

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: P676591

Luminaire Tested: **CCW-SA-2B-760-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676591  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-760-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) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

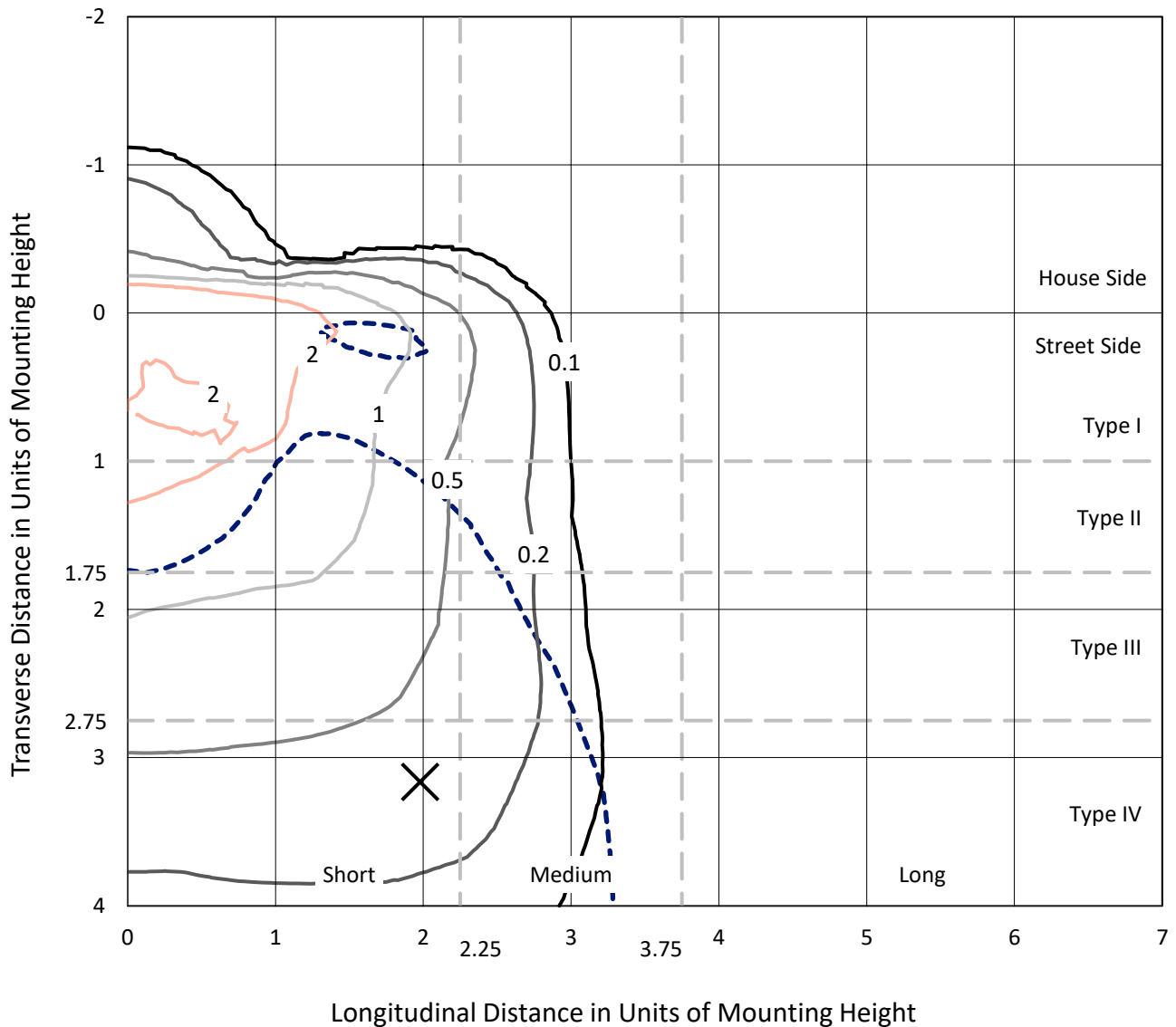
Lumens per Lamp: N/A  
Luminaire Lumens: 5072.5 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

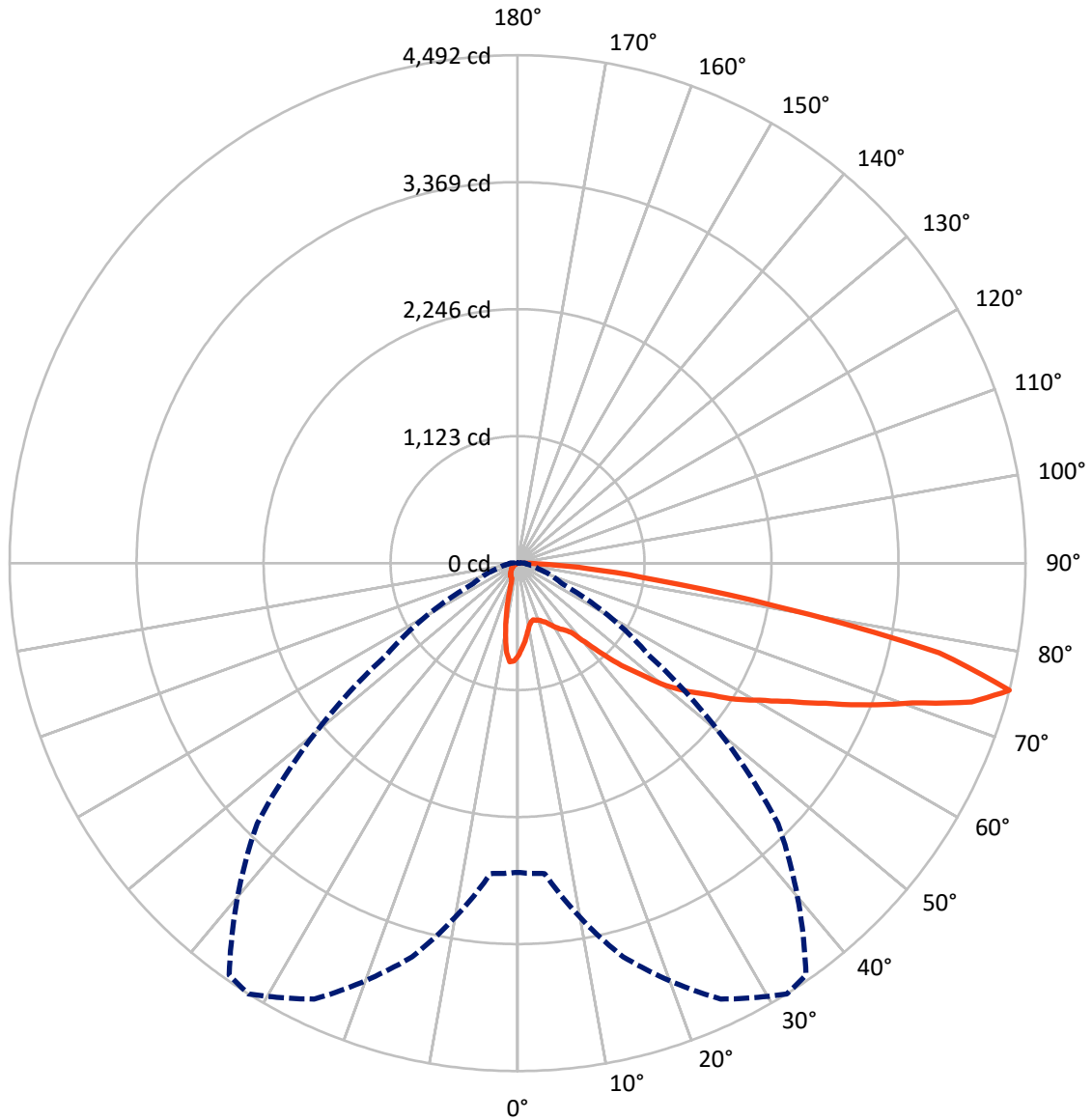
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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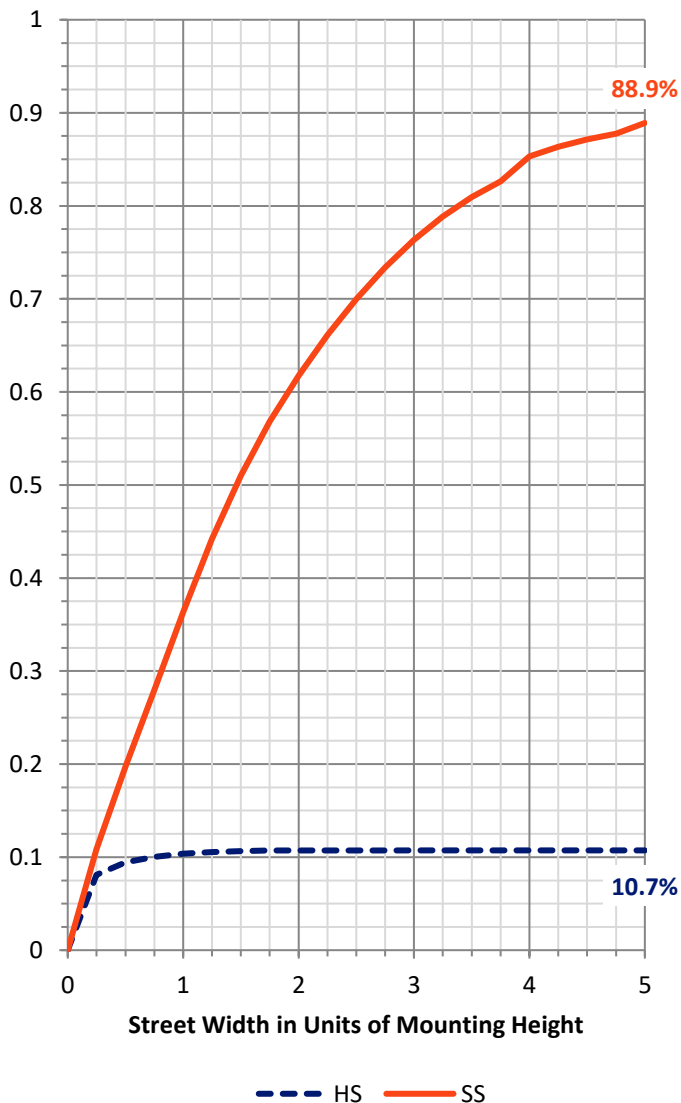
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	548.0	0.0	548.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	4524.5	0.0	4524.5
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	5072.5	0.0	5072.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	1.4
10°-20°	163.4	3.2
20°-30°	244.7	4.8
30°-40°	375.6	7.4
40°-50°	656.8	12.9
50°-60°	1026.6	20.2
60°-70°	1327.3	26.2
70°-80°	1081.0	21.3
80°-90°	125.1	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°	5072.5	100.0
0°-180°	5072.5	100.0



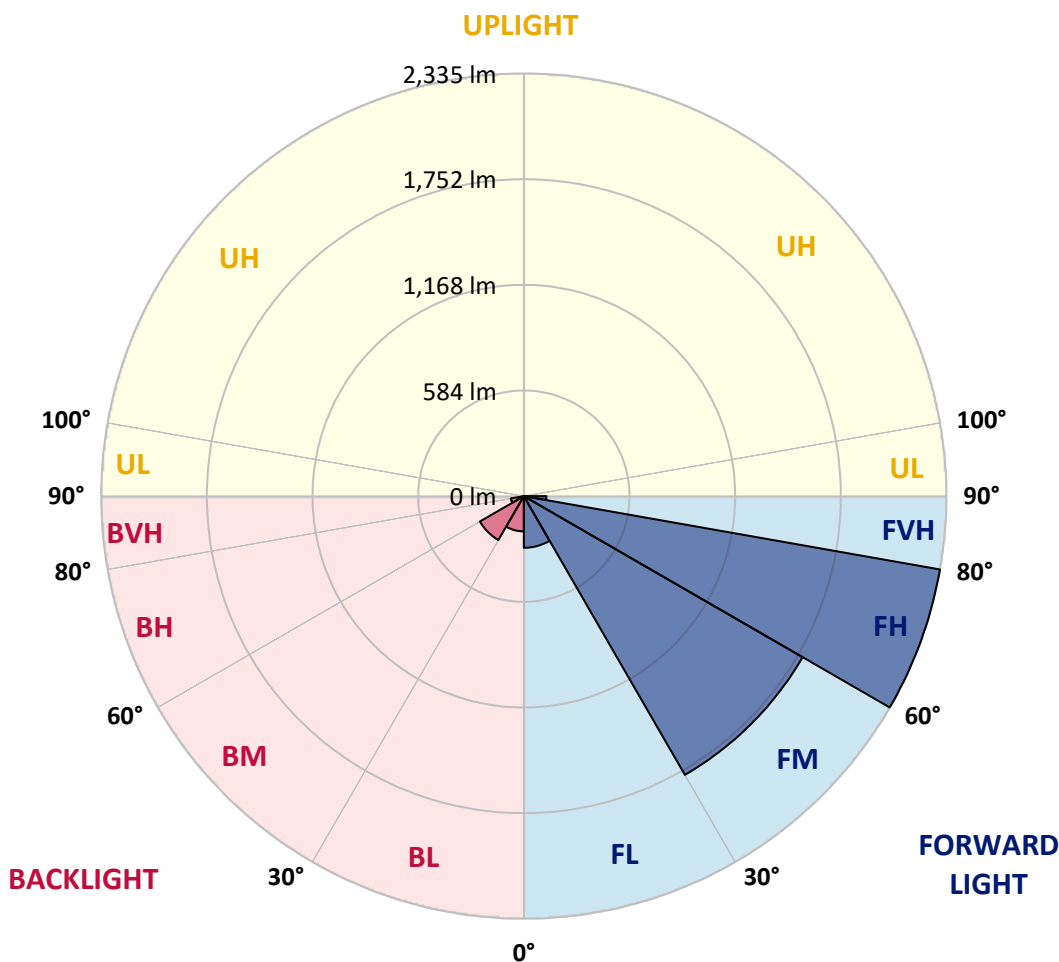
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	285.4	5.6			
FM (30°-60°)	1778.7	35.1			
FH (60°-80°)	2335.4	46.0			G2/5000
FVH (80°-90°)	125.0	2.5			G2/225
BL (0°-30°)	194.7	3.8	B1/500		
BM (30°-60°)	280.3	5.5	B1/1000		
BH (60°-80°)	72.9	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°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	734.6	745.0	743.7	750.2	751.5	755.4	764.5	764.5	790.5	808.7	820.4
5°	668.2	661.7	664.3	672.1	691.6	690.3	712.5	724.2	755.4	781.4	808.7
7.5°	586.3	585.0	590.2	608.4	622.7	634.4	657.8	687.7	729.4	768.4	816.5
10°	534.3	531.7	542.1	547.3	564.2	572.0	608.4	655.2	704.7	760.6	816.5
12.5°	522.6	513.5	518.7	517.4	533.0	536.9	572.0	629.2	689.0	758.0	826.9
15°	529.1	522.6	517.4	517.4	521.3	523.9	561.6	612.3	679.9	761.9	850.3
17.5°	549.9	546.0	530.4	514.8	531.7	531.7	555.1	608.4	681.2	773.6	878.9
20°	574.6	570.7	543.4	525.2	536.9	549.9	574.6	617.5	685.1	782.7	923.1
22.5°	601.9	601.9	564.2	543.4	559.0	560.3	604.5	646.1	700.7	806.1	951.7
25°	635.7	633.1	596.7	573.3	578.5	592.8	633.1	677.3	729.4	838.6	1005.0
27.5°	679.9	676.0	633.1	609.7	616.2	631.8	677.3	721.6	755.4	851.6	1050.5
30°	716.4	712.5	677.3	642.2	656.5	670.8	724.2	763.2	787.9	876.3	1102.5
32.5°	724.2	717.7	694.2	678.6	694.2	721.6	763.2	803.5	841.2	938.7	1201.3
35°	813.9	790.5	729.4	704.7	728.1	737.2	806.1	877.6	914.0	988.1	1311.8
37.5°	985.5	963.4	882.8	813.9	781.4	791.8	881.5	969.9	1005.0	1080.4	1432.7
40°	1196.1	1159.7	1073.9	981.6	915.3	902.3	960.8	1090.8	1124.6	1196.1	1591.3
42.5°	1436.6	1401.5	1268.9	1159.7	1092.1	1075.2	1084.3	1231.2	1259.8	1302.7	1695.3
45°	1609.5	1591.3	1441.8	1344.3	1291.0	1272.8	1250.7	1384.6	1421.0	1435.3	1846.1
47.5°	1709.6	1696.6	1613.4	1547.1	1475.6	1456.1	1470.4	1597.8	1573.1	1584.8	1990.4
50°	1843.5	1809.7	1696.6	1717.4	1703.1	1697.9	1722.6	1778.5	1742.1	1708.3	2147.8
52.5°	1951.4	1891.6	1812.3	1863.0	1885.1	1904.6	1991.7	2033.3	1870.8	1818.8	2249.2
55°	2017.7	1960.5	1981.3	2028.1	2051.5	2141.3	2244.0	2212.8	1955.3	1907.2	2384.4
57.5°	2077.5	2081.4	2137.4	2151.7	2271.3	2286.9	2484.5	2383.1	2015.1	1987.8	2437.7
60°	2221.9	2207.6	2253.1	2345.4	2459.8	2546.9	2735.4	2497.5	2045.0	2029.4	2423.4
62.5°	2481.9	2393.5	2409.1	2526.1	2693.8	2788.7	2879.7	2549.5	2037.2	2035.9	2380.5
65°	2812.1	2710.7	2663.9	2773.1	2990.2	3124.1	3042.2	2608.0	1985.2	2021.6	2220.6
67.5°	3086.4	3087.7	3000.6	3061.7	3345.1	3373.7	3195.6	2596.3	1898.1	1908.5	1830.5
70°	3402.3	3445.2	3368.5	3559.7	3701.4	3719.6	3371.1	2500.1	1710.9	1439.2	1051.8
72.5°	3482.9	3505.0	3744.3	4038.1	4198.0	4203.2	3544.1	2179.0	1125.9	635.7	326.3
75°	2735.4	2756.2	3603.9	4253.9	4491.8	4446.3	3255.4	1414.5	438.1	185.9	78.0
77.5°	1526.3	1532.8	2237.5	3438.7	3810.6	3627.3	2280.4	551.2	176.8	106.6	36.4
80°	417.3	490.1	829.5	1695.3	2327.2	2284.3	1085.6	179.4	114.4	83.2	16.9
82.5°	100.1	107.9	266.5	750.2	1229.9	1283.2	323.7	91.0	79.3	68.9	9.1
85°	36.4	40.3	81.9	365.3	631.8	579.8	97.5	45.5	58.5	53.3	3.9
87.5°	13.0	13.0	26.0	119.6	184.6	139.1	32.5	15.6	29.9	32.5	1.3
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°	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1	819.1
2.5°	821.7	821.7	839.9	855.5	860.7	867.2	860.7	875.0	873.7	867.2	869.8
5°	823.0	846.4	862.0	872.4	877.6	876.3	878.9	863.3	854.2	847.7	841.2
7.5°	829.5	851.6	880.2	877.6	863.3	833.4	810.0	768.4	728.1	726.8	720.3
10°	851.6	871.1	888.0	877.6	825.6	734.6	660.4	604.5	553.8	530.4	533.0
12.5°	867.2	903.6	895.8	842.5	734.6	614.9	505.7	423.8	378.3	335.4	335.4
15°	899.7	912.7	910.1	791.8	622.7	479.7	347.1	263.9	215.8	196.3	193.7
17.5°	930.9	945.2	901.0	715.1	512.2	322.4	210.6	163.8	157.3	154.7	156.0
20°	969.9	971.2	893.2	638.3	384.8	204.1	150.8	146.9	148.2	146.9	146.9
22.5°	1011.5	1020.6	865.9	530.4	256.1	148.2	140.4	141.7	141.7	141.7	145.6
25°	1066.1	1051.8	823.0	427.7	167.7	136.5	136.5	137.8	137.8	137.8	139.1
27.5°	1102.5	1083.0	768.4	308.1	131.3	128.7	131.3	131.3	133.9	133.9	133.9
30°	1177.9	1127.2	699.4	198.9	118.3	122.2	124.8	127.4	128.7	131.3	132.6
32.5°	1236.4	1166.2	613.6	132.6	107.9	110.5	117.0	122.2	127.4	126.1	126.1
35°	1343.0	1229.9	534.3	105.3	98.8	98.8	105.3	114.4	122.2	124.8	124.8
37.5°	1465.2	1281.9	423.8	96.2	91.0	91.0	94.9	105.3	115.7	120.9	118.3
40°	1566.6	1341.7	313.3	89.7	84.5	84.5	87.1	94.9	106.6	115.7	117.0
42.5°	1638.1	1385.9	211.9	83.2	79.3	78.0	81.9	85.8	94.9	107.9	110.5
45°	1703.1	1409.3	131.3	76.7	74.1	74.1	74.1	78.0	84.5	96.2	98.8
47.5°	1818.8	1435.3	94.9	71.5	67.6	68.9	70.2	71.5	76.7	79.3	80.6
50°	1916.3	1454.8	78.0	66.3	63.7	65.0	65.0	65.0	67.6	63.7	63.7
52.5°	1990.4	1435.3	66.3	61.1	58.5	59.8	58.5	58.5	55.9	50.7	50.7
55°	2045.0	1400.2	53.3	55.9	55.9	55.9	53.3	49.4	44.2	40.3	40.3
57.5°	2059.3	1340.4	41.6	46.8	50.7	50.7	45.5	40.3	33.8	29.9	28.6
60°	2037.2	1210.4	31.2	33.8	39.0	40.3	36.4	29.9	23.4	19.5	19.5
62.5°	1957.9	1107.7	24.7	22.1	28.6	29.9	26.0	19.5	13.0	9.1	7.8
65°	1807.1	949.1	18.2	15.6	19.5	20.8	16.9	9.1	3.9	1.3	0.0
67.5°	1449.6	715.1	11.7	10.4	13.0	13.0	7.8	2.6	0.0	0.0	0.0
70°	802.2	401.7	7.8	5.2	6.5	3.9	1.3	0.0	0.0	0.0	0.0
72.5°	231.4	114.4	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	62.4	27.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.3	10.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)