64.9	59.3	4.1
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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	580.9	572.6	565.7	556.1	543.6	536.7	538.1	529.8	529.8	525.7	524.3
5°	580.9	572.6	554.7	538.1	527.1	513.3	506.4	500.9	500.9	498.1	499.5
7.5°	585.0	572.6	547.8	525.7	507.8	494.0	482.9	481.5	478.8	471.9	477.4
10°	609.9	591.9	550.5	520.2	499.5	484.3	465.0	459.5	451.2	438.8	440.2
12.5°	630.6	607.1	569.9	528.5	502.2	477.4	433.3	385.0	364.3	342.2	343.6
15°	660.9	627.8	576.8	539.5	502.2	422.2	342.2	280.1	247.0	230.4	230.4
17.5°	677.5	649.9	596.1	546.4	462.2	343.6	242.8	189.0	183.5	186.3	186.3
20°	712.0	674.7	618.2	551.9	396.0	244.2	178.0	172.5	175.2	180.8	179.4
22.5°	734.1	696.8	634.7	527.1	306.3	175.2	167.0	164.2	167.0	173.9	173.9
25°	752.0	728.5	660.9	466.4	216.6	158.7	155.9	158.7	161.4	164.2	168.3
27.5°	796.1	756.1	678.9	387.7	155.9	147.6	150.4	151.8	151.8	155.9	157.3
30°	825.1	793.4	692.7	299.4	138.0	136.6	139.4	140.7	142.1	146.3	147.6
32.5°	852.7	841.7	674.7	202.8	129.7	126.9	125.6	126.9	132.5	136.6	135.2
35°	892.7	885.8	648.5	140.7	121.4	115.9	113.1	114.5	118.7	122.8	121.4
37.5°	941.0	947.9	585.0	122.8	113.1	106.2	100.7	100.7	102.1	106.2	107.6
40°	997.6	1015.5	510.5	114.5	107.6	99.3	93.8	86.9	85.5	84.2	85.5
42.5°	1101.1	1121.8	426.4	109.0	99.3	89.7	81.4	73.1	66.2	62.1	62.1
45°	1246.0	1229.4	316.0	103.5	95.2	81.4	69.0	59.3	49.7	45.5	45.5
47.5°	1446.0	1389.5	216.6	98.0	88.3	71.7	58.0	45.5	37.3	33.1	33.1
50°	1723.4	1537.1	140.7	92.4	84.2	62.1	46.9	33.1	27.6	26.2	27.6
52.5°	1985.5	1687.5	111.8	85.5	75.9	53.8	35.9	27.6	24.8	23.5	23.5
55°	2227.0	1763.4	99.3	78.6	69.0	44.2	30.4	23.5	22.1	20.7	20.7
57.5°	2431.2	1789.6	85.5	69.0	55.2	34.5	24.8	20.7	17.9	16.6	16.6
60°	2607.8	1796.5	66.2	55.2	40.0	26.2	20.7	17.9	15.2	12.4	12.4
62.5°	2748.6	1748.2	46.9	38.6	27.6	20.7	17.9	12.4	8.3	5.5	4.1
65°	2860.3	1651.6	31.7	26.2	17.9	15.2	11.0	5.5	1.4	0.0	0.0
67.5°	2729.2	1432.2	24.8	19.3	12.4	9.7	5.5	1.4	0.0	0.0	0.0
70°	2225.6	1110.7	17.9	12.4	8.3	2.8	1.4	0.0	0.0	0.0	0.0
72.5°	1515.0	716.1	13.8	8.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0
75°	680.2	256.6	9.7	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	165.6	60.7	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.2	15.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.6	5.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	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)