

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: P675162

Luminaire Tested: **CCW-SA-2B-827-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675162  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4FT distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

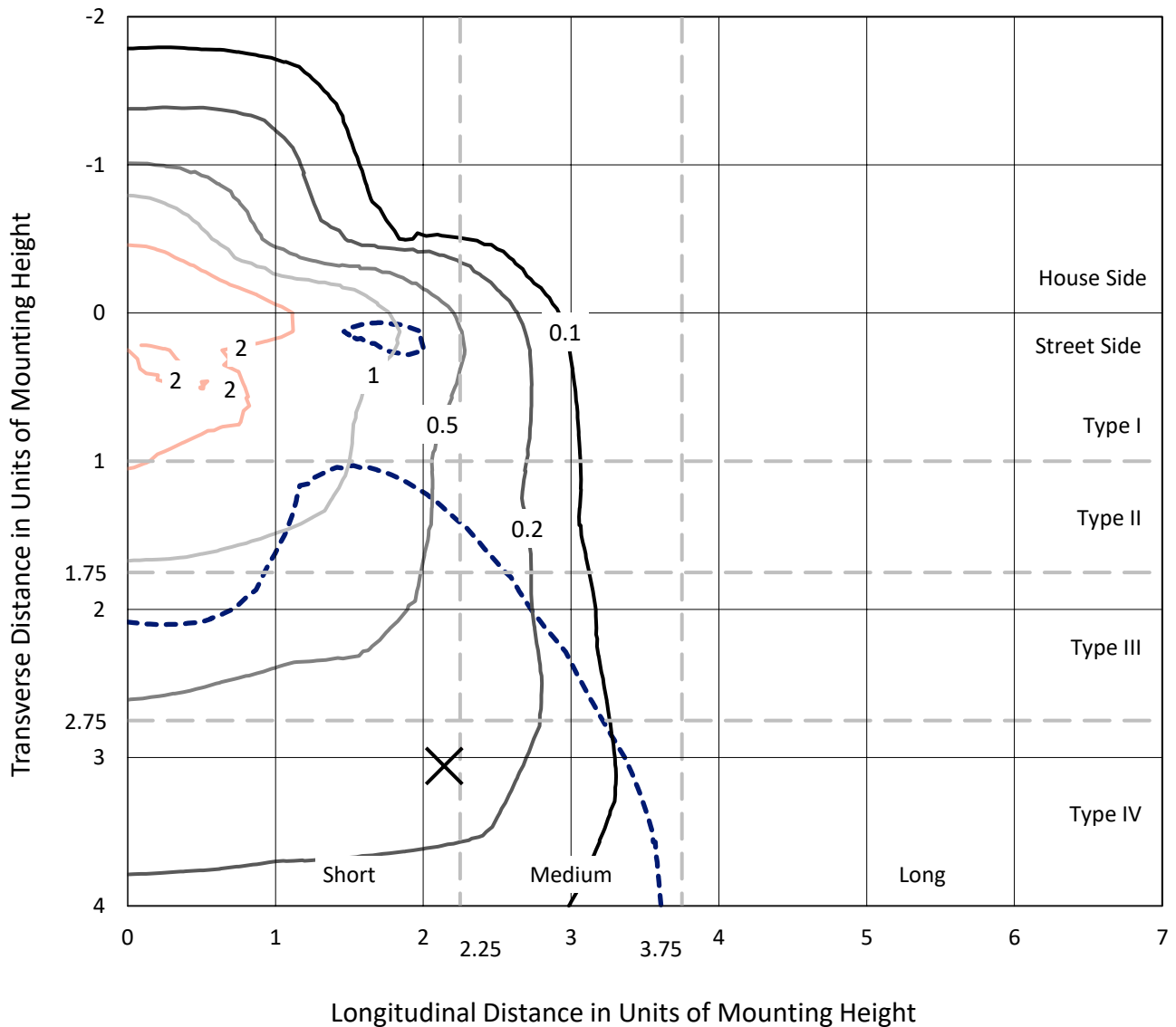
Lumens per Lamp: N/A  
Luminaire Lumens: 5073.6 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

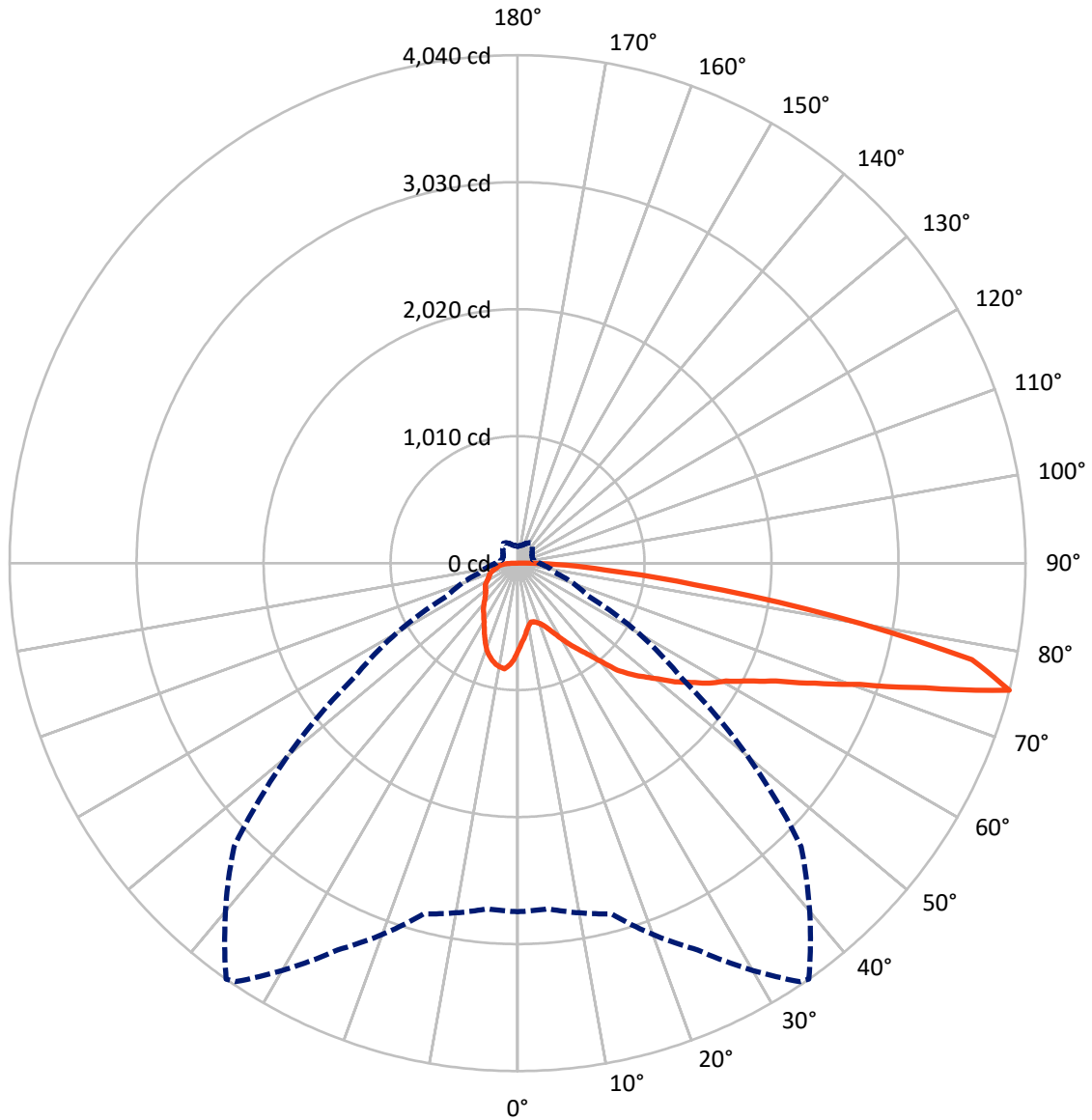
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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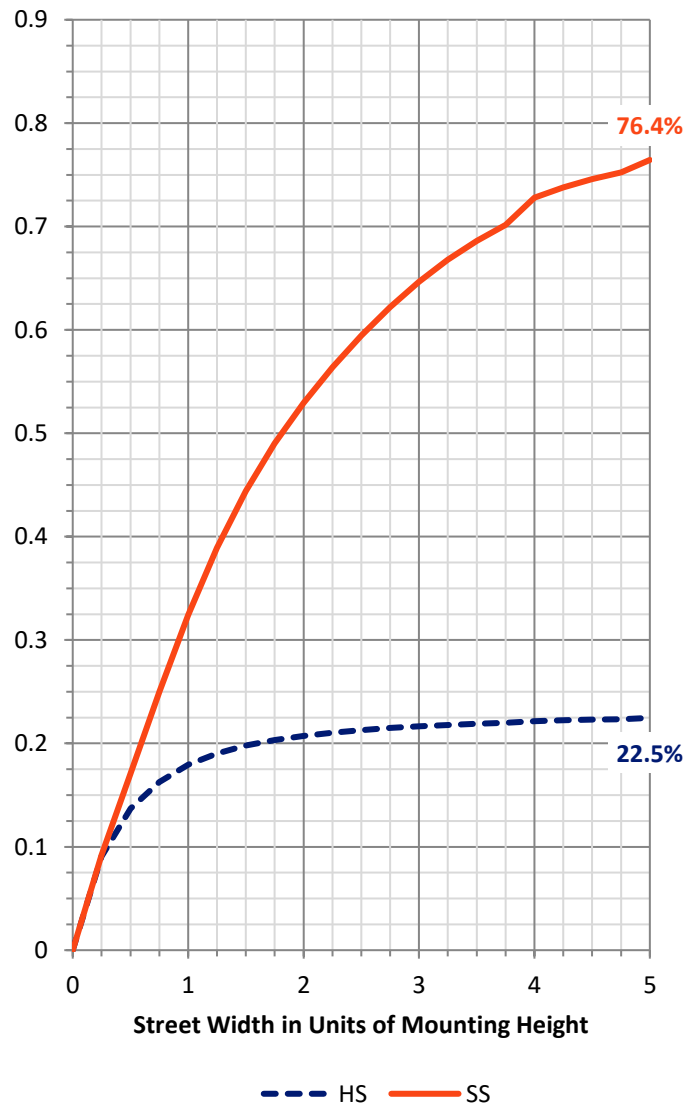
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1166.1	0.0	1166.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3907.6	0.0	3907.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5073.6	0.0	5073.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	1.3
10°-20°	192.2	3.8
20°-30°	319.0	6.3
30°-40°	472.8	9.3
40°-50°	681.8	13.4
50°-60°	937.5	18.5
60°-70°	1158.1	22.8
70°-80°	1059.5	20.9
80°-90°	186.5	3.7
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°	5073.6	100.0
0°-180°	5073.6	100.0



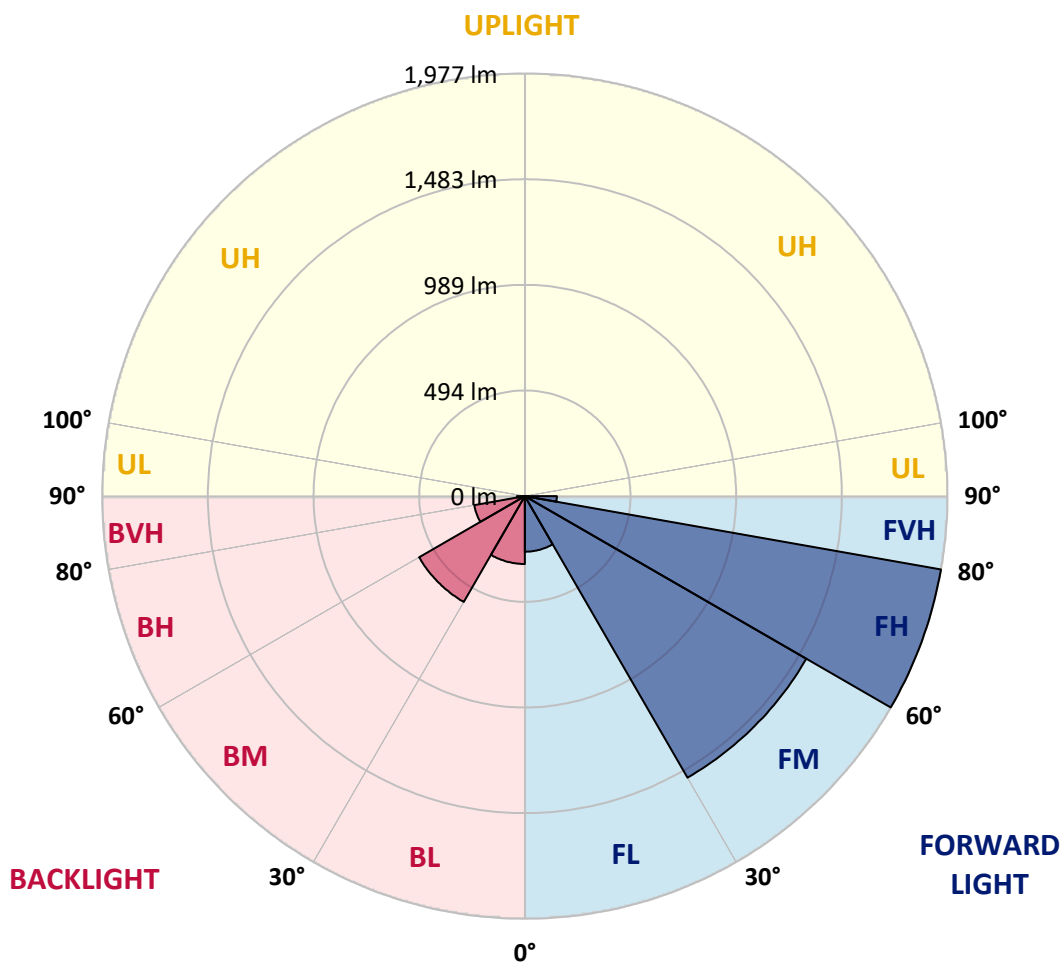
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.1	5.1			
FM (30°-60°)	1520.8	30.0			
FH (60°-80°)	1977.1	39.0			G2/5000
FVH (80°-90°)	149.7	3.0			G2/225
BL (0°-30°)	317.4	6.3	B1/500		
BM (30°-60°)	571.4	11.3	B1/1000		
BH (60°-80°)	240.4	4.7	B1/500		G1/500
BVH (80°-90°)	36.8	0.7			G1/100
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°	34°	35°	45°	55°	65°	75°	85°
0°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
2.5°	629.7	624.1	629.7	633.5	633.5	633.5	639.1	655.9	667.1	674.6	687.6
5°	564.3	566.2	569.9	579.3	584.9	588.6	597.9	618.5	635.3	659.6	687.6
7.5°	506.4	510.1	515.7	525.1	538.2	536.3	556.8	584.9	616.6	648.4	689.5
10°	476.5	484.0	485.8	487.7	500.8	500.8	528.8	560.6	599.8	640.9	689.5
12.5°	482.1	482.1	476.5	474.6	482.1	480.2	504.5	541.9	584.9	642.8	697.0
15°	498.9	498.9	487.7	476.5	487.7	484.0	504.5	534.4	584.9	644.7	711.9
17.5°	521.3	523.2	510.1	491.4	495.2	497.0	512.0	540.0	584.9	648.4	732.5
20°	566.2	556.8	536.3	506.4	519.5	513.9	536.3	560.6	596.1	663.3	762.4
22.5°	605.4	605.4	566.2	540.0	541.9	541.9	562.4	583.0	612.9	683.9	784.8
25°	669.0	665.2	616.6	577.4	581.1	583.0	594.2	618.5	640.9	695.1	812.8
27.5°	749.3	740.0	691.4	646.5	631.6	637.2	642.8	661.5	667.1	713.8	846.5
30°	835.3	822.2	781.1	710.1	702.6	704.5	695.1	706.3	698.9	743.7	880.1
32.5°	889.4	889.4	850.2	797.9	777.3	777.3	745.6	753.0	753.0	771.7	939.9
35°	936.2	932.4	906.3	867.0	853.9	846.5	814.7	825.9	807.2	825.9	1024.0
37.5°	1007.2	996.0	984.7	958.6	932.4	926.8	910.0	917.5	891.3	882.0	1119.3
40°	1089.4	1083.8	1072.6	1061.4	1035.2	1033.3	1014.6	1022.1	994.1	958.6	1214.6
42.5°	1210.8	1194.0	1158.5	1149.2	1154.8	1162.3	1154.8	1141.7	1091.3	1046.4	1317.4
45°	1332.3	1306.1	1238.9	1223.9	1266.9	1261.3	1293.1	1287.5	1205.2	1134.2	1425.7
47.5°	1410.8	1388.4	1334.2	1324.8	1343.5	1351.0	1446.3	1429.5	1298.7	1214.6	1530.4
50°	1466.8	1468.7	1397.7	1422.0	1446.3	1446.3	1565.9	1564.0	1412.7	1313.6	1666.8
52.5°	1549.1	1522.9	1493.0	1515.4	1549.1	1567.7	1715.4	1674.3	1483.7	1397.7	1820.0
55°	1592.0	1580.8	1554.7	1593.9	1664.9	1674.3	1831.2	1799.5	1564.0	1496.7	1977.0
57.5°	1608.9	1618.2	1661.2	1678.0	1777.0	1801.3	1935.9	1891.0	1638.8	1620.1	2098.4
60°	1683.6	1670.5	1728.4	1795.7	1891.0	1904.1	2066.7	1969.5	1711.6	1700.4	2137.7
62.5°	1835.0	1801.3	1833.1	1913.4	2046.1	2062.9	2204.9	2074.1	1743.4	1754.6	2135.8
65°	2055.4	2031.2	1984.4	2048.0	2234.8	2259.1	2367.5	2163.8	1734.1	1735.9	1984.4
67.5°	2315.2	2275.9	2227.4	2266.6	2494.6	2550.6	2565.6	2203.1	1668.7	1631.3	1614.5
70°	2543.1	2517.0	2485.2	2552.5	2870.2	2890.7	2812.2	2178.8	1487.4	1309.9	1076.3
72.5°	2756.2	2743.1	2761.8	3014.0	3378.4	3391.5	3043.9	2025.6	1175.3	794.2	500.8
75°	2773.0	2759.9	2888.8	3395.2	4015.6	4039.9	3187.8	1588.3	620.4	323.3	211.2
77.5°	1877.9	1917.2	2158.2	2972.9	3688.6	3694.2	2606.7	738.1	256.0	190.6	147.6
80°	461.5	512.0	812.8	1537.8	2487.1	2548.8	1427.6	248.5	168.2	145.7	110.2
82.5°	168.2	183.1	330.7	695.1	1397.7	1422.0	498.9	134.5	121.5	112.1	80.3
85°	80.3	82.2	157.0	342.0	706.3	698.9	179.4	80.3	87.8	76.6	48.6
87.5°	33.6	33.6	69.1	158.8	312.1	302.7	57.9	37.4	50.5	44.8	24.3
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°	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1	695.1
2.5°	697.0	700.7	715.7	726.9	738.1	747.4	762.4	762.4	771.7	771.7	771.7
5°	695.1	715.7	740.0	766.1	782.9	799.8	814.7	816.6	822.2	829.7	831.5
7.5°	702.6	723.1	762.4	799.8	820.3	827.8	846.5	840.9	840.9	840.9	846.5
10°	717.5	740.0	794.2	827.8	842.7	844.6	839.0	835.3	824.0	820.3	814.7
12.5°	728.7	768.0	822.2	848.3	842.7	837.1	824.0	805.4	792.3	788.5	788.5
15°	756.8	796.0	846.5	855.8	846.5	816.6	799.8	779.2	768.0	751.2	758.6
17.5°	781.1	825.9	870.8	859.6	840.9	794.2	769.9	740.0	725.0	706.3	706.3
20°	812.8	853.9	893.2	863.3	822.2	771.7	732.5	695.1	674.6	655.9	659.6
22.5°	848.3	885.7	906.3	848.3	794.2	736.2	682.0	646.5	620.4	609.2	612.9
25°	876.4	917.5	913.7	824.0	760.5	691.4	631.6	597.9	592.3	581.1	581.1
27.5°	911.9	954.8	908.1	794.2	704.5	620.4	583.0	569.9	569.9	564.3	568.1
30°	958.6	988.5	895.1	751.2	633.5	556.8	538.2	545.6	558.7	553.1	555.0
32.5°	1035.2	1031.5	883.8	702.6	558.7	495.2	508.3	523.2	534.4	540.0	543.8
35°	1109.9	1085.7	870.8	637.2	489.6	465.3	476.5	493.3	513.9	519.5	521.3
37.5°	1184.7	1141.7	848.3	556.8	446.6	439.1	450.3	459.7	476.5	480.2	484.0
40°	1263.2	1179.1	809.1	478.4	411.1	411.1	418.6	420.4	429.8	435.4	439.1
42.5°	1332.3	1214.6	738.1	405.5	373.7	386.8	388.7	384.9	377.5	381.2	383.1
45°	1416.4	1253.8	655.9	353.2	345.7	362.5	366.2	351.3	338.2	330.7	327.0
47.5°	1498.6	1294.9	584.9	310.2	319.5	345.7	345.7	328.9	306.4	287.8	280.3
50°	1573.4	1336.0	526.9	284.0	293.4	332.6	336.3	304.6	280.3	257.9	254.1
52.5°	1698.5	1405.2	467.1	263.5	278.4	323.3	321.4	293.4	261.6	237.3	235.4
55°	1808.8	1474.3	388.7	242.9	263.5	310.2	315.8	282.2	239.2	216.8	213.0
57.5°	1889.1	1491.1	310.2	222.4	248.5	295.2	302.7	259.7	224.2	205.5	203.7
60°	1904.1	1425.7	252.3	205.5	228.0	274.7	280.3	246.7	213.0	198.1	194.3
62.5°	1835.0	1300.5	214.9	190.6	211.2	254.1	265.3	231.7	201.8	188.7	186.9
65°	1678.0	1117.4	188.7	177.5	199.9	239.2	252.3	220.5	192.5	181.3	179.4
67.5°	1328.6	857.7	168.2	168.2	185.0	224.2	242.9	213.0	183.1	175.6	173.8
70°	868.9	515.7	153.2	155.1	173.8	211.2	231.7	203.7	171.9	170.0	166.3
72.5°	373.7	237.3	136.4	142.0	157.0	188.7	214.9	190.6	158.8	153.2	147.6
75°	171.9	143.9	123.3	127.1	140.1	166.3	194.3	175.6	147.6	138.3	132.7
77.5°	121.5	104.6	102.8	110.2	119.6	143.9	171.9	164.4	136.4	128.9	125.2
80°	89.7	80.3	86.0	93.4	99.0	132.7	162.6	151.4	125.2	114.0	108.4
82.5°	63.5	59.8	67.3	74.7	80.3	115.9	149.5	132.7	104.6	95.3	86.0
85°	37.4	39.2	46.7	50.5	56.1	86.0	125.2	106.5	80.3	61.7	59.8
87.5°	16.8	16.8	22.4	24.3	28.0	50.5	84.1	67.3	50.5	39.2	37.4
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)