

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: P676527

Luminaire Tested: **CCW-SA-2D-722-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676527  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-722-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

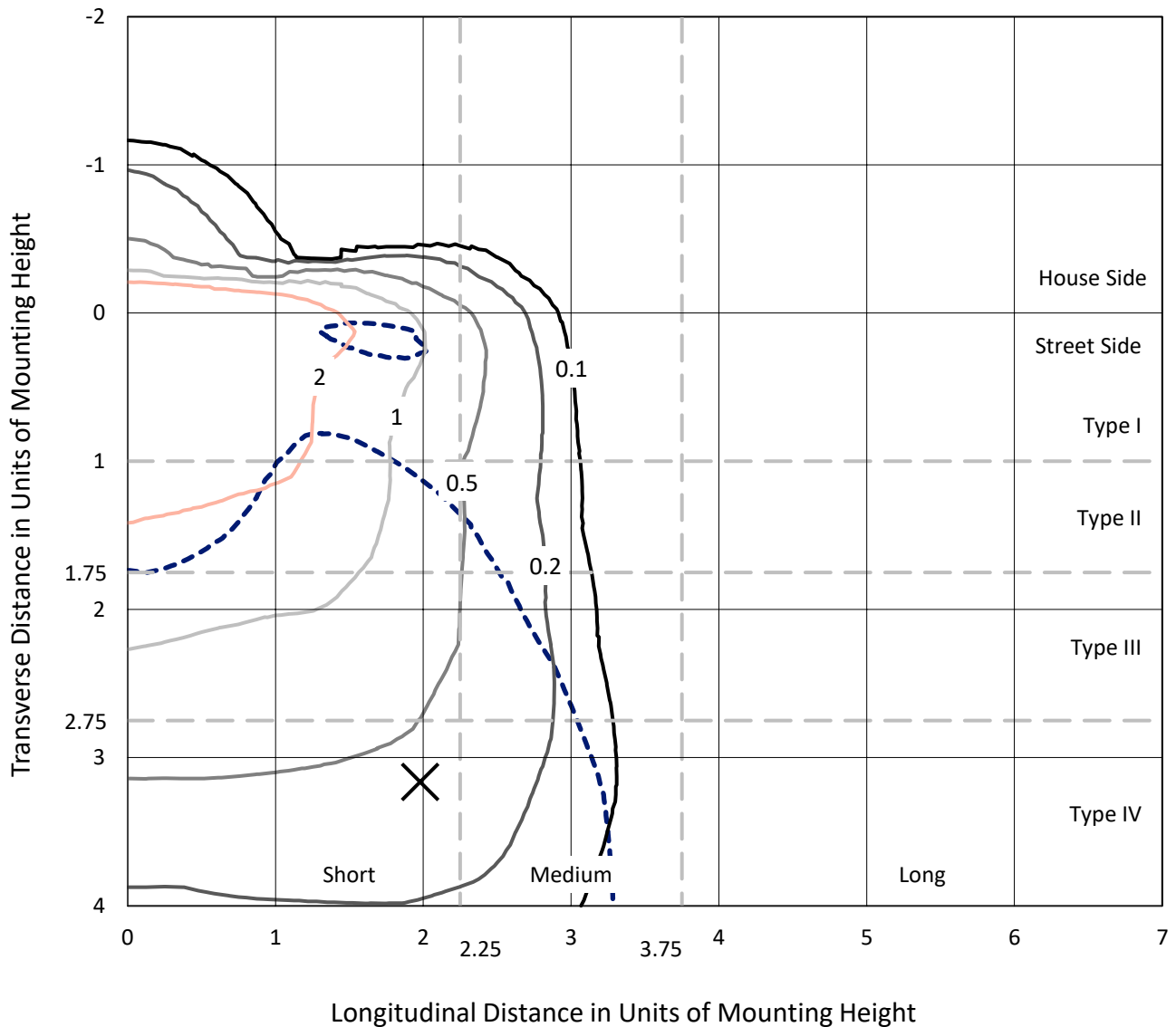
Lumens per Lamp: N/A  
Luminaire Lumens: 5898.9 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

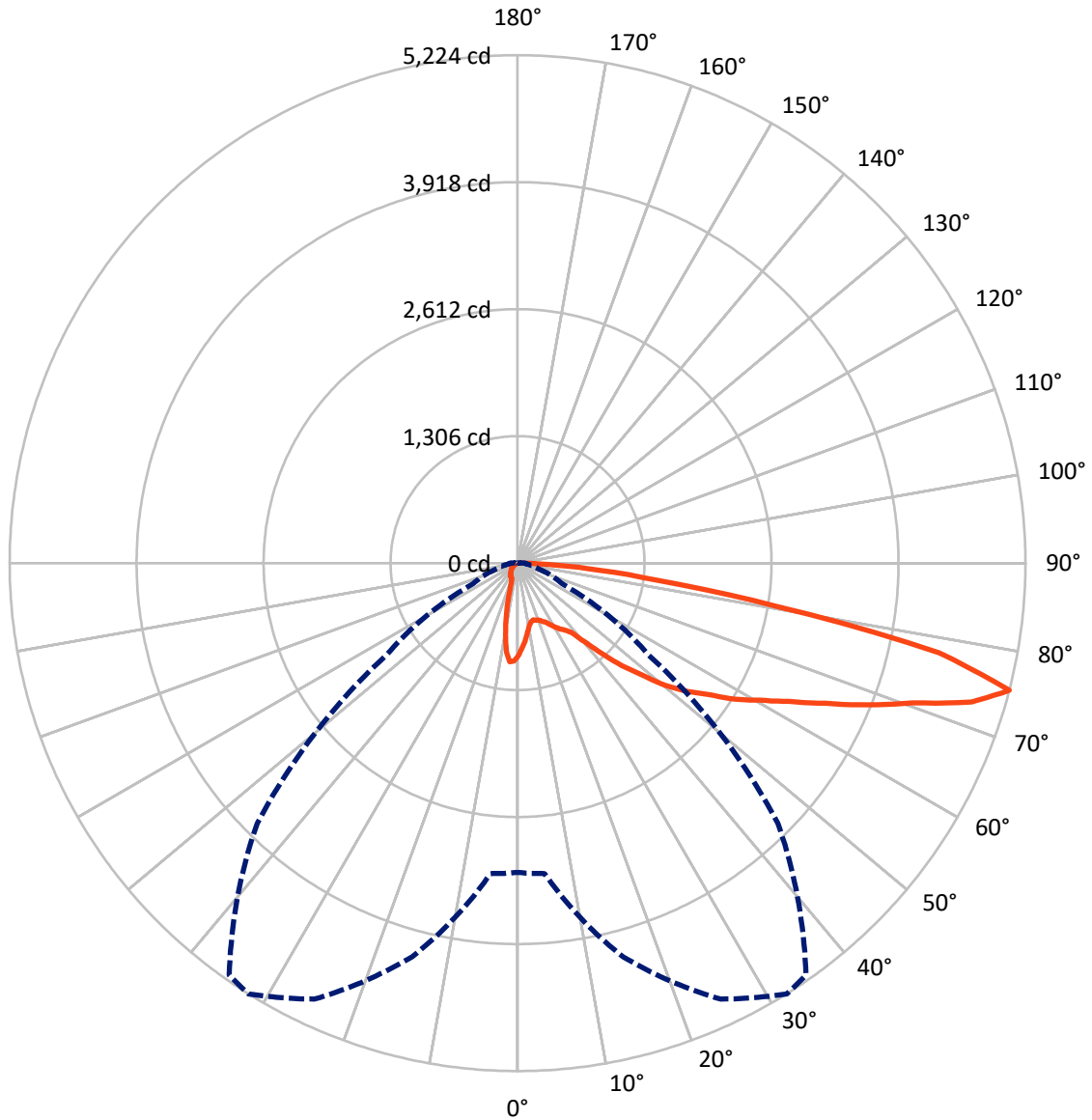
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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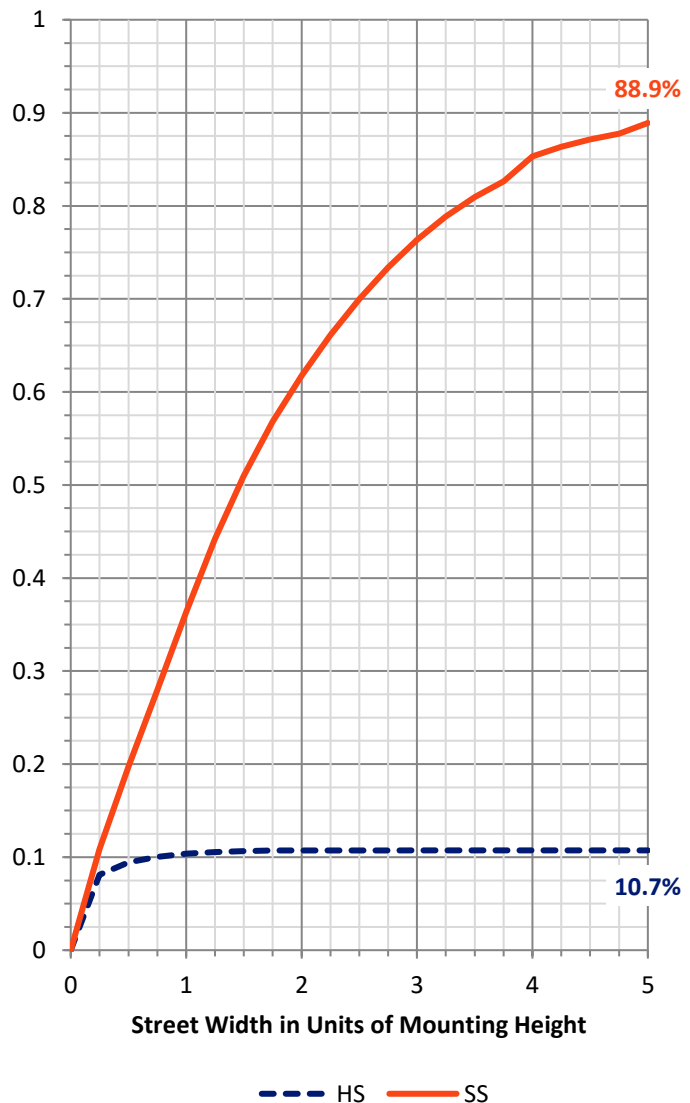
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	637.3	0.0	637.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	5261.6	0.0	5261.6
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5898.9	0.0	5898.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	1.4
10°-20°	190.0	3.2
20°-30°	284.5	4.8
30°-40°	436.8	7.4
40°-50°	763.8	12.9
50°-60°	1193.9	20.2
60°-70°	1543.5	26.2
70°-80°	1257.1	21.3
80°-90°	145.5	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°	5898.9	100.0
0°-180°	5898.9	100.0



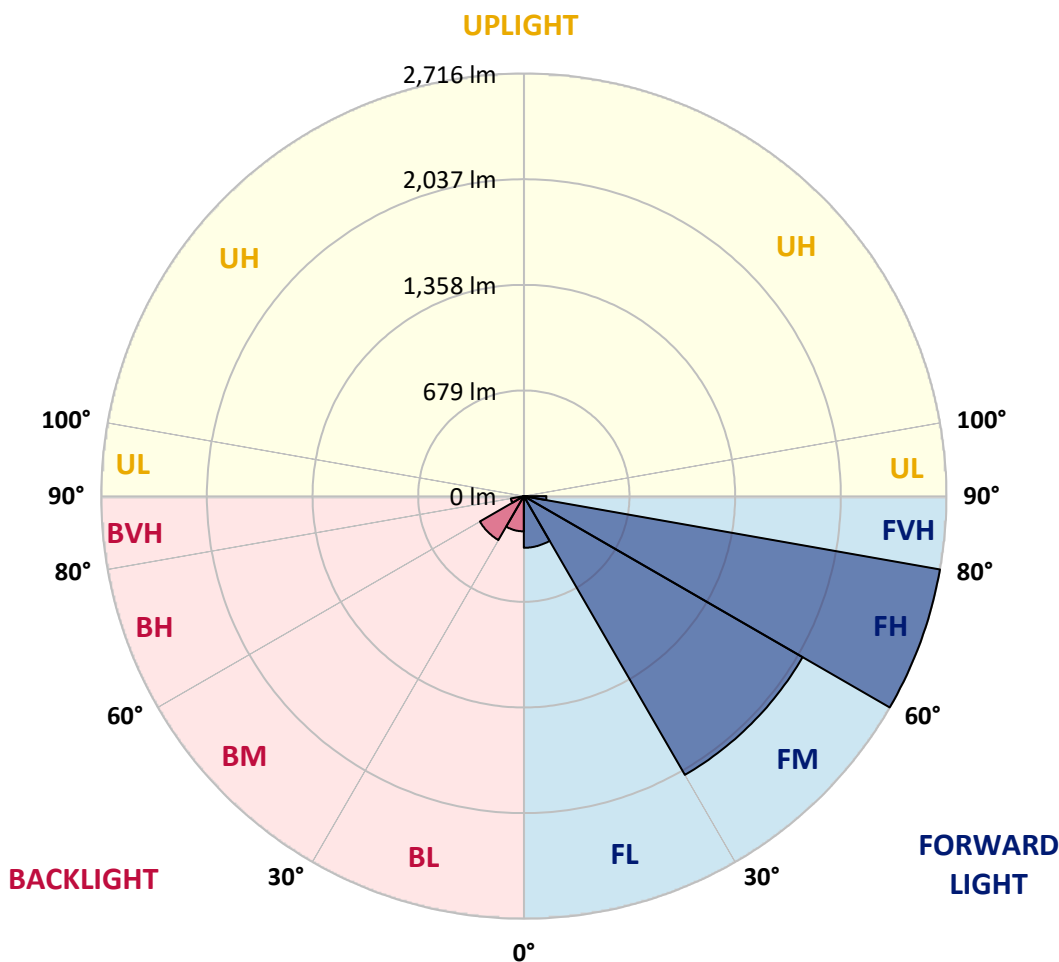
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.9	5.6			
FM (30°-60°)	2068.4	35.1			
FH (60°-80°)	2715.9	46.0			G2/5000
FVH (80°-90°)	145.4	2.5			G2/225
BL (0°-30°)	226.4	3.8	B1/500		
BM (30°-60°)	326.0	5.5	B1/1000		
BH (60°-80°)	84.8	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°	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5
2.5°	854.2	866.3	864.8	872.4	873.9	878.4	889.0	889.0	919.2	940.4	954.0
5°	777.1	769.5	772.6	781.6	804.3	802.8	828.5	842.1	878.4	908.6	940.4
7.5°	681.9	680.3	686.4	707.6	724.2	737.8	765.0	799.8	848.2	893.5	949.5
10°	621.4	618.4	630.5	636.5	656.2	665.2	707.6	762.0	819.4	884.4	949.5
12.5°	607.8	597.2	603.2	601.7	619.9	624.4	665.2	731.7	801.3	881.4	961.6
15°	615.3	607.8	601.7	601.7	606.3	609.3	653.1	712.1	790.7	886.0	988.8
17.5°	639.5	635.0	616.8	598.7	618.4	618.4	645.6	707.6	792.2	899.6	1022.0
20°	668.2	663.7	632.0	610.8	624.4	639.5	668.2	718.1	796.8	910.2	1073.4
22.5°	700.0	700.0	656.2	632.0	650.1	651.6	703.0	751.4	814.9	937.4	1106.7
25°	739.3	736.3	694.0	666.7	672.8	689.4	736.3	787.7	848.2	975.2	1168.7
27.5°	790.7	786.2	736.3	709.1	716.6	734.8	787.7	839.1	878.4	990.3	1221.6
30°	833.0	828.5	787.7	746.9	763.5	780.1	842.1	887.5	916.2	1019.0	1282.1
32.5°	842.1	834.6	807.3	789.2	807.3	839.1	887.5	934.3	978.2	1091.6	1397.0
35°	946.4	919.2	848.2	819.4	846.7	857.2	937.4	1020.5	1062.8	1149.0	1525.5
37.5°	1146.0	1120.3	1026.6	946.4	908.6	920.7	1025.1	1127.9	1168.7	1256.4	1666.1
40°	1390.9	1348.6	1248.8	1141.5	1064.4	1049.2	1117.3	1268.5	1307.8	1390.9	1850.5
42.5°	1670.6	1629.8	1475.6	1348.6	1270.0	1250.3	1260.9	1431.7	1465.0	1514.9	1971.5
45°	1871.7	1850.5	1676.7	1563.3	1501.3	1480.1	1454.4	1610.1	1652.5	1669.1	2146.9
47.5°	1988.1	1973.0	1876.2	1799.1	1716.0	1693.3	1709.9	1858.1	1829.4	1843.0	2314.7
50°	2143.8	2104.5	1973.0	1997.2	1980.6	1974.5	2003.2	2068.2	2025.9	1986.6	2497.6
52.5°	2269.3	2199.8	2107.6	2166.5	2192.2	2214.9	2316.2	2364.6	2175.6	2115.1	2615.5
55°	2346.4	2279.9	2304.1	2358.5	2385.7	2490.1	2609.5	2573.2	2273.9	2217.9	2772.8
57.5°	2416.0	2420.5	2485.5	2502.2	2641.3	2659.4	2889.2	2771.3	2343.4	2311.7	2834.8
60°	2583.8	2567.2	2620.1	2727.4	2860.5	2961.8	3181.0	2904.3	2378.2	2360.0	2818.1
62.5°	2886.2	2783.4	2801.5	2937.6	3132.6	3243.0	3348.8	2964.8	2369.1	2367.6	2768.2
65°	3270.2	3152.3	3097.8	3224.8	3477.3	3633.0	3537.8	3032.8	2308.6	2351.0	2582.3
67.5°	3589.2	3590.7	3489.4	3560.5	3890.1	3923.3	3716.2	3019.2	2207.3	2219.4	2128.7
70°	3956.6	4006.5	3917.3	4139.5	4304.3	4325.5	3920.3	2907.3	1989.6	1673.6	1223.1
72.5°	4050.3	4076.0	4354.2	4695.9	4881.9	4887.9	4121.4	2533.9	1309.3	739.3	379.5
75°	3181.0	3205.2	4190.9	4946.9	5223.5	5170.6	3785.7	1644.9	509.5	216.2	90.7
77.5°	1774.9	1782.5	2601.9	3998.9	4431.3	4218.1	2651.8	641.0	205.6	124.0	42.3
80°	485.3	570.0	964.6	1971.5	2706.3	2656.4	1262.4	208.6	133.0	96.8	19.7
82.5°	116.4	125.5	309.9	872.4	1430.2	1492.2	376.5	105.8	92.2	80.1	10.6
85°	42.3	46.9	95.2	424.8	734.8	674.3	113.4	52.9	68.0	62.0	4.5
87.5°	15.1	15.1	30.2	139.1	214.7	161.8	37.8	18.1	34.8	37.8	1.5
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°	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5
2.5°	955.5	955.5	976.7	994.8	1000.9	1008.4	1000.9	1017.5	1016.0	1008.4	1011.4
5°	957.0	984.2	1002.4	1014.5	1020.5	1019.0	1022.0	1003.9	993.3	985.7	978.2
7.5°	964.6	990.3	1023.5	1020.5	1003.9	969.1	941.9	893.5	846.7	845.1	837.6
10°	990.3	1013.0	1032.6	1020.5	960.0	854.2	768.0	703.0	644.1	616.8	619.9
12.5°	1008.4	1050.8	1041.7	979.7	854.2	715.1	588.1	492.9	440.0	390.1	390.1
15°	1046.2	1061.3	1058.3	920.7	724.2	557.9	403.7	306.9	251.0	228.3	225.3
17.5°	1082.5	1099.1	1047.7	831.5	595.7	374.9	244.9	190.5	182.9	179.9	181.4
20°	1127.9	1129.4	1038.7	742.3	447.5	237.4	175.4	170.8	172.4	170.8	170.8
22.5°	1176.2	1186.8	1006.9	616.8	297.8	172.4	163.3	164.8	164.8	164.8	169.3
25°	1239.7	1223.1	957.0	497.4	195.0	158.7	158.7	160.3	160.3	160.3	161.8
27.5°	1282.1	1259.4	893.5	358.3	152.7	149.7	152.7	152.7	155.7	155.7	155.7
30°	1369.8	1310.8	813.4	231.3	137.6	142.1	145.1	148.2	149.7	152.7	154.2
32.5°	1437.8	1356.2	713.6	154.2	125.5	128.5	136.1	142.1	148.2	146.7	146.7
35°	1561.8	1430.2	621.4	122.5	114.9	114.9	122.5	133.0	142.1	145.1	145.1
37.5°	1703.9	1490.7	492.9	111.9	105.8	105.8	110.4	122.5	134.6	140.6	137.6
40°	1821.8	1560.3	364.4	104.3	98.3	98.3	101.3	110.4	124.0	134.6	136.1
42.5°	1905.0	1611.7	246.4	96.8	92.2	90.7	95.2	99.8	110.4	125.5	128.5
45°	1980.6	1638.9	152.7	89.2	86.2	86.2	86.2	90.7	98.3	111.9	114.9
47.5°	2115.1	1669.1	110.4	83.2	78.6	80.1	81.6	83.2	89.2	92.2	93.7
50°	2228.5	1691.8	90.7	77.1	74.1	75.6	75.6	75.6	78.6	74.1	74.1
52.5°	2314.7	1669.1	77.1	71.1	68.0	69.5	68.0	68.0	65.0	59.0	59.0
55°	2378.2	1628.3	62.0	65.0	65.0	65.0	62.0	57.5	51.4	46.9	46.9
57.5°	2394.8	1558.7	48.4	54.4	59.0	59.0	52.9	46.9	39.3	34.8	33.3
60°	2369.1	1407.6	36.3	39.3	45.4	46.9	42.3	34.8	27.2	22.7	22.7
62.5°	2276.9	1288.1	28.7	25.7	33.3	34.8	30.2	22.7	15.1	10.6	9.1
65°	2101.5	1103.7	21.2	18.1	22.7	24.2	19.7	10.6	4.5	1.5	0.0
67.5°	1685.7	831.5	13.6	12.1	15.1	15.1	9.1	3.0	0.0	0.0	0.0
70°	932.8	467.2	9.1	6.0	7.6	4.5	1.5	0.0	0.0	0.0	0.0
72.5°	269.1	133.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	72.6	31.7	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.7	12.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)