

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: P676700

Luminaire Tested: **CCW-SA-1F-735-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676700  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-735-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) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

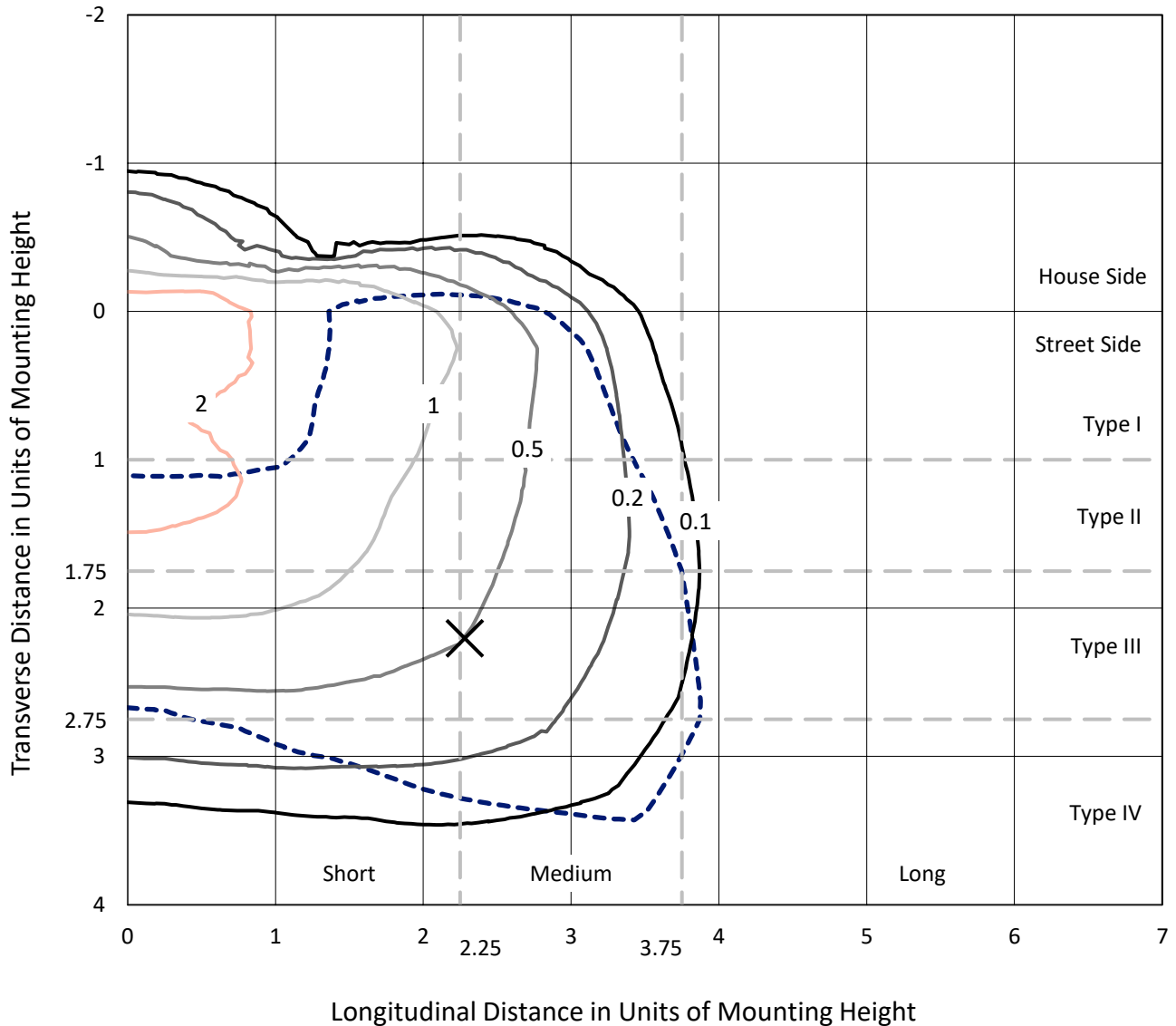
Lumens per Lamp: N/A  
Luminaire Lumens: 5335.3 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

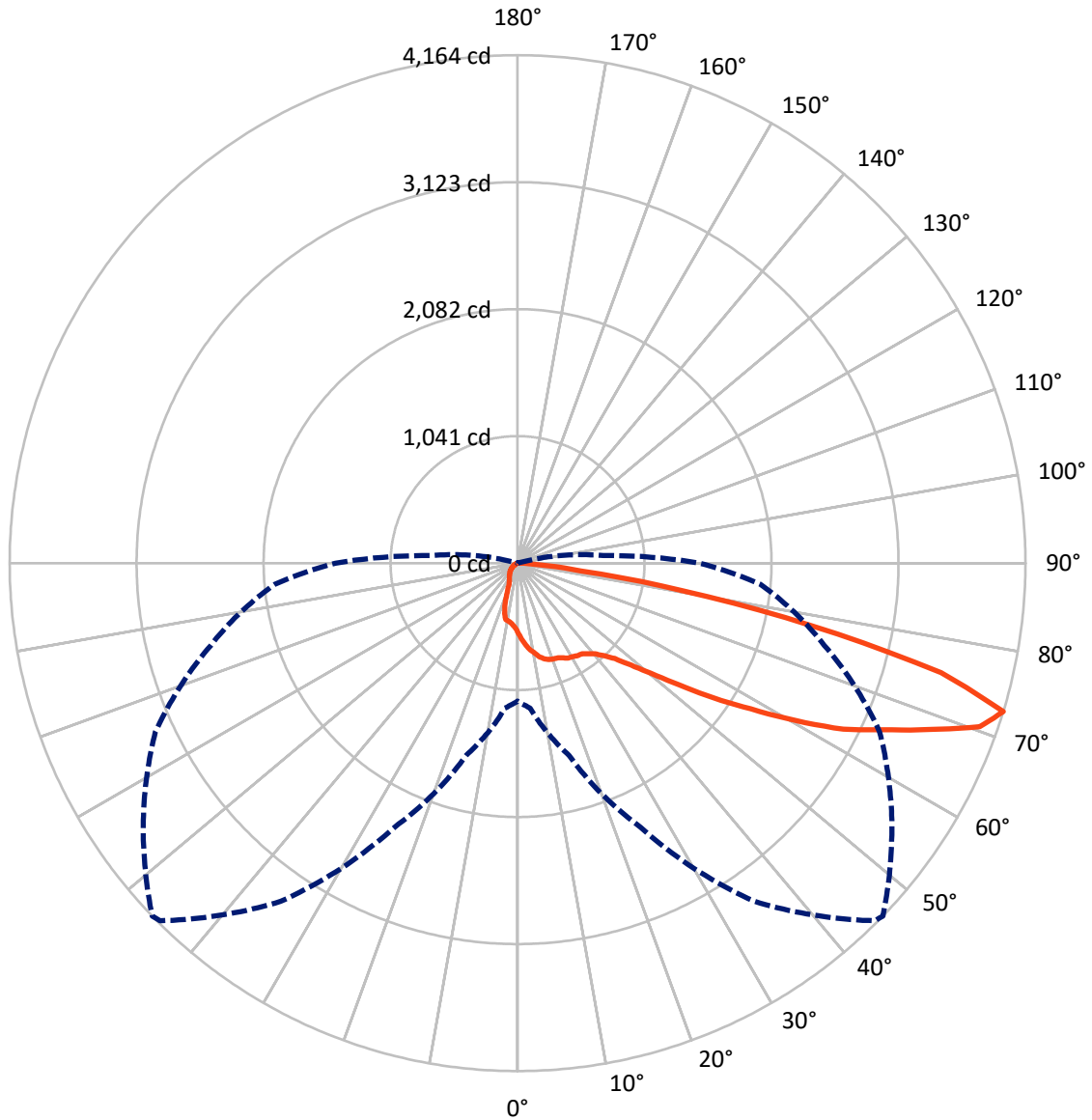
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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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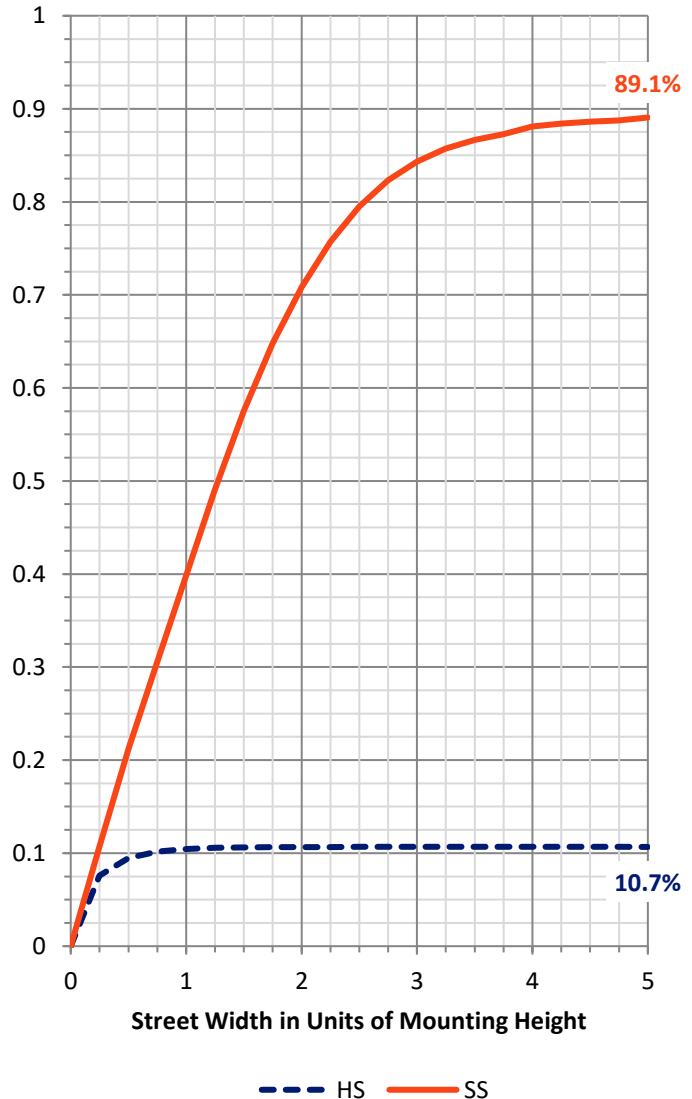
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	574.4	0.0	574.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4760.9	0.0	4760.9
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5335.3	0.0	5335.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	1.1
10°-20°	172.3	3.2
20°-30°	269.8	5.1
30°-40°	377.8	7.1
40°-50°	622.9	11.7
50°-60°	1119.6	21.0
60°-70°	1622.8	30.4
70°-80°	1012.8	19.0
80°-90°	80.3	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°	5335.3	100.0
0°-180°	5335.3	100.0



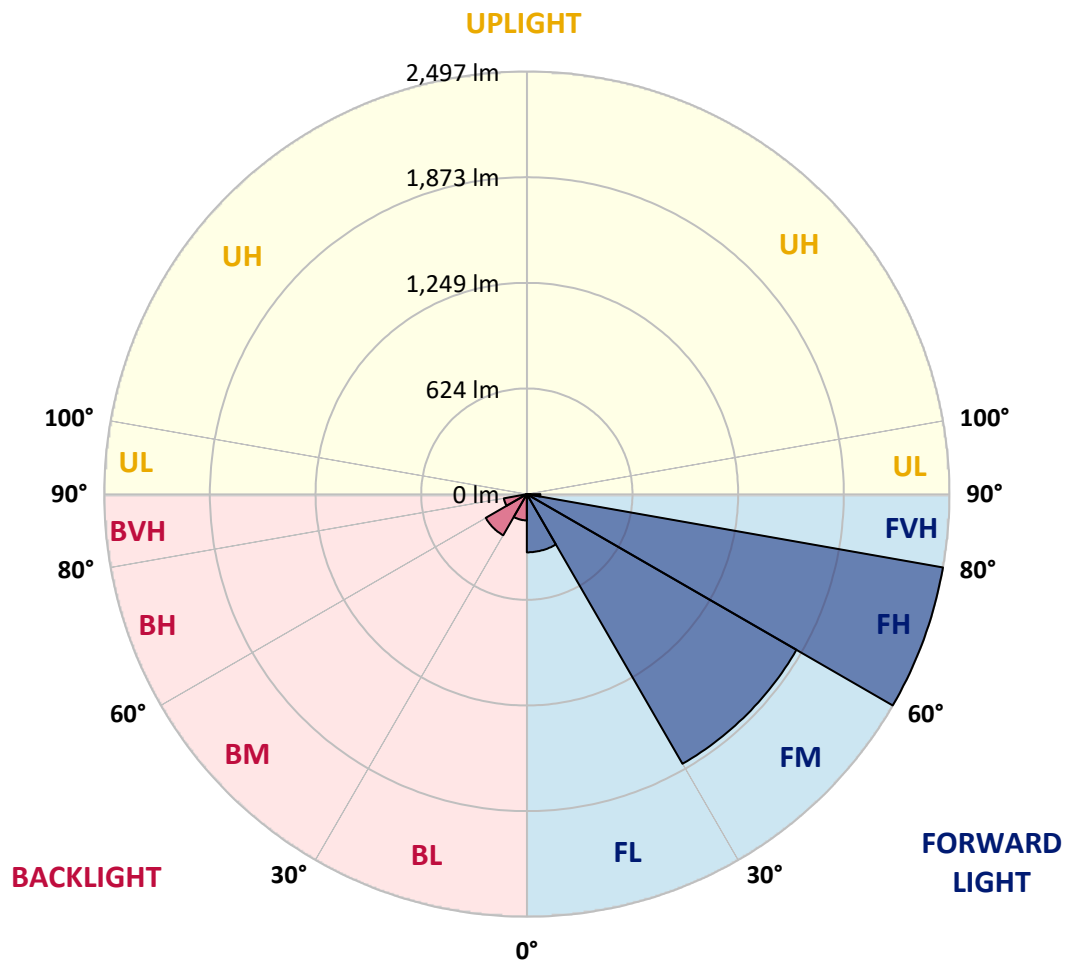
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.9	6.4			
FM (30°-60°)	1839.7	34.5			
FH (60°-80°)	2497.4	46.8			G2/5000
FVH (80°-90°)	79.8	1.5			G1/100
BL (0°-30°)	155.2	2.9	B1/500		
BM (30°-60°)	280.6	5.3	B1/1000		
BH (60°-80°)	138.1	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°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	638.3	635.5	639.6	638.3	621.9	624.7	623.3	612.4	593.4	582.5	575.7
5°	711.7	718.6	713.1	700.9	691.3	672.3	669.6	651.9	621.9	602.9	582.5
7.5°	788.0	788.0	777.1	758.0	737.6	717.2	714.5	684.5	658.7	626.0	597.4
10°	845.1	838.3	830.1	809.7	786.6	759.4	745.8	724.0	695.4	656.0	619.2
12.5°	895.5	884.6	871.0	841.0	813.8	783.9	786.6	751.2	732.2	696.8	642.3
15°	924.0	914.5	902.3	875.1	832.9	819.3	813.8	792.0	758.0	722.6	670.9
17.5°	930.9	924.0	907.7	872.3	849.2	832.9	831.5	805.7	790.7	760.7	703.6
20°	917.2	905.0	892.7	869.6	847.8	842.4	838.3	838.3	819.3	779.8	724.0
22.5°	894.1	880.5	873.7	860.1	842.4	841.0	843.8	841.0	826.1	800.2	745.8
25°	876.4	869.6	858.7	854.6	843.8	864.2	860.1	856.0	851.9	822.0	779.8
27.5°	881.9	880.5	872.3	856.0	847.8	869.6	881.9	883.2	881.9	851.9	811.1
30°	884.6	877.8	869.6	865.5	868.3	890.0	890.0	920.0	907.7	877.8	842.4
32.5°	915.9	911.8	884.6	875.1	876.4	902.3	903.6	933.6	929.5	909.1	869.6
35°	982.6	955.3	915.9	888.7	888.7	922.7	911.8	955.3	966.2	933.6	888.7
37.5°	1081.9	1061.5	990.7	929.5	906.4	930.9	941.7	966.2	998.9	970.3	926.8
40°	1279.2	1275.2	1174.5	1042.4	951.3	973.0	977.1	1015.2	1037.0	997.5	985.3
42.5°	1567.8	1547.3	1453.4	1245.2	1032.9	1023.4	1038.4	1062.9	1114.6	1081.9	1052.0
45°	1849.5	1839.9	1746.0	1513.3	1181.3	1124.1	1115.9	1159.5	1235.7	1200.3	1177.2
47.5°	2053.6	2034.5	1981.5	1785.5	1399.0	1242.5	1247.9	1291.5	1388.1	1360.9	1367.7
50°	2210.1	2200.6	2144.8	2037.3	1673.9	1428.9	1418.1	1461.6	1592.2	1609.9	1629.0
52.5°	2381.6	2399.3	2324.4	2233.2	1999.2	1679.3	1654.8	1669.8	1838.6	1879.4	1932.5
55°	2546.2	2574.8	2500.0	2487.7	2339.4	1957.0	1952.9	1917.5	2135.2	2140.7	2169.3
57.5°	2653.7	2644.2	2638.8	2705.5	2679.6	2275.4	2255.0	2219.6	2417.0	2381.6	2467.3
60°	2661.9	2689.1	2780.3	2945.0	2991.2	2649.7	2619.7	2523.1	2660.6	2576.2	2739.5
62.5°	2723.2	2744.9	2913.7	3140.9	3200.8	2979.0	2999.4	2754.5	2868.8	2802.1	3041.6
65°	2568.0	2636.1	2974.9	3293.4	3475.7	3312.4	3292.0	3052.5	3082.4	3019.8	3339.6
67.5°	2427.8	2453.7	2807.5	3339.6	3693.5	3647.2	3639.0	3316.5	3302.9	3187.2	3424.0
70°	1973.3	2004.6	2354.3	3102.8	3767.0	4037.8	4018.7	3686.7	3452.6	3096.0	2991.2
72.5°	1130.9	1193.5	1631.7	2389.7	3384.5	4146.6	4164.3	3746.5	3275.7	2603.4	1997.8
75°	370.2	387.9	677.7	1354.1	2531.3	3617.3	3586.0	3219.9	2642.9	1718.8	902.3
77.5°	125.2	127.9	200.1	489.9	1403.1	2444.2	2461.9	2301.3	1623.5	714.5	249.0
80°	64.0	68.0	98.0	183.7	577.0	1331.0	1359.5	1311.9	680.4	210.9	59.9
82.5°	29.9	31.3	57.2	102.1	264.0	522.6	522.6	574.3	240.9	118.4	24.5
85°	10.9	10.9	29.9	58.5	111.6	174.2	175.6	176.9	126.6	88.5	10.9
87.5°	4.1	4.1	15.0	24.5	40.8	53.1	53.1	42.2	64.0	58.5	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°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	572.9	564.8	558.0	548.4	536.2	529.4	530.7	522.6	522.6	518.5	517.1
5°	572.9	564.8	547.1	530.7	519.9	506.3	499.4	494.0	494.0	491.3	492.6
7.5°	577.0	564.8	540.3	518.5	500.8	487.2	476.3	475.0	472.2	465.4	470.9
10°	601.5	583.8	543.0	513.1	492.6	477.7	458.6	453.2	445.0	432.8	434.1
12.5°	621.9	598.8	562.1	521.2	495.4	470.9	427.3	379.7	359.3	337.5	338.9
15°	651.9	619.2	568.9	532.1	495.4	416.4	337.5	276.3	243.6	227.3	227.3
17.5°	668.2	641.0	587.9	538.9	455.9	338.9	239.5	186.4	181.0	183.7	183.7
20°	702.2	665.5	609.7	544.4	390.6	240.9	175.6	170.1	172.8	178.3	176.9
22.5°	724.0	687.3	626.0	519.9	302.1	172.8	164.7	161.9	164.7	171.5	171.5
25°	741.7	718.6	651.9	460.0	213.7	156.5	153.8	156.5	159.2	161.9	166.0
27.5°	785.2	745.8	669.6	382.4	153.8	145.6	148.3	149.7	149.7	153.8	155.1
30°	813.8	782.5	683.2	295.3	136.1	134.7	137.5	138.8	140.2	144.3	145.6
32.5°	841.0	830.1	665.5	200.1	127.9	125.2	123.8	125.2	130.6	134.7	133.4
35°	880.5	873.7	639.6	138.8	119.8	114.3	111.6	113.0	117.0	121.1	119.8
37.5°	928.1	934.9	577.0	121.1	111.6	104.8	99.3	99.3	100.7	104.8	106.1
40°	983.9	1001.6	503.5	113.0	106.1	98.0	92.5	85.7	84.4	83.0	84.4
42.5°	1086.0	1106.4	420.5	107.5	98.0	88.5	80.3	72.1	65.3	61.2	61.2
45°	1228.9	1212.6	311.6	102.1	93.9	80.3	68.0	58.5	49.0	44.9	44.9
47.5°	1426.2	1370.4	213.7	96.6	87.1	70.8	57.2	44.9	36.7	32.7	32.7
50°	1699.8	1516.0	138.8	91.2	83.0	61.2	46.3	32.7	27.2	25.9	27.2
52.5°	1958.3	1664.4	110.2	84.4	74.8	53.1	35.4	27.2	24.5	23.1	23.1
55°	2196.5	1739.2	98.0	77.6	68.0	43.5	29.9	23.1	21.8	20.4	20.4
57.5°	2397.9	1765.1	84.4	68.0	54.4	34.0	24.5	20.4	17.7	16.3	16.3
60°	2572.1	1771.9	65.3	54.4	39.5	25.9	20.4	17.7	15.0	12.2	12.2
62.5°	2710.9	1724.3	46.3	38.1	27.2	20.4	17.7	12.2	8.2	5.4	4.1
65°	2821.1	1629.0	31.3	25.9	17.7	15.0	10.9	5.4	1.4	0.0	0.0
67.5°	2691.9	1412.6	24.5	19.1	12.2	9.5	5.4	1.4	0.0	0.0	0.0
70°	2195.1	1095.5	17.7	12.2	8.2	2.7	1.4	0.0	0.0	0.0	0.0
72.5°	1494.3	706.3	13.6	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
75°	670.9	253.1	9.5	5.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	163.3	59.9	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.5	15.0	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	5.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	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)