

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: P676713

Luminaire Tested: **CCW-SA-2B-740-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676713  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-740-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4W distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

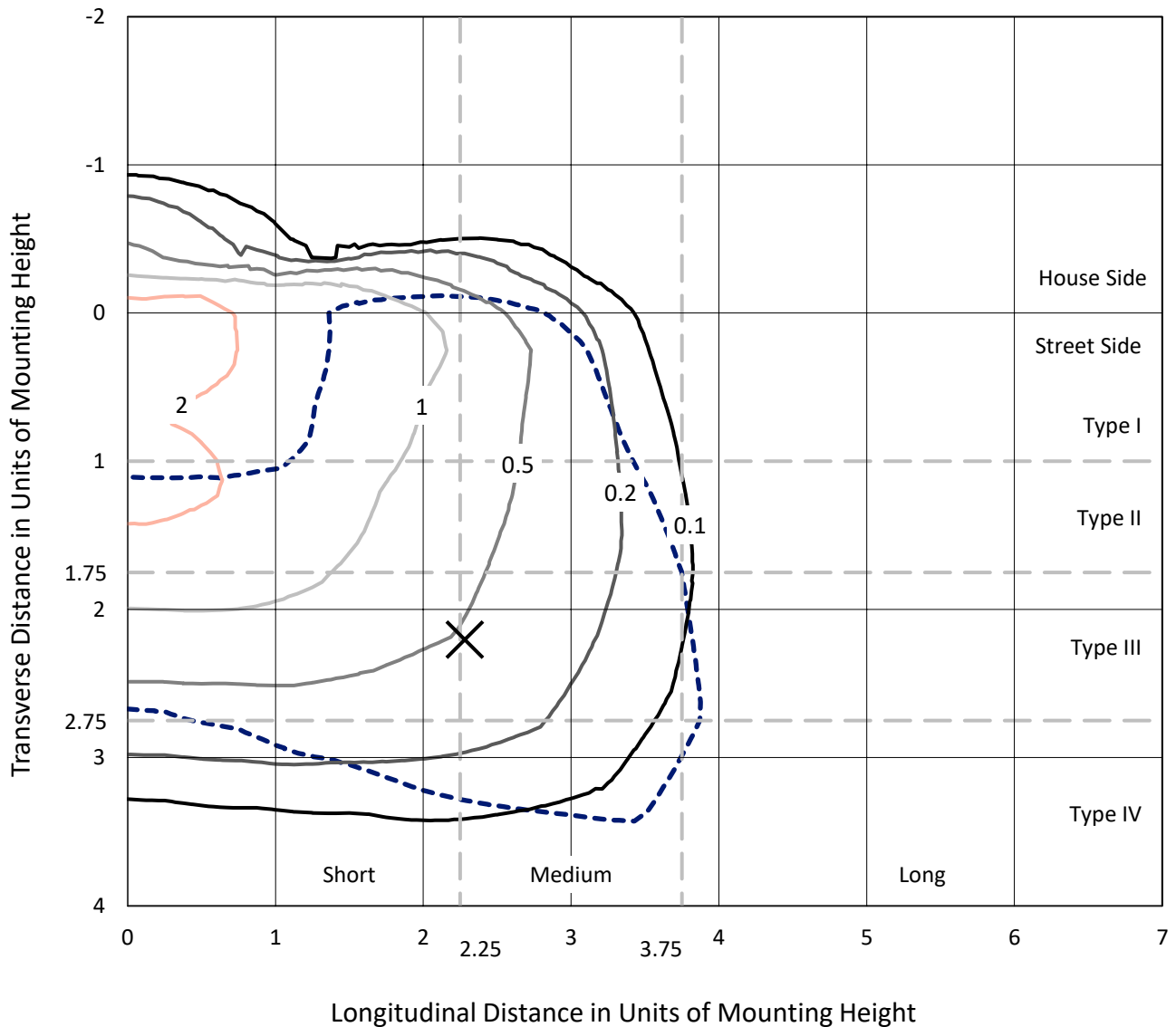
Lumens per Lamp: N/A  
Luminaire Lumens: 4982.7 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

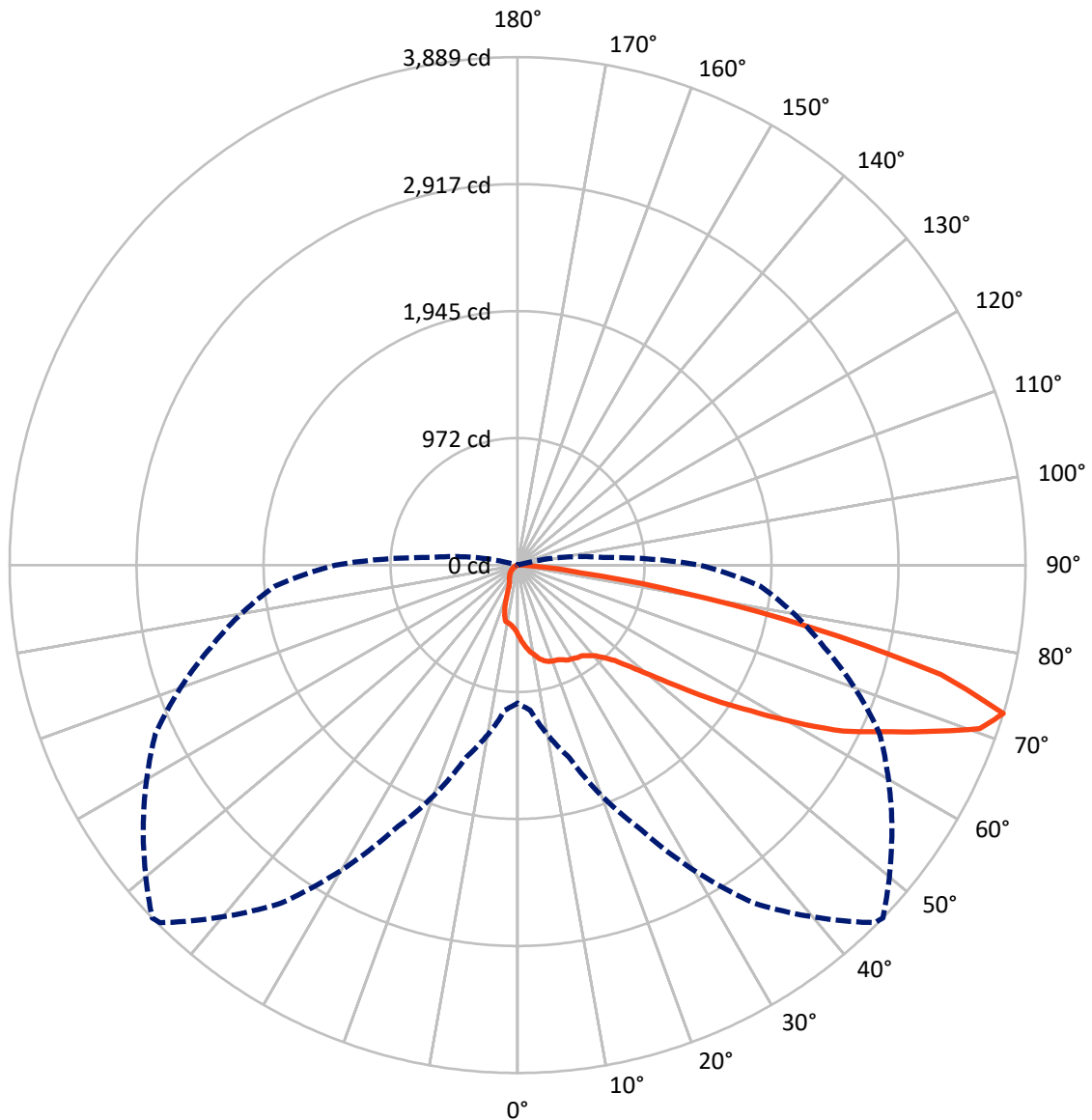
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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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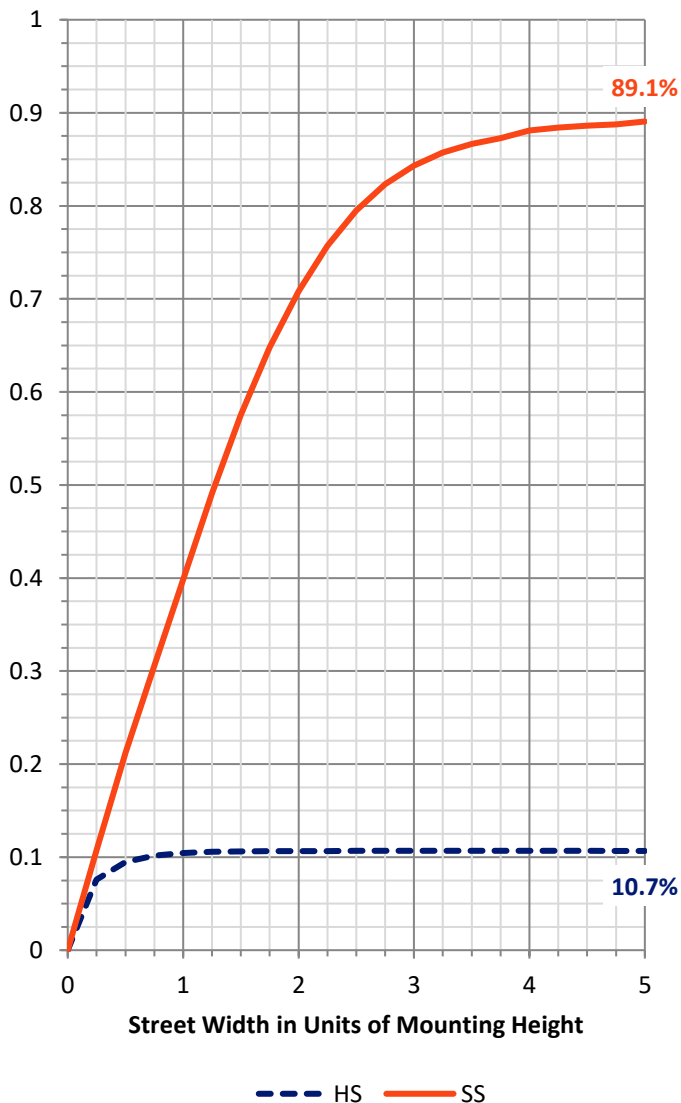
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	536.4	0.0	536.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4446.2	0.0	4446.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4982.7	0.0	4982.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	1.1
10°-20°	160.9	3.2
20°-30°	251.9	5.1
30°-40°	352.8	7.1
40°-50°	581.8	11.7
50°-60°	1045.6	21.0
60°-70°	1515.5	30.4
70°-80°	945.8	19.0
80°-90°	75.0	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°	4982.7	100.0
0°-180°	4982.7	100.0

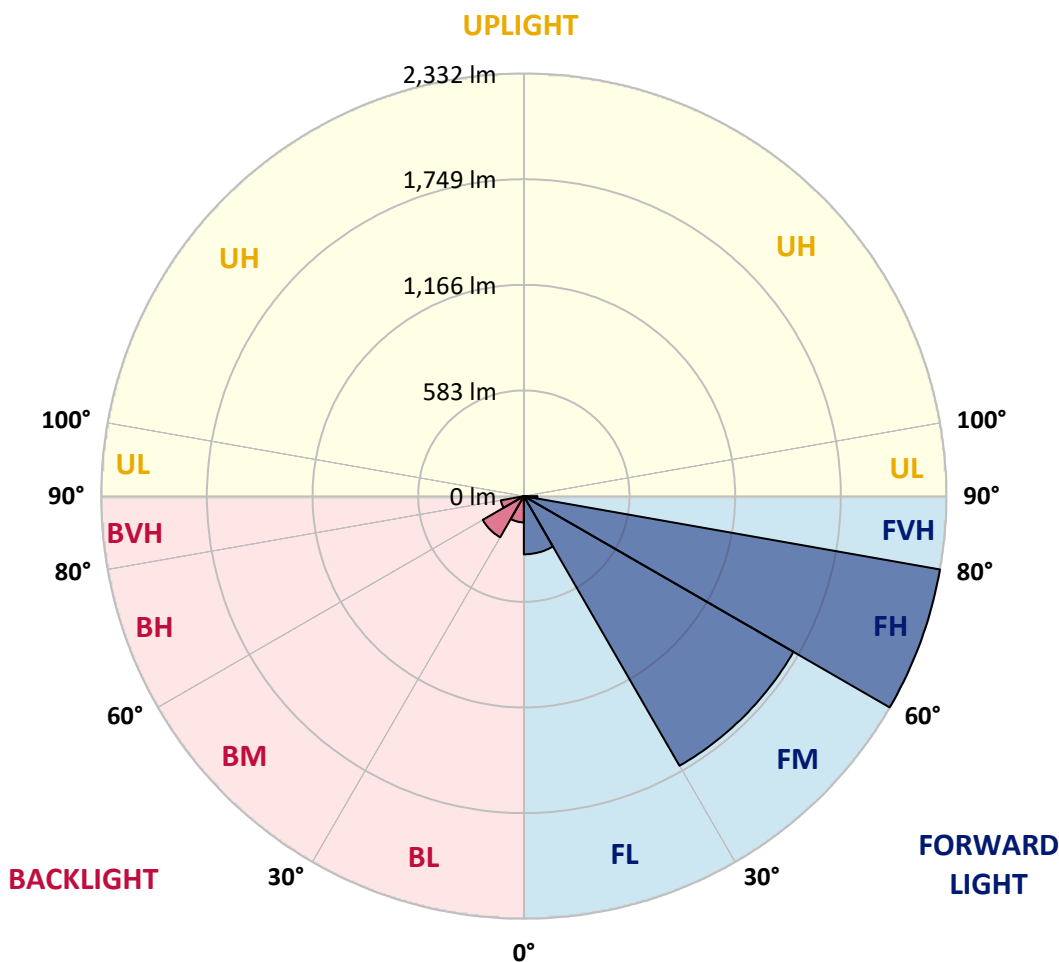


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.2	6.4			
FM (30°-60°)	1718.1	34.5			
FH (60°-80°)	2332.4	46.8			G2/5000
FVH (80°-90°)	74.6	1.5			G1/100
BL (0°-30°)	145.0	2.9	B1/500		
BM (30°-60°)	262.1	5.3	B1/1000		
BH (60°-80°)	129.0	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°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
2.5°	596.1	593.5	597.3	596.1	580.8	583.4	582.1	571.9	554.1	544.0	537.6
5°	664.7	671.1	666.0	654.5	645.6	627.8	625.3	608.8	580.8	563.0	544.0
7.5°	735.9	735.9	725.7	707.9	688.9	669.8	667.2	639.3	615.1	584.6	557.9
10°	789.3	782.9	775.3	756.2	734.6	709.2	696.5	676.1	649.5	612.6	578.3
12.5°	836.3	826.1	813.4	785.4	760.0	732.1	734.6	701.6	683.8	650.7	599.9
15°	863.0	854.1	842.6	817.2	777.8	765.1	760.0	739.7	707.9	674.9	626.6
17.5°	869.3	863.0	847.7	814.7	793.1	777.8	776.6	752.4	738.4	710.5	657.1
20°	856.6	845.2	833.7	812.1	791.8	786.7	782.9	782.9	765.1	728.3	676.1
22.5°	835.0	822.3	816.0	803.2	786.7	785.4	788.0	785.4	771.5	747.3	696.5
25°	818.5	812.1	802.0	798.2	788.0	807.1	803.2	799.4	795.6	767.7	728.3
27.5°	823.6	822.3	814.7	799.4	791.8	812.1	823.6	824.8	823.6	795.6	757.5
30°	826.1	819.8	812.1	808.3	810.9	831.2	831.2	859.2	847.7	819.8	786.7
32.5°	855.3	851.5	826.1	817.2	818.5	842.6	843.9	871.9	868.1	849.0	812.1
35°	917.6	892.2	855.3	829.9	829.9	861.7	851.5	892.2	902.4	871.9	829.9
37.5°	1010.4	991.3	925.3	868.1	846.5	869.3	879.5	902.4	932.9	906.2	865.5
40°	1194.7	1190.9	1096.8	973.5	888.4	908.7	912.5	948.1	968.5	931.6	920.2
42.5°	1464.1	1445.1	1357.4	1162.9	964.7	955.8	969.7	992.6	1040.9	1010.4	982.4
45°	1727.2	1718.3	1630.6	1413.3	1103.2	1049.8	1042.2	1082.8	1154.0	1121.0	1099.4
47.5°	1917.9	1900.1	1850.5	1667.5	1306.5	1160.4	1165.5	1206.1	1296.4	1271.0	1277.3
50°	2064.0	2055.1	2003.0	1902.6	1563.3	1334.5	1324.3	1365.0	1487.0	1503.5	1521.3
52.5°	2224.2	2240.7	2170.8	2085.6	1867.0	1568.4	1545.5	1559.5	1717.1	1755.2	1804.7
55°	2377.9	2404.6	2334.7	2323.3	2184.8	1827.6	1823.8	1790.8	1994.1	1999.2	2025.9
57.5°	2478.4	2469.5	2464.4	2526.6	2502.5	2125.0	2106.0	2072.9	2257.2	2224.2	2304.2
60°	2486.0	2511.4	2596.6	2750.3	2793.5	2474.5	2446.6	2356.3	2484.7	2405.9	2558.4
62.5°	2543.2	2563.5	2721.1	2933.4	2989.3	2782.1	2801.2	2572.4	2679.2	2616.9	2840.6
65°	2398.3	2461.8	2778.3	3075.7	3246.0	3093.5	3074.4	2850.7	2878.7	2820.2	3118.9
67.5°	2267.4	2291.5	2622.0	3118.9	3449.4	3406.1	3398.5	3097.3	3084.6	2976.6	3197.7
70°	1842.9	1872.1	2198.7	2897.8	3518.0	3770.9	3753.1	3443.0	3224.4	2891.4	2793.5
72.5°	1056.2	1114.6	1523.9	2231.8	3160.9	3872.6	3889.1	3498.9	3059.2	2431.3	1865.8
75°	345.7	362.2	632.9	1264.6	2364.0	3378.2	3349.0	3007.1	2468.2	1605.2	842.6
77.5°	116.9	119.5	186.8	457.5	1310.3	2282.6	2299.1	2149.2	1516.2	667.2	232.6
80°	59.7	63.5	91.5	171.6	538.9	1243.0	1269.7	1225.2	635.5	197.0	55.9
82.5°	28.0	29.2	53.4	95.3	246.6	488.0	488.0	536.3	225.0	110.6	22.9
85°	10.2	10.2	28.0	54.7	104.2	162.7	164.0	165.2	118.2	82.6	10.2
87.5°	3.8	3.8	14.0	22.9	38.1	49.6	49.6	39.4	59.7	54.7	3.8
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°	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5	532.5
2.5°	535.1	527.4	521.1	512.2	500.8	494.4	495.7	488.0	488.0	484.2	483.0
5°	535.1	527.4	510.9	495.7	485.5	472.8	466.4	461.4	461.4	458.8	460.1
7.5°	538.9	527.4	504.6	484.2	467.7	455.0	444.8	443.6	441.0	434.7	439.7
10°	561.8	545.2	507.1	479.1	460.1	446.1	428.3	423.2	415.6	404.2	405.4
12.5°	580.8	559.2	524.9	486.8	462.6	439.7	399.1	354.6	335.5	315.2	316.5
15°	608.8	578.3	531.3	496.9	462.6	388.9	315.2	258.0	227.5	212.2	212.2
17.5°	624.0	598.6	549.1	503.3	425.8	316.5	223.7	174.1	169.0	171.6	171.6
20°	655.8	621.5	569.4	508.4	364.8	225.0	164.0	158.9	161.4	166.5	165.2
22.5°	676.1	641.8	584.6	485.5	282.2	161.4	153.8	151.2	153.8	160.1	160.1
25°	692.7	671.1	608.8	429.6	199.5	146.2	143.6	146.2	148.7	151.2	155.1
27.5°	733.3	696.5	625.3	357.1	143.6	136.0	138.5	139.8	139.8	143.6	144.9
30°	760.0	730.8	638.0	275.8	127.1	125.8	128.4	129.6	130.9	134.7	136.0
32.5°	785.4	775.3	621.5	186.8	119.5	116.9	115.7	116.9	122.0	125.8	124.6
35°	822.3	816.0	597.3	129.6	111.8	106.8	104.2	105.5	109.3	113.1	111.8
37.5°	866.8	873.1	538.9	113.1	104.2	97.9	92.8	92.8	94.1	97.9	99.1
40°	918.9	935.4	470.3	105.5	99.1	91.5	86.4	80.1	78.8	77.5	78.8
42.5°	1014.2	1033.3	392.7	100.4	91.5	82.6	75.0	67.4	61.0	57.2	57.2
45°	1147.7	1132.4	291.0	95.3	87.7	75.0	63.5	54.7	45.8	41.9	41.9
47.5°	1332.0	1279.8	199.5	90.2	81.3	66.1	53.4	41.9	34.3	30.5	30.5
50°	1587.4	1415.8	129.6	85.2	77.5	57.2	43.2	30.5	25.4	24.1	25.4
52.5°	1828.9	1554.4	102.9	78.8	69.9	49.6	33.0	25.4	22.9	21.6	21.6
55°	2051.3	1624.3	91.5	72.4	63.5	40.7	28.0	21.6	20.3	19.1	19.1
57.5°	2239.4	1648.4	78.8	63.5	50.8	31.8	22.9	19.1	16.5	15.3	15.3
60°	2402.1	1654.8	61.0	50.8	36.9	24.1	19.1	16.5	14.0	11.4	11.4
62.5°	2531.7	1610.3	43.2	35.6	25.4	19.1	16.5	11.4	7.6	5.1	3.8
65°	2634.7	1521.3	29.2	24.1	16.5	14.0	10.2	5.1	1.3	0.0	0.0
67.5°	2513.9	1319.2	22.9	17.8	11.4	8.9	5.1	1.3	0.0	0.0	0.0
70°	2050.0	1023.1	16.5	11.4	7.6	2.5	1.3	0.0	0.0	0.0	0.0
72.5°	1395.5	659.6	12.7	7.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0
75°	626.6	236.4	8.9	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	152.5	55.9	6.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.7	14.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.3	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.3	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)