

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: P676624

Luminaire Tested: **CCW-SA-2B-835-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676624  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

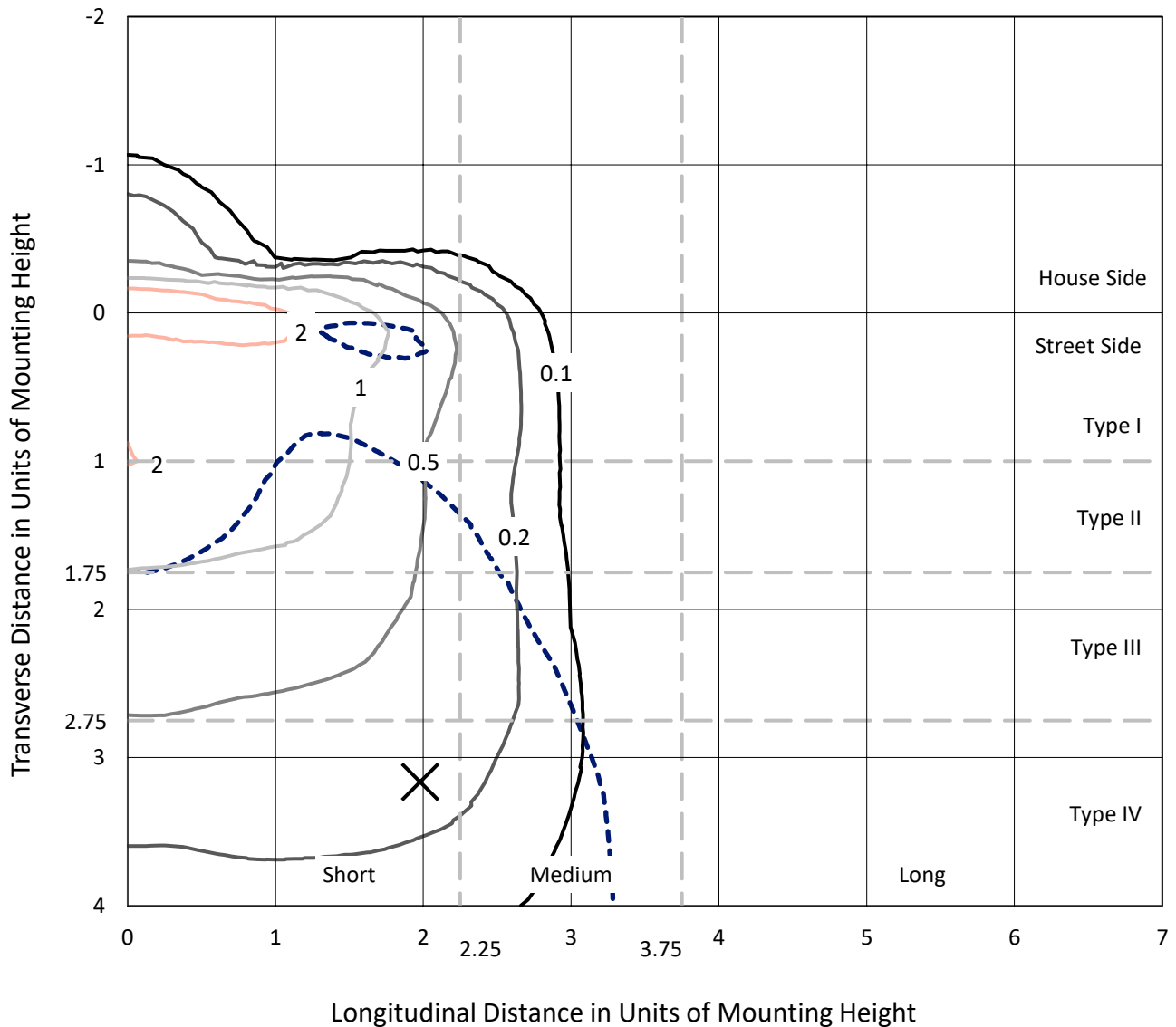
Lumens per Lamp: N/A  
Luminaire Lumens: 4086.2 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

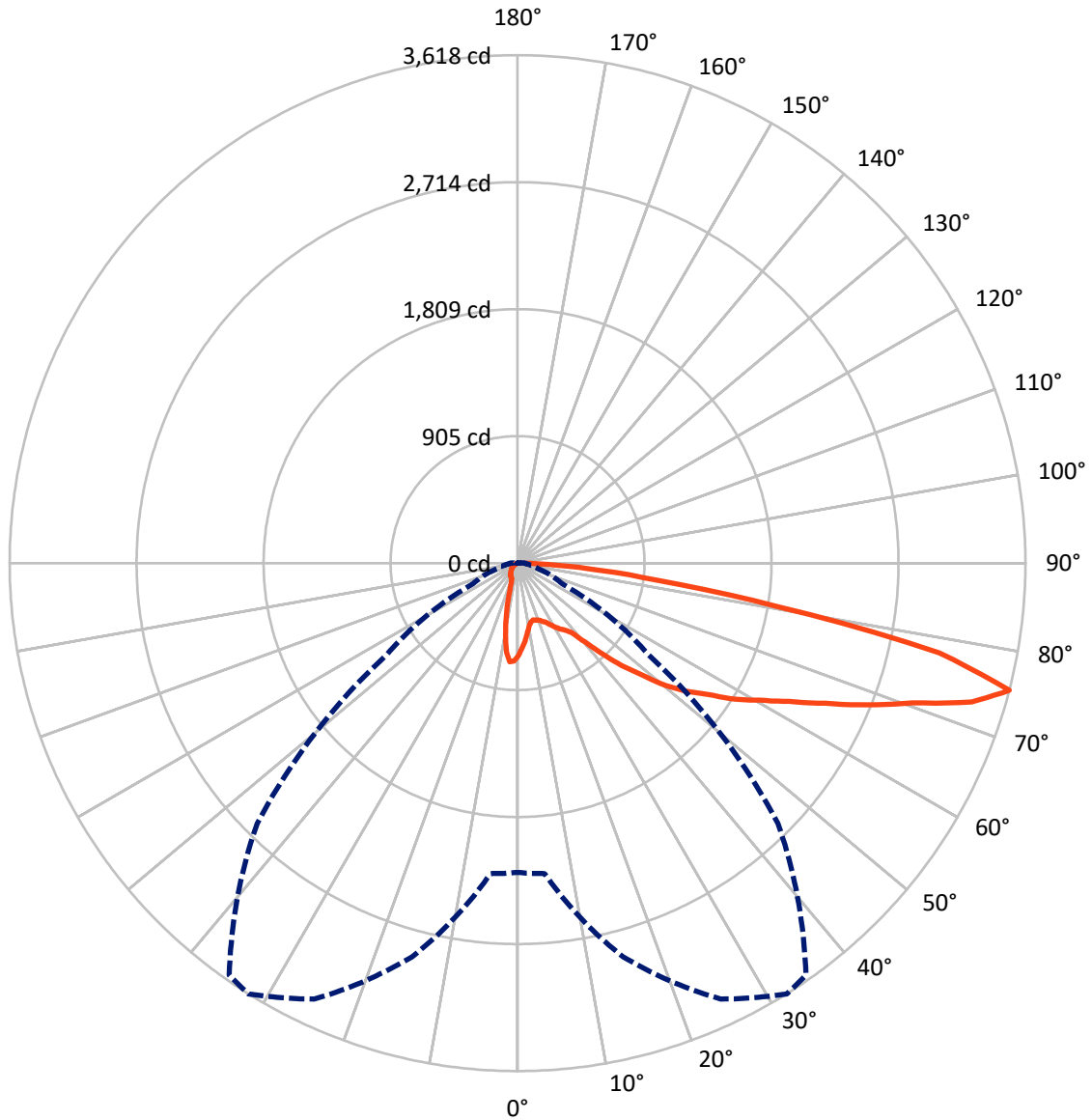
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 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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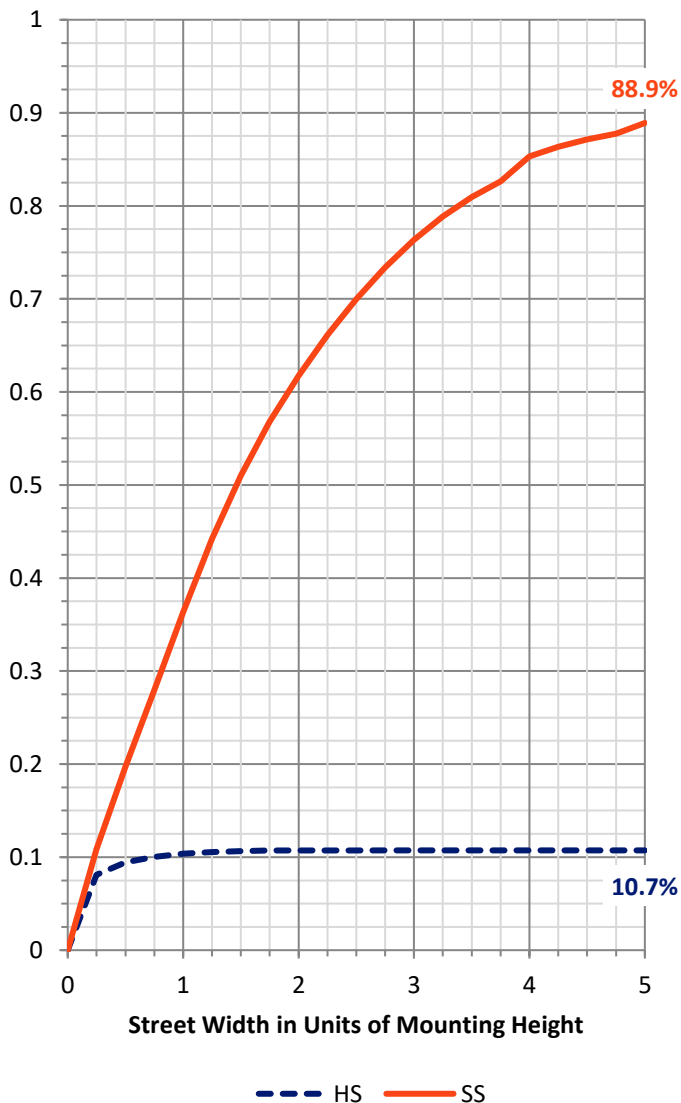
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	441.4	0.0	441.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3644.8	0.0	3644.8
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4086.2	0.0	4086.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	1.4
10°-20°	131.6	3.2
20°-30°	197.1	4.8
30°-40°	302.5	7.4
40°-50°	529.1	12.9
50°-60°	827.0	20.2
60°-70°	1069.2	26.2
70°-80°	870.8	21.3
80°-90°	100.8	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°	4086.2	100.0
0°-180°	4086.2	100.0



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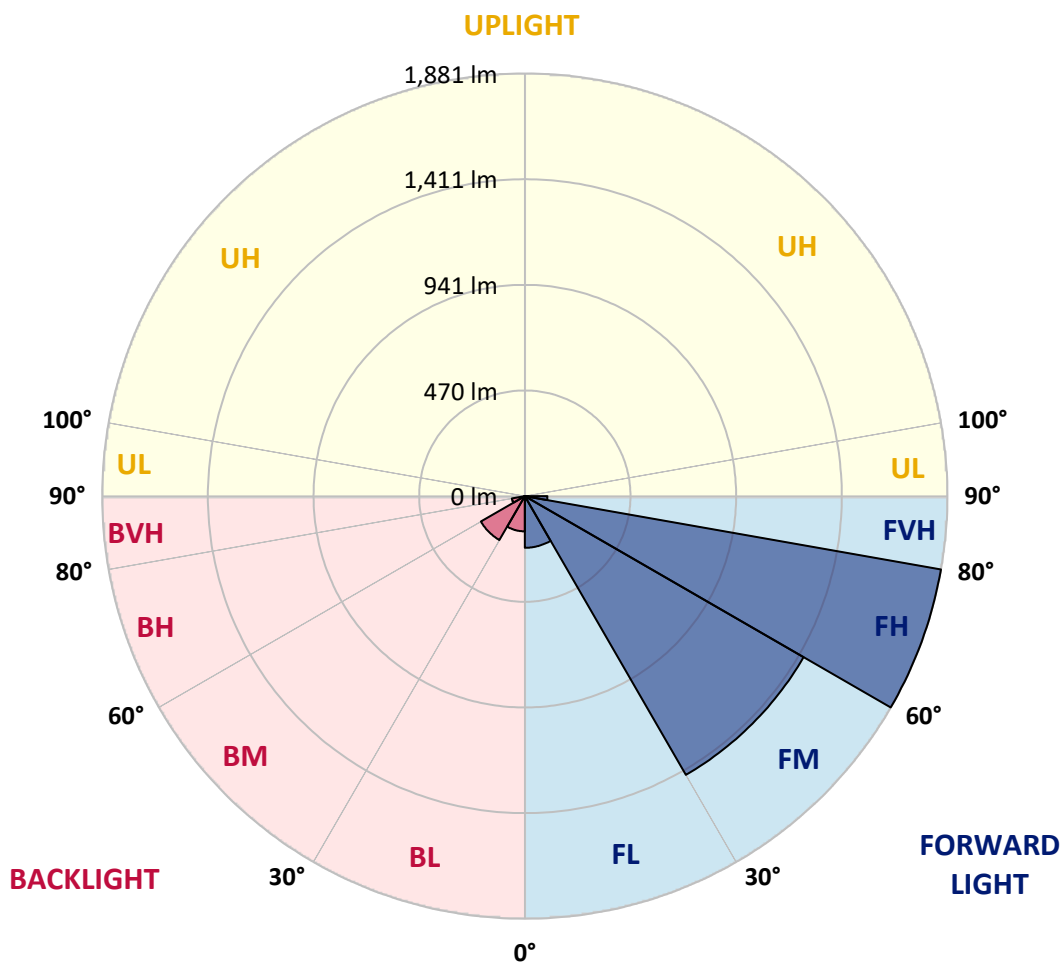
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.9	5.6			
FM (30°-60°)	1432.8	35.1			
FH (60°-80°)	1881.3	46.0			G2/5000
FVH (80°-90°)	100.7	2.5			G2/225
BL (0°-30°)	156.8	3.8	B1/500		
BM (30°-60°)	225.8	5.5	B1/1000		
BH (60°-80°)	58.7	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°	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8
2.5°	591.7	600.1	599.1	604.3	605.3	608.5	615.8	615.8	636.8	651.4	660.8
5°	538.3	533.1	535.2	541.5	557.2	556.1	573.9	583.3	608.5	629.4	651.4
7.5°	472.3	471.3	475.5	490.1	501.7	511.1	529.9	554.0	587.5	619.0	657.7
10°	430.4	428.3	436.7	440.9	454.5	460.8	490.1	527.8	567.6	612.7	657.7
12.5°	421.0	413.7	417.9	416.8	429.4	432.5	460.8	506.9	555.1	610.6	666.1
15°	426.2	421.0	416.8	416.8	420.0	422.1	452.4	493.3	547.7	613.7	684.9
17.5°	443.0	439.9	427.3	414.7	428.3	428.3	447.2	490.1	548.8	623.1	708.0
20°	462.9	459.8	437.8	423.1	432.5	443.0	462.9	497.5	551.9	630.5	743.6
22.5°	484.9	484.9	454.5	437.8	450.3	451.4	487.0	520.5	564.5	649.3	766.6
25°	512.1	510.0	480.7	461.9	466.0	477.6	510.0	545.6	587.5	675.5	809.6
27.5°	547.7	544.6	510.0	491.2	496.4	509.0	545.6	581.2	608.5	686.0	846.2
30°	577.1	573.9	545.6	517.4	528.9	540.4	583.3	614.8	634.7	705.9	888.1
32.5°	583.3	578.1	559.3	546.7	559.3	581.2	614.8	647.2	677.6	756.1	967.7
35°	655.6	636.8	587.5	567.6	586.5	593.8	649.3	706.9	736.2	795.9	1056.7
37.5°	793.8	776.0	711.1	655.6	629.4	637.8	710.1	781.3	809.6	870.3	1154.1
40°	963.5	934.2	865.1	790.7	737.3	726.8	773.9	878.7	905.9	963.5	1281.9
42.5°	1157.3	1129.0	1022.2	934.2	879.7	866.1	873.4	991.8	1014.8	1049.4	1365.7
45°	1296.5	1281.9	1161.4	1082.9	1040.0	1025.3	1007.5	1115.4	1144.7	1156.2	1487.2
47.5°	1377.2	1366.7	1299.7	1246.3	1188.7	1173.0	1184.5	1287.1	1267.2	1276.7	1603.4
50°	1485.1	1457.8	1366.7	1383.5	1372.0	1367.8	1387.7	1432.7	1403.4	1376.1	1730.1
52.5°	1572.0	1523.8	1459.9	1500.8	1518.6	1534.3	1604.5	1638.0	1507.1	1465.2	1811.8
55°	1625.4	1579.3	1596.1	1633.8	1652.6	1724.9	1807.6	1782.5	1575.1	1536.4	1920.7
57.5°	1673.6	1676.7	1721.8	1733.3	1829.6	1842.2	2001.4	1919.7	1623.3	1601.3	1963.7
60°	1789.8	1778.3	1815.0	1889.3	1981.5	2051.6	2203.5	2011.9	1647.4	1634.8	1952.2
62.5°	1999.3	1928.1	1940.6	2034.9	2170.0	2246.4	2319.8	2053.7	1641.1	1640.1	1917.6
65°	2265.3	2183.6	2145.9	2233.9	2408.8	2516.6	2450.7	2100.9	1599.2	1628.5	1788.8
67.5°	2486.3	2487.3	2417.2	2466.4	2694.7	2717.7	2574.2	2091.4	1529.0	1537.4	1474.6
70°	2740.8	2775.3	2713.5	2867.5	2981.6	2996.3	2715.6	2013.9	1378.2	1159.4	847.3
72.5°	2805.7	2823.5	3016.2	3252.9	3381.7	3385.9	2854.9	1755.3	907.0	512.1	262.9
75°	2203.5	2220.3	2903.1	3426.7	3618.4	3581.7	2622.4	1139.5	352.9	149.8	62.8
77.5°	1229.5	1234.8	1802.4	2770.1	3069.6	2921.9	1837.0	444.1	142.4	85.9	29.3
80°	336.2	394.8	668.2	1365.7	1874.7	1840.1	874.5	144.5	92.2	67.0	13.6
82.5°	80.6	86.9	214.7	604.3	990.7	1033.7	260.8	73.3	63.9	55.5	7.3
85°	29.3	32.5	66.0	294.3	509.0	467.1	78.5	36.7	47.1	42.9	3.1
87.5°	10.5	10.5	20.9	96.4	148.7	112.1	26.2	12.6	24.1	26.2	1.0
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°	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.8
2.5°	661.9	661.9	676.6	689.1	693.3	698.5	693.3	704.8	703.8	698.5	700.6
5°	662.9	681.8	694.4	702.7	706.9	705.9	708.0	695.4	688.1	682.8	677.6
7.5°	668.2	686.0	709.0	706.9	695.4	671.3	652.5	619.0	586.5	585.4	580.2
10°	686.0	701.7	715.3	706.9	665.0	591.7	532.0	487.0	446.1	427.3	429.4
12.5°	698.5	727.9	721.6	678.6	591.7	495.4	407.4	341.4	304.8	270.2	270.2
15°	724.7	735.2	733.1	637.8	501.7	386.5	279.6	212.6	173.9	158.1	156.0
17.5°	749.9	761.4	725.8	576.0	412.6	259.7	169.7	132.0	126.7	124.6	125.7
20°	781.3	782.3	719.5	514.2	310.0	164.4	121.5	118.3	119.4	118.3	118.3
22.5°	814.8	822.1	697.5	427.3	206.3	119.4	113.1	114.2	114.2	114.2	117.3
25°	858.8	847.3	662.9	344.6	135.1	110.0	110.0	111.0	111.0	111.0	112.1
27.5°	888.1	872.4	619.0	248.2	105.8	103.7	105.8	105.8	107.9	107.9	107.9
30°	948.8	908.0	563.4	160.2	95.3	98.4	100.5	102.6	103.7	105.8	106.8
32.5°	996.0	939.4	494.3	106.8	86.9	89.0	94.3	98.4	102.6	101.6	101.6
35°	1081.9	990.7	430.4	84.8	79.6	79.6	84.8	92.2	98.4	100.5	100.5
37.5°	1180.3	1032.6	341.4	77.5	73.3	73.3	76.5	84.8	93.2	97.4	95.3
40°	1262.0	1080.8	252.4	72.3	68.1	68.1	70.2	76.5	85.9	93.2	94.3
42.5°	1319.6	1116.4	170.7	67.0	63.9	62.8	66.0	69.1	76.5	86.9	89.0
45°	1372.0	1135.3	105.8	61.8	59.7	59.7	59.7	62.8	68.1	77.5	79.6
47.5°	1465.2	1156.2	76.5	57.6	54.5	55.5	56.6	57.6	61.8	63.9	64.9
50°	1543.7	1171.9	62.8	53.4	51.3	52.4	52.4	52.4	54.5	51.3	51.3
52.5°	1603.4	1156.2	53.4	49.2	47.1	48.2	47.1	47.1	45.0	40.8	40.8
55°	1647.4	1127.9	42.9	45.0	45.0	45.0	42.9	39.8	35.6	32.5	32.5
57.5°	1658.9	1079.8	33.5	37.7	40.8	40.8	36.7	32.5	27.2	24.1	23.0
60°	1641.1	975.0	25.1	27.2	31.4	32.5	29.3	24.1	18.9	15.7	15.7
62.5°	1577.2	892.3	19.9	17.8	23.0	24.1	20.9	15.7	10.5	7.3	6.3
65°	1455.7	764.5	14.7	12.6	15.7	16.8	13.6	7.3	3.1	1.0	0.0
67.5°	1167.7	576.0	9.4	8.4	10.5	10.5	6.3	2.1	0.0	0.0	0.0
70°	646.2	323.6	6.3	4.2	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	186.4	92.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	50.3	22.0	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.0	8.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)