

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: P676709

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676709  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-740-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

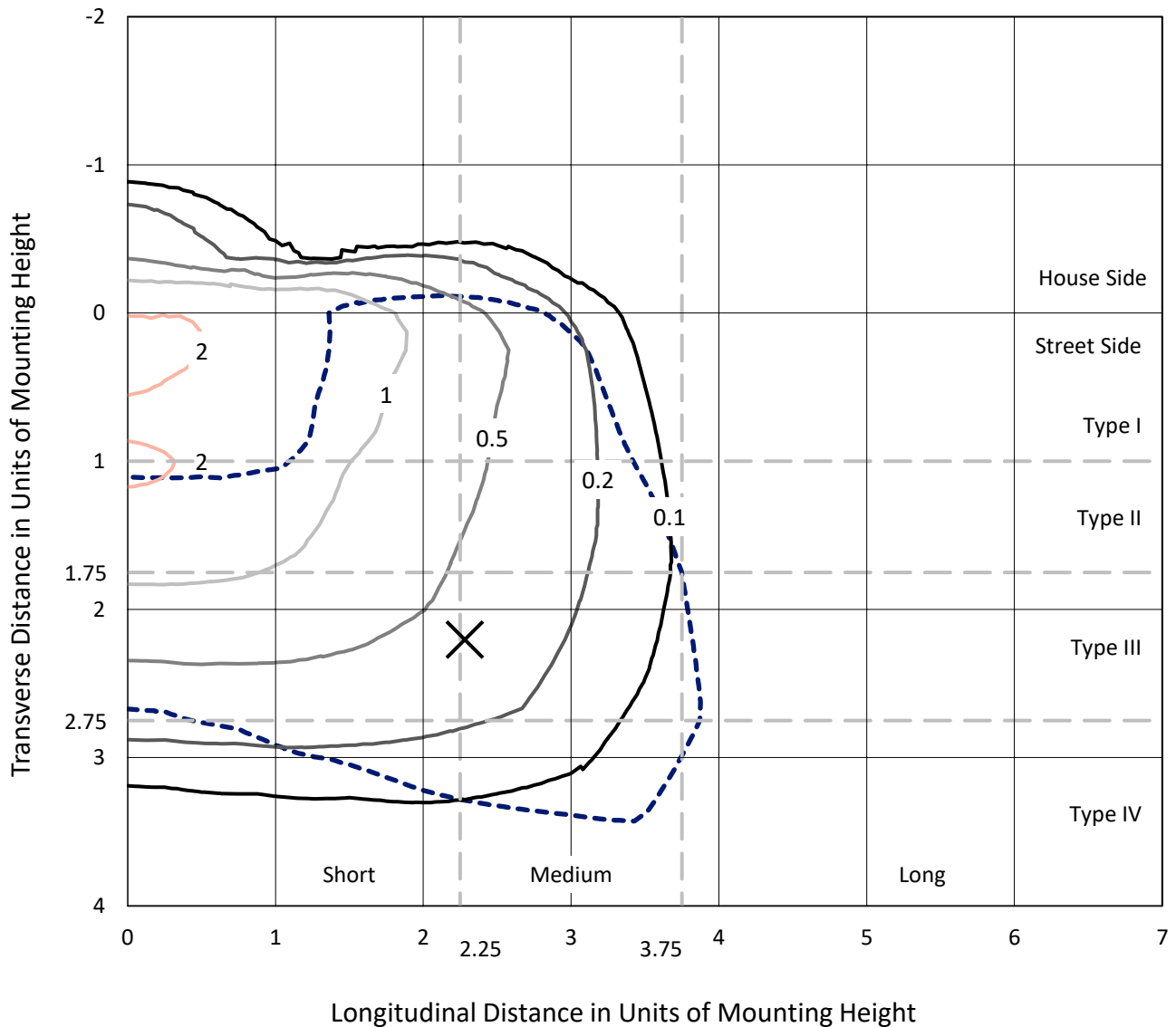
Lumens per Lamp: N/A  
Luminaire Lumens: 4023.6 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

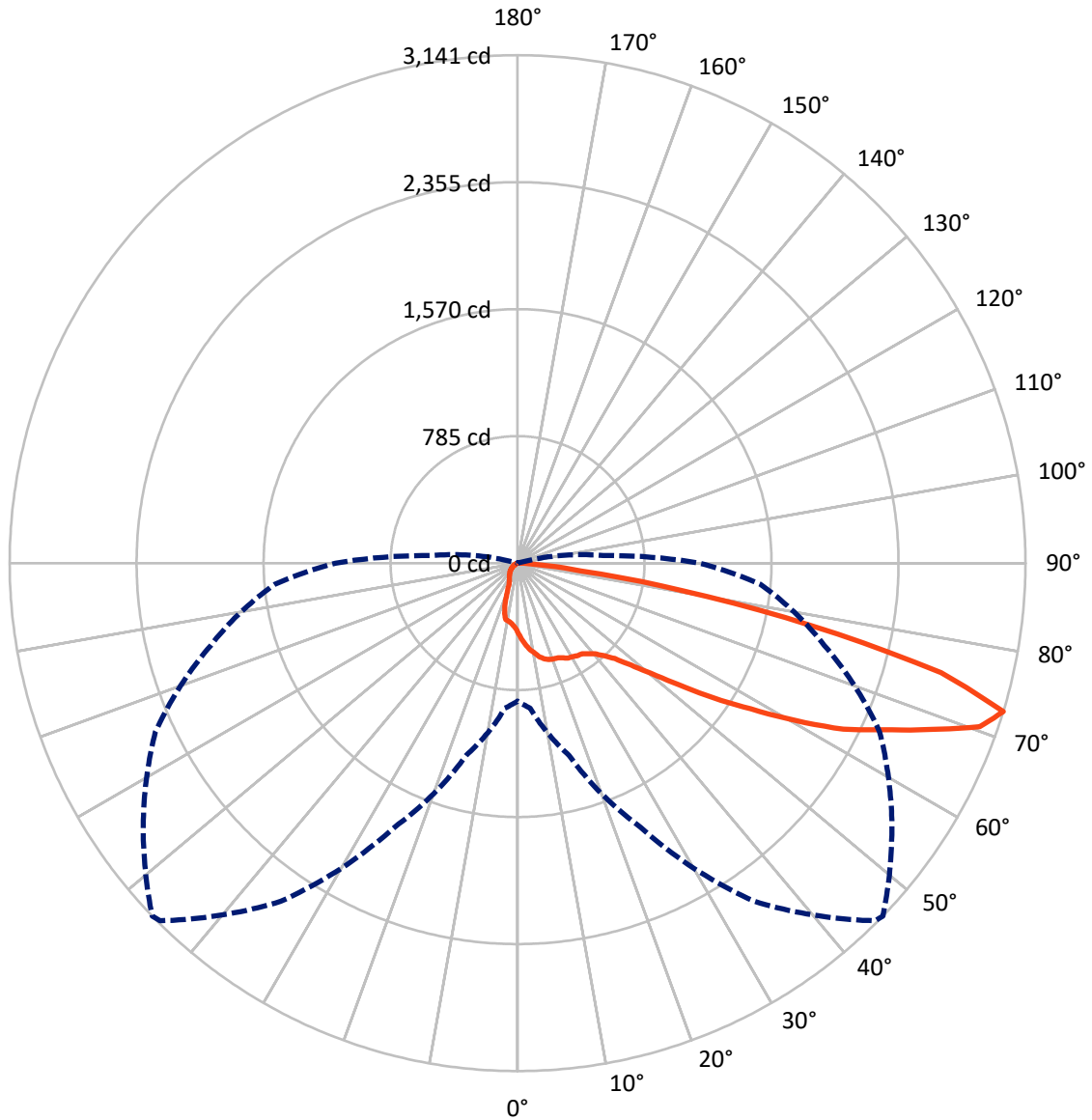
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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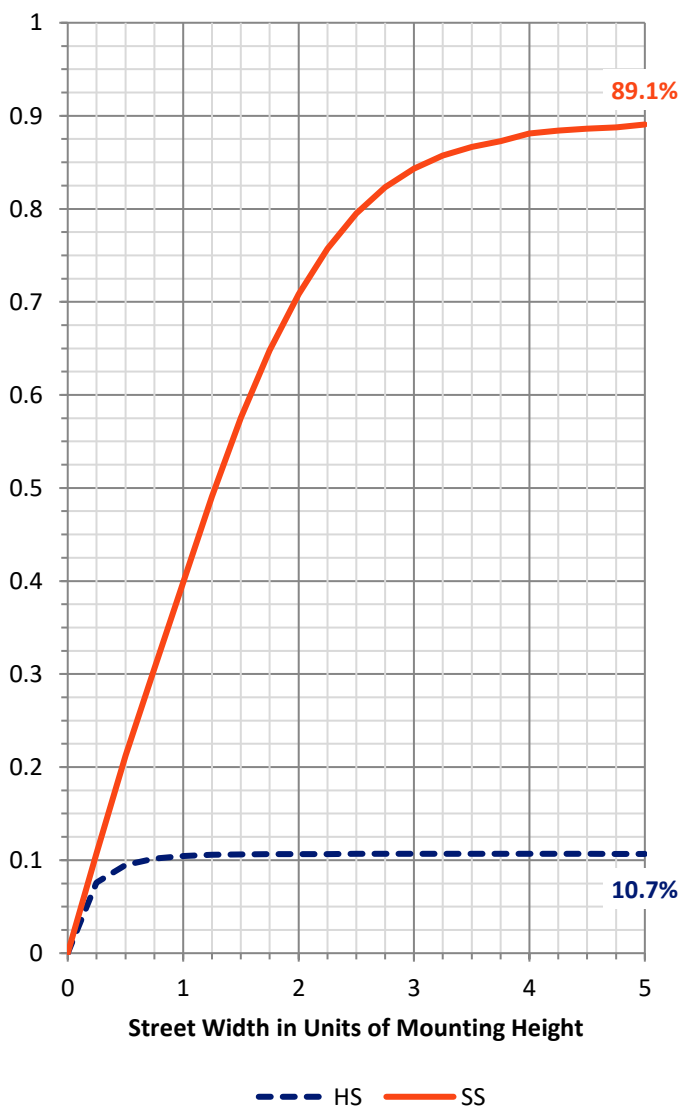
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	433.2	0.0	433.2
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3590.4	0.0	3590.4
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4023.6	0.0	4023.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	1.1
10°-20°	129.9	3.2
20°-30°	203.4	5.1
30°-40°	284.9	7.1
40°-50°	469.8	11.7
50°-60°	844.4	21.0
60°-70°	1223.8	30.4
70°-80°	763.8	19.0
80°-90°	60.5	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°	4023.6	100.0
0°-180°	4023.6	100.0

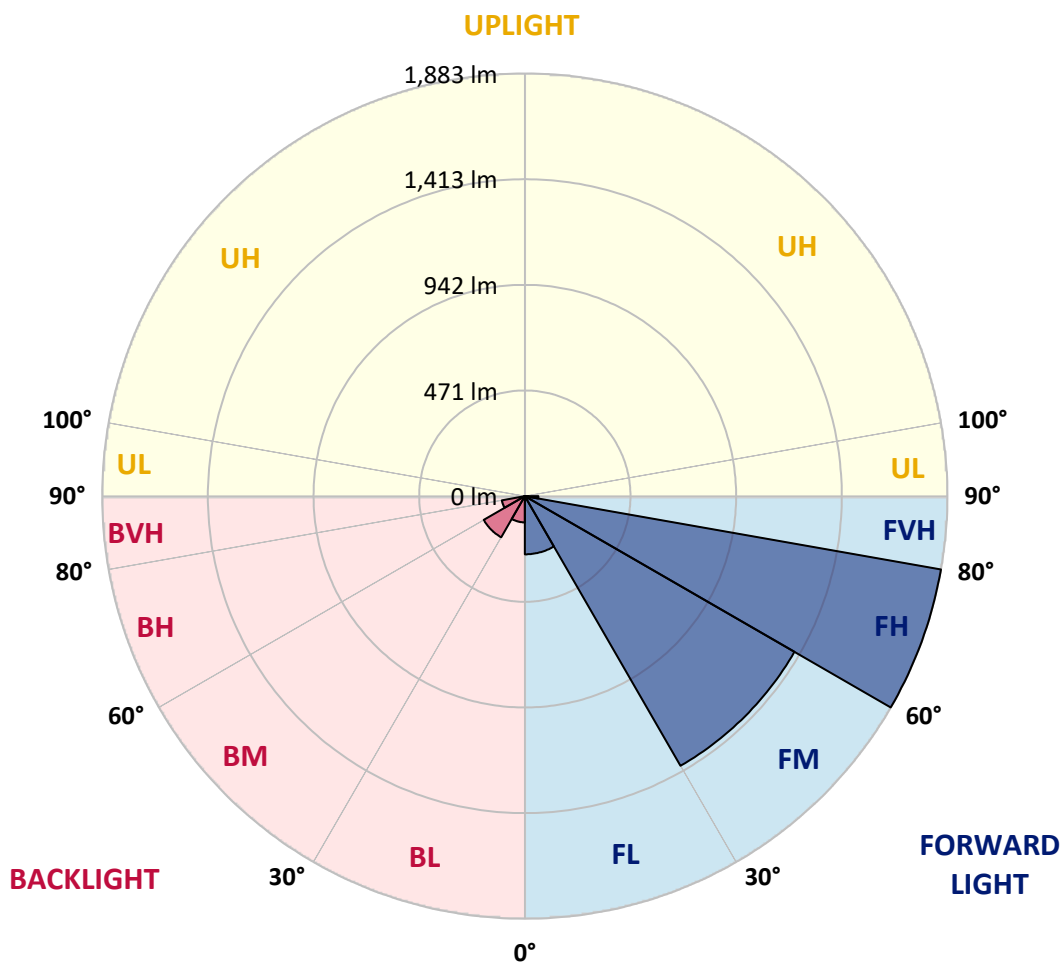


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	6.4			
FM (30°-60°)	1387.4	34.5			
FH (60°-80°)	1883.4	46.8			G2/5000
FVH (80°-90°)	60.2	1.5			G1/100
BL (0°-30°)	117.1	2.9	B1/500		
BM (30°-60°)	211.6	5.3	B0/220		
BH (60°-80°)	104.2	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
2.5°	481.3	479.3	482.4	481.3	469.0	471.1	470.1	461.8	447.5	439.3	434.1
5°	536.8	541.9	537.8	528.6	521.4	507.0	504.9	491.6	469.0	454.7	439.3
7.5°	594.2	594.2	586.0	571.7	556.3	540.9	538.8	516.2	496.7	472.1	450.6
10°	637.3	632.2	626.1	610.7	593.2	572.7	562.4	546.0	524.4	494.7	467.0
12.5°	675.3	667.1	656.8	634.3	613.7	591.2	593.2	566.5	552.2	525.5	484.4
15°	696.9	689.7	680.4	659.9	628.1	617.8	613.7	597.3	571.7	545.0	506.0
17.5°	702.0	696.9	684.6	657.9	640.4	628.1	627.1	607.6	596.3	573.7	530.6
20°	691.7	682.5	673.3	655.8	639.4	635.3	632.2	632.2	617.8	588.1	546.0
22.5°	674.3	664.0	658.9	648.6	635.3	634.3	636.3	634.3	623.0	603.5	562.4
25°	660.9	655.8	647.6	644.5	636.3	651.7	648.6	645.6	642.5	619.9	588.1
27.5°	665.1	664.0	657.9	645.6	639.4	655.8	665.1	666.1	665.1	642.5	611.7
30°	667.1	662.0	655.8	652.7	654.8	671.2	671.2	693.8	684.6	662.0	635.3
32.5°	690.7	687.6	667.1	659.9	660.9	680.4	681.5	704.1	701.0	685.6	655.8
35°	741.0	720.5	690.7	670.2	670.2	695.8	687.6	720.5	728.7	704.1	670.2
37.5°	815.9	800.5	747.2	701.0	683.5	702.0	710.2	728.7	753.3	731.8	698.9
40°	964.7	961.7	885.7	786.2	717.4	733.8	736.9	765.6	782.1	752.3	743.1
42.5°	1182.3	1166.9	1096.1	939.1	779.0	771.8	783.1	801.6	840.6	815.9	793.3
45°	1394.8	1387.6	1316.8	1141.3	890.8	847.7	841.6	874.4	931.9	905.2	887.8
47.5°	1548.7	1534.3	1494.3	1346.5	1055.1	937.0	941.1	974.0	1046.8	1026.3	1031.4
50°	1666.7	1659.6	1617.5	1536.4	1262.4	1077.6	1069.4	1102.3	1200.8	1214.1	1228.5
52.5°	1796.1	1809.4	1752.9	1684.2	1507.7	1266.5	1248.0	1259.3	1386.6	1417.3	1457.4
55°	1920.2	1941.8	1885.3	1876.1	1764.2	1475.8	1472.8	1446.1	1610.3	1614.4	1635.9
57.5°	2001.3	1994.1	1990.0	2040.3	2020.8	1716.0	1700.6	1673.9	1822.7	1796.1	1860.7
60°	2007.5	2028.0	2096.8	2220.9	2255.8	1998.2	1975.7	1902.8	2006.4	1942.8	2066.0
62.5°	2053.7	2070.1	2197.3	2368.7	2413.9	2246.6	2262.0	2077.3	2163.5	2113.2	2293.8
65°	1936.7	1988.0	2243.5	2483.7	2621.2	2498.1	2482.7	2302.0	2324.6	2277.4	2518.6
67.5°	1830.9	1850.4	2117.3	2518.6	2785.4	2750.5	2744.4	2501.1	2490.9	2403.6	2582.2
70°	1488.2	1511.8	1775.5	2340.0	2840.8	3045.1	3030.7	2780.3	2603.8	2334.9	2255.8
72.5°	852.9	900.1	1230.6	1802.2	2552.4	3127.2	3140.5	2825.4	2470.3	1963.3	1506.6
75°	279.2	292.5	511.1	1021.2	1908.9	2727.9	2704.3	2428.3	1993.1	1296.2	680.4
77.5°	94.4	96.5	150.9	369.5	1058.1	1843.3	1856.6	1735.5	1224.4	538.8	187.8
80°	48.2	51.3	73.9	138.6	435.2	1003.7	1025.3	989.4	513.2	159.1	45.2
82.5°	22.6	23.6	43.1	77.0	199.1	394.1	394.1	433.1	181.7	89.3	18.5
85°	8.2	8.2	22.6	44.1	84.2	131.4	132.4	133.4	95.4	66.7	8.2
87.5°	3.1	3.1	11.3	18.5	30.8	40.0	40.0	31.8	48.2	44.1	3.1
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°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
2.5°	432.1	425.9	420.8	413.6	404.4	399.2	400.3	394.1	394.1	391.0	390.0
5°	432.1	425.9	412.6	400.3	392.1	381.8	376.7	372.6	372.6	370.5	371.5
7.5°	435.2	425.9	407.4	391.0	377.7	367.4	359.2	358.2	356.1	351.0	355.1
10°	453.6	440.3	409.5	386.9	371.5	360.2	345.9	341.8	335.6	326.4	327.4
12.5°	469.0	451.6	423.9	393.1	373.6	355.1	322.3	286.3	270.9	254.5	255.6
15°	491.6	467.0	429.0	401.3	373.6	314.1	254.5	208.3	183.7	171.4	171.4
17.5°	503.9	483.4	443.4	406.4	343.8	255.6	180.6	140.6	136.5	138.6	138.6
20°	529.6	501.9	459.8	410.5	294.6	181.7	132.4	128.3	130.3	134.4	133.4
22.5°	546.0	518.3	472.1	392.1	227.8	130.3	124.2	122.1	124.2	129.3	129.3
25°	559.3	541.9	491.6	346.9	161.1	118.0	116.0	118.0	120.1	122.1	125.2
27.5°	592.2	562.4	504.9	288.4	116.0	109.8	111.9	112.9	112.9	116.0	117.0
30°	613.7	590.1	515.2	222.7	102.6	101.6	103.7	104.7	105.7	108.8	109.8
32.5°	634.3	626.1	501.9	150.9	96.5	94.4	93.4	94.4	98.5	101.6	100.6
35°	664.0	658.9	482.4	104.7	90.3	86.2	84.2	85.2	88.3	91.3	90.3
37.5°	699.9	705.1	435.2	91.3	84.2	79.0	74.9	74.9	75.9	79.0	80.1
40°	742.0	755.4	379.7	85.2	80.1	73.9	69.8	64.7	63.6	62.6	63.6
42.5°	819.0	834.4	317.1	81.1	73.9	66.7	60.6	54.4	49.3	46.2	46.2
45°	926.8	914.4	235.0	77.0	70.8	60.6	51.3	44.1	36.9	33.9	33.9
47.5°	1075.6	1033.5	161.1	72.9	65.7	53.4	43.1	33.9	27.7	24.6	24.6
50°	1281.9	1143.3	104.7	68.8	62.6	46.2	34.9	24.6	20.5	19.5	20.5
52.5°	1476.9	1255.2	83.1	63.6	56.4	40.0	26.7	20.5	18.5	17.4	17.4
55°	1656.5	1311.6	73.9	58.5	51.3	32.8	22.6	17.4	16.4	15.4	15.4
57.5°	1808.4	1331.1	63.6	51.3	41.1	25.7	18.5	15.4	13.3	12.3	12.3
60°	1939.7	1336.3	49.3	41.1	29.8	19.5	15.4	13.3	11.3	9.2	9.2
62.5°	2044.4	1300.3	34.9	28.7	20.5	15.4	13.3	9.2	6.2	4.1	3.1
65°	2127.6	1228.5	23.6	19.5	13.3	11.3	8.2	4.1	1.0	0.0	0.0
67.5°	2030.1	1065.3	18.5	14.4	9.2	7.2	4.1	1.0	0.0	0.0	0.0
70°	1655.4	826.2	13.3	9.2	6.2	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1126.9	532.7	10.3	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	506.0	190.9	7.2	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	123.2	45.2	5.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.8	11.3	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	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)