

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: P675689

Luminaire Tested: **CCW-SA-1C-735-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675689  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-735-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/  
SL4 distribution lens  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

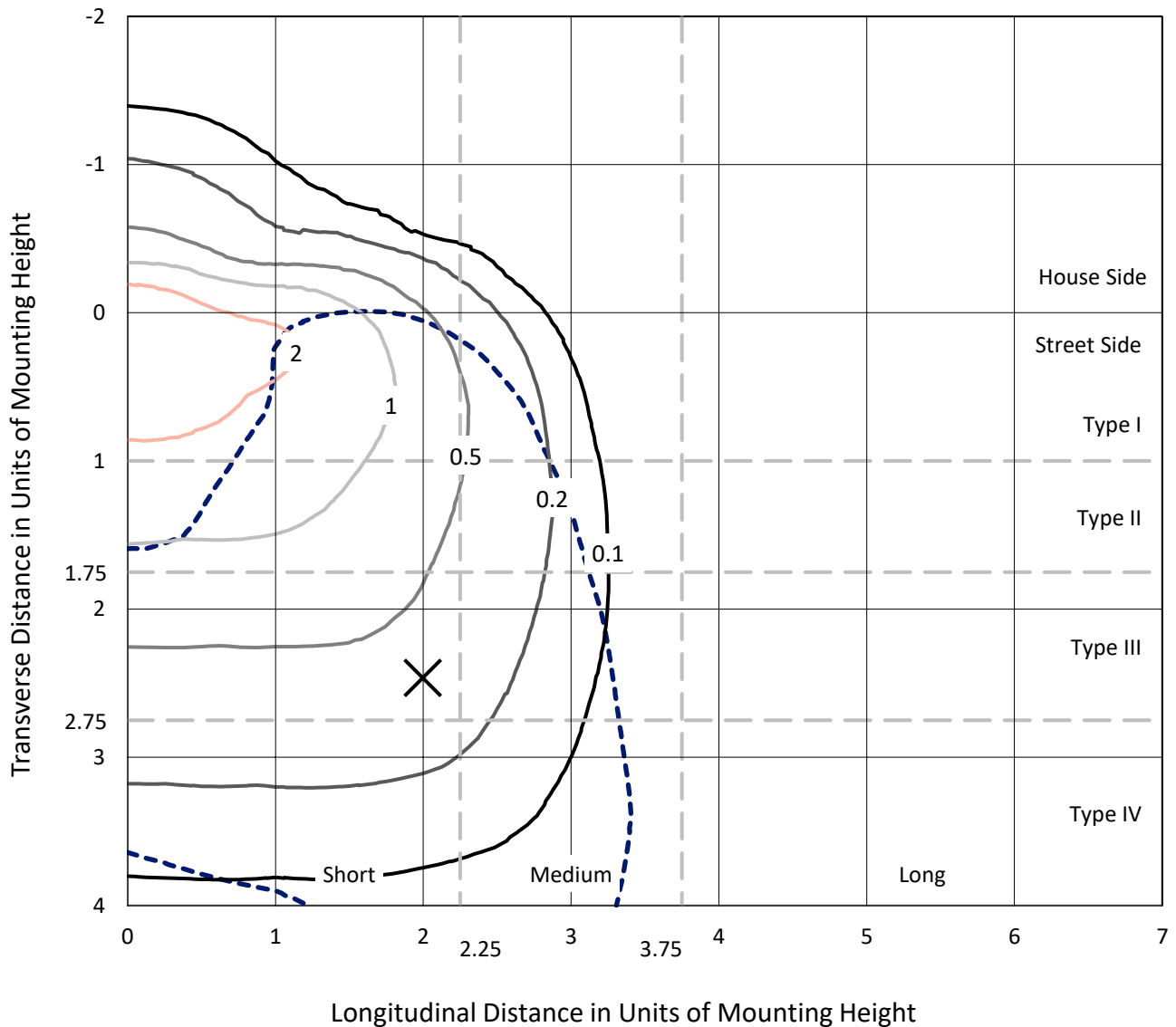
Lumens per Lamp: N/A  
Luminaire Lumens: 4369.8 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
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

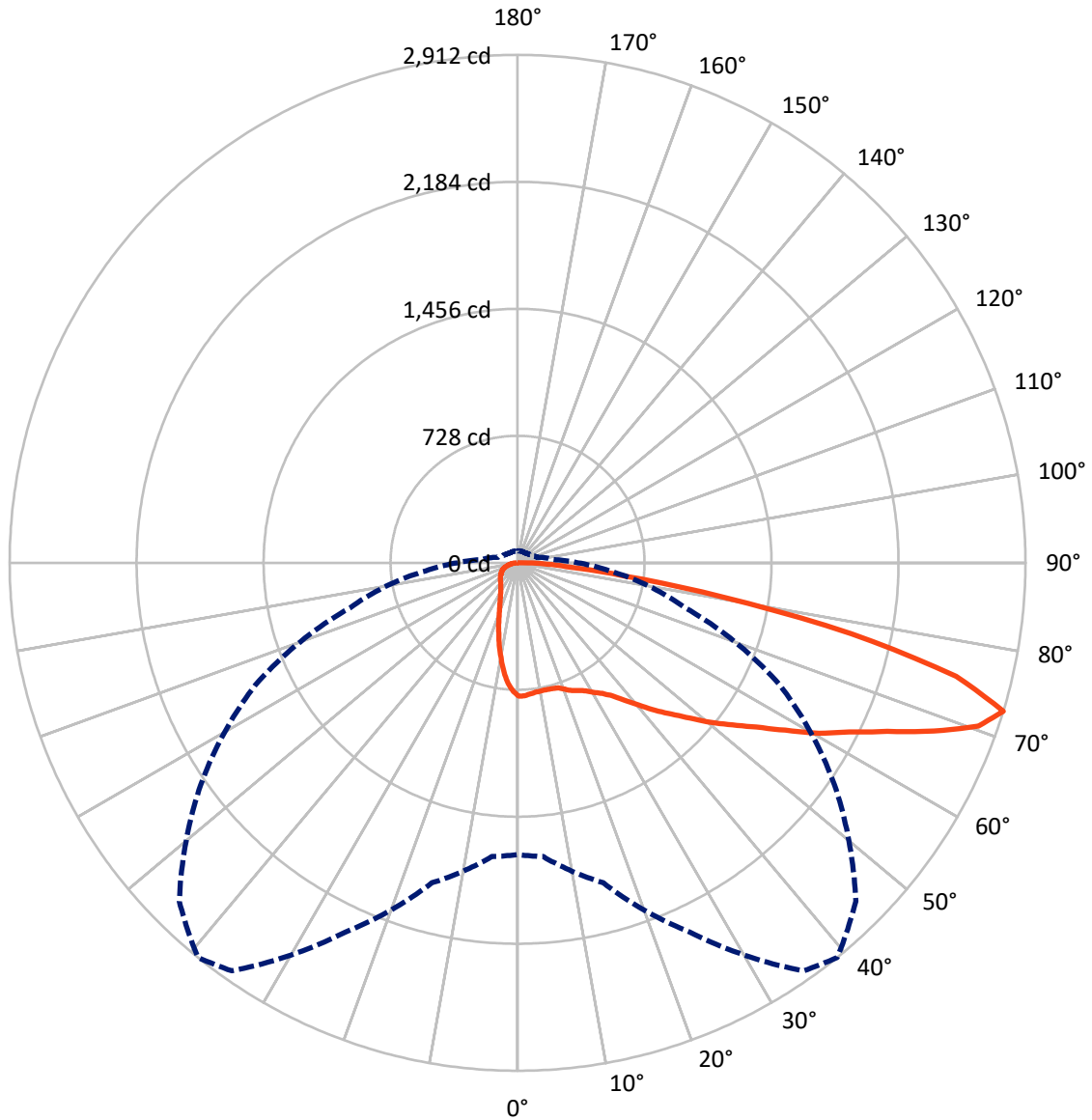
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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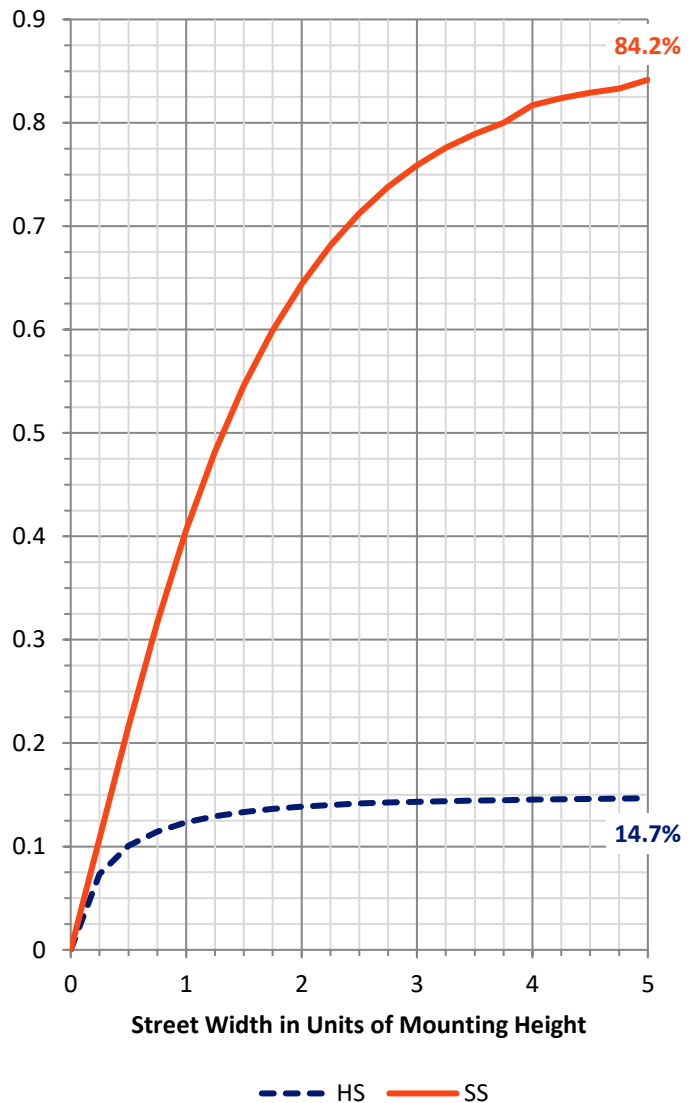
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	649.4	0.0	649.4
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	3720.3	0.0	3720.3
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	4369.8	0.0	4369.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	1.5
10°-20°	172.5	3.9
20°-30°	262.8	6.0
30°-40°	384.4	8.8
40°-50°	588.6	13.5
50°-60°	863.2	19.8
60°-70°	1101.0	25.2
70°-80°	795.4	18.2
80°-90°	134.2	3.1
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°	4369.8	100.0
0°-180°	4369.8	100.0

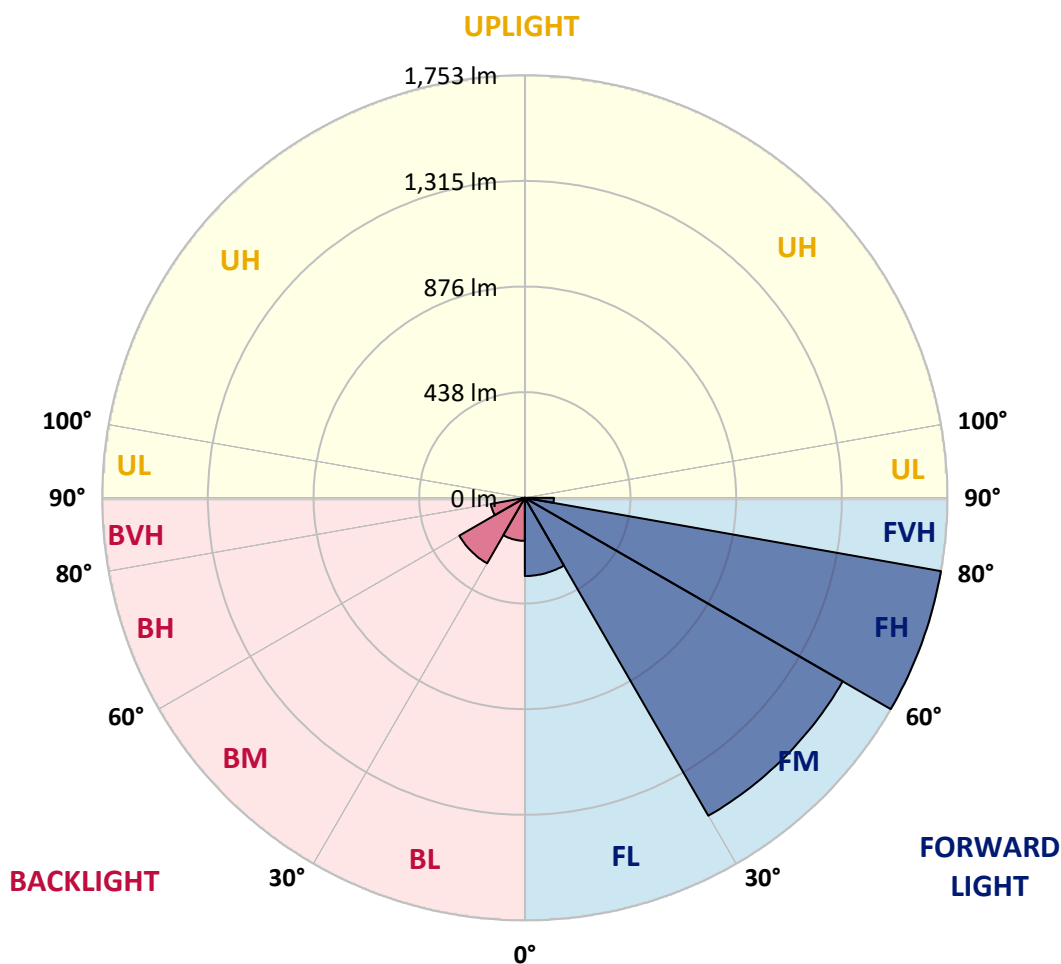


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.3	7.4			
FM (30°-60°)	1522.5	34.8			
FH (60°-80°)	1752.9	40.1			G1/1800
FVH (80°-90°)	120.6	2.8			G2/225
BL (0°-30°)	178.6	4.1	B1/500		
BM (30°-60°)	313.7	7.2	B1/1000		
BH (60°-80°)	143.5	3.3	B1/500		G1/500
BVH (80°-90°)	13.6	0.3			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°	35°	39°	45°	55°	65°	75°	85°
0°	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9
2.5°	776.4	778.0	774.8	771.5	769.8	763.3	769.8	766.5	763.3	763.3	763.3
5°	766.5	768.2	768.2	764.9	766.5	755.1	753.4	755.1	750.1	746.8	745.2
7.5°	751.8	755.1	761.6	760.0	753.4	748.5	750.1	748.5	740.3	735.4	722.2
10°	740.3	743.6	746.8	750.1	748.5	746.8	745.2	738.6	737.0	725.5	712.4
12.5°	728.8	728.8	730.4	743.6	745.2	745.2	735.4	735.4	730.4	728.8	709.1
15°	717.3	722.2	735.4	738.6	745.2	748.5	743.6	743.6	735.4	723.9	709.1
17.5°	720.6	728.8	741.9	750.1	753.4	753.4	760.0	755.1	743.6	737.0	722.2
20°	737.0	738.6	755.1	769.8	773.1	773.1	766.5	761.6	753.4	741.9	722.2
22.5°	746.8	758.3	778.0	786.2	796.1	796.1	787.9	776.4	764.9	753.4	732.1
25°	789.5	791.2	799.4	812.5	817.4	810.9	802.7	789.5	774.8	763.3	743.6
27.5°	819.1	827.3	837.1	843.7	835.5	830.6	824.0	809.2	797.7	787.9	760.0
30°	873.2	863.4	870.0	873.2	858.5	861.7	843.7	830.6	817.4	817.4	786.2
32.5°	906.1	914.3	907.7	906.1	894.6	892.9	881.4	866.7	858.5	868.3	825.6
35°	963.5	958.6	958.6	957.0	943.8	935.6	935.6	909.4	917.6	938.9	886.4
37.5°	993.1	991.4	1001.3	1009.5	996.3	1001.3	996.3	984.9	988.1	1025.9	961.9
40°	1022.6	1034.1	1053.8	1057.1	1065.3	1071.9	1068.6	1066.9	1080.1	1140.8	1063.6
42.5°	1050.5	1060.4	1089.9	1116.2	1135.9	1157.2	1158.8	1158.8	1201.5	1288.5	1186.8
45°	1086.6	1094.8	1135.9	1188.4	1221.2	1236.0	1249.1	1263.9	1321.3	1424.8	1318.1
47.5°	1135.9	1142.4	1191.7	1257.3	1321.3	1329.6	1355.8	1372.2	1459.2	1564.3	1452.7
50°	1206.4	1201.5	1240.9	1336.1	1398.5	1437.9	1475.6	1505.2	1590.5	1705.4	1557.7
52.5°	1263.9	1263.9	1293.4	1419.8	1505.2	1542.9	1582.3	1623.4	1721.9	1846.6	1643.1
55°	1362.4	1352.5	1370.6	1501.9	1625.0	1661.1	1736.6	1771.1	1866.3	1951.7	1715.3
57.5°	1429.7	1434.6	1455.9	1610.2	1766.2	1810.5	1886.0	1910.6	1994.3	2061.6	1767.8
60°	1518.3	1501.9	1547.9	1730.1	1922.1	1984.5	2046.9	2061.6	2124.0	2132.2	1792.4
62.5°	1603.7	1600.4	1639.8	1849.9	2089.5	2133.9	2197.9	2214.3	2240.5	2188.0	1758.0
65°	1656.2	1677.5	1751.4	1981.2	2279.9	2329.2	2393.2	2360.4	2330.8	2138.8	1588.9
67.5°	1728.4	1738.3	1851.5	2124.0	2499.9	2573.8	2629.6	2499.9	2279.9	1936.9	1337.8
70°	1744.8	1771.1	1918.8	2273.4	2726.4	2801.9	2805.2	2452.3	2094.5	1575.8	970.1
72.5°	1672.6	1690.7	1899.1	2335.8	2856.1	2911.9	2742.8	2217.6	1659.5	993.1	528.5
75°	1406.7	1457.6	1652.9	2143.7	2618.1	2596.7	2324.3	1692.3	996.3	439.9	223.2
77.5°	979.9	981.6	1185.1	1559.4	1959.9	1954.9	1657.8	981.6	426.8	177.3	131.3
80°	435.0	466.2	589.3	840.4	1190.0	1190.0	966.8	487.5	213.4	114.9	90.3
82.5°	256.1	265.9	315.2	392.3	579.4	610.6	462.9	325.0	146.1	72.2	55.8
85°	188.8	205.2	234.7	236.4	274.1	279.0	256.1	282.3	100.1	39.4	46.0
87.5°	141.2	151.0	187.1	155.9	146.1	137.9	157.6	288.9	37.8	19.7	14.8
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°	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9
2.5°	756.7	756.7	753.4	746.8	746.8	733.7	737.0	740.3	732.1	732.1	733.7
5°	745.2	738.6	730.4	720.6	714.0	696.0	692.7	681.2	679.6	676.3	671.3
7.5°	722.2	712.4	697.6	682.8	661.5	645.1	625.4	609.0	602.4	597.5	595.8
10°	700.9	699.2	674.6	645.1	612.3	581.1	551.5	530.2	517.0	508.8	507.2
12.5°	700.9	687.8	653.3	612.3	564.7	518.7	480.9	451.4	433.3	420.2	415.3
15°	697.6	684.5	638.5	576.1	522.0	459.6	407.1	375.9	349.6	336.5	338.1
17.5°	700.9	681.2	617.2	549.9	474.4	407.1	344.7	306.9	280.7	270.8	269.2
20°	702.5	677.9	600.8	513.8	425.1	349.6	290.5	254.4	234.7	228.2	228.2
22.5°	699.2	668.1	576.1	471.1	382.5	302.0	252.8	221.6	208.5	200.3	203.5
25°	714.0	666.4	553.2	435.0	333.2	262.6	224.9	201.9	193.7	188.8	190.4
27.5°	717.3	666.4	535.1	393.9	290.5	233.1	203.5	188.8	182.2	178.9	177.3
30°	730.4	669.7	513.8	352.9	256.1	210.1	187.1	178.9	174.0	172.3	172.3
32.5°	766.5	679.6	490.8	318.4	226.5	190.4	175.6	169.1	165.8	164.1	165.8
35°	809.2	705.8	466.2	282.3	205.2	177.3	165.8	160.9	159.2	159.2	159.2
37.5°	874.9	745.2	444.8	252.8	187.1	164.1	155.9	154.3	152.7	154.3	154.3
40°	950.4	787.9	425.1	229.8	174.0	155.9	147.7	147.7	146.1	147.7	149.4
42.5°	1037.4	840.4	405.4	206.8	162.5	149.4	142.8	141.2	139.5	142.8	144.4
45°	1157.2	912.6	392.3	193.7	154.3	142.8	136.2	136.2	134.6	134.6	137.9
47.5°	1257.3	981.6	392.3	180.6	149.4	137.9	131.3	131.3	128.0	129.7	129.7
50°	1341.0	1040.7	400.5	177.3	142.8	133.0	128.0	124.7	123.1	123.1	123.1
52.5°	1396.9	1076.8	407.1	174.0	139.5	126.4	123.1	121.5	118.2	116.5	118.2
55°	1452.7	1101.4	408.7	174.0	134.6	119.8	116.5	116.5	113.3	111.6	111.6
57.5°	1474.0	1091.5	385.7	170.7	131.3	114.9	111.6	110.0	108.3	106.7	106.7
60°	1464.2	1055.4	334.9	162.5	128.0	111.6	105.1	105.1	105.1	101.8	103.4
62.5°	1396.9	932.3	269.2	149.4	123.1	105.1	98.5	101.8	101.8	100.1	100.1
65°	1219.6	769.8	218.3	137.9	116.5	100.1	93.6	98.5	100.1	98.5	96.8
67.5°	975.0	592.6	180.6	124.7	108.3	91.9	87.0	91.9	93.6	91.9	91.9
70°	669.7	382.5	146.1	111.6	96.8	83.7	78.8	82.1	82.1	83.7	83.7
72.5°	346.3	206.8	119.8	95.2	83.7	75.5	70.6	70.6	68.9	68.9	68.9
75°	172.3	141.2	100.1	80.4	70.6	64.0	60.7	57.4	57.4	57.4	57.4
77.5°	119.8	108.3	82.1	64.0	57.4	52.5	52.5	47.6	47.6	47.6	47.6
80°	90.3	85.4	62.4	49.2	44.3	41.0	41.0	39.4	39.4	37.8	37.8
82.5°	64.0	68.9	47.6	36.1	32.8	31.2	31.2	29.5	29.5	26.3	26.3
85°	50.9	57.4	36.1	26.3	24.6	21.3	21.3	19.7	19.7	18.1	16.4
87.5°	14.8	31.2	14.8	9.8	9.8	9.8	9.8	8.2	8.2	6.6	6.6
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)