

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: P676676

Luminaire Tested: **CCW-SA-1D-727-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676676  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-727-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

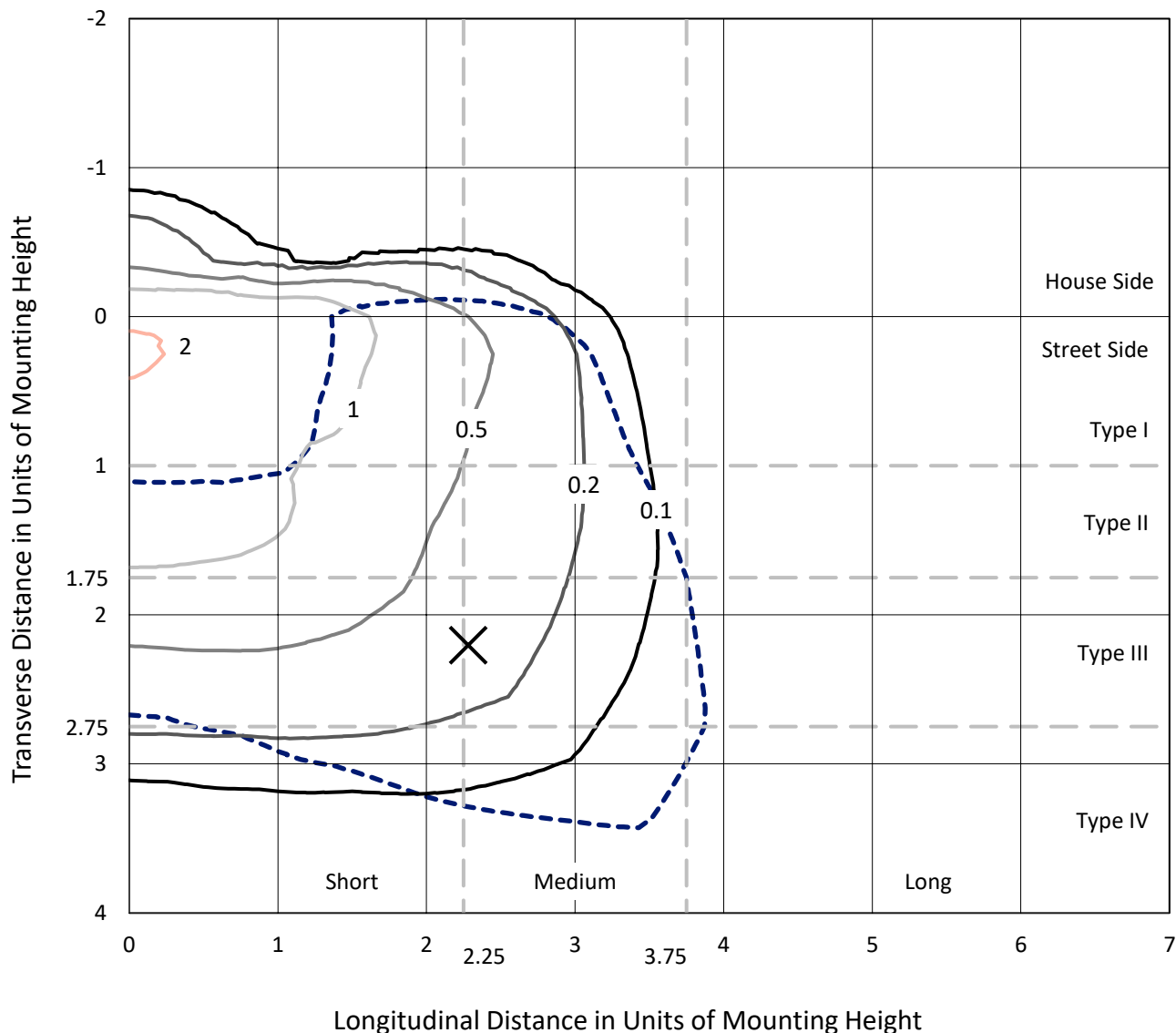
Lumens per Lamp: N/A  
Luminaire Lumens: 3364.9 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
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

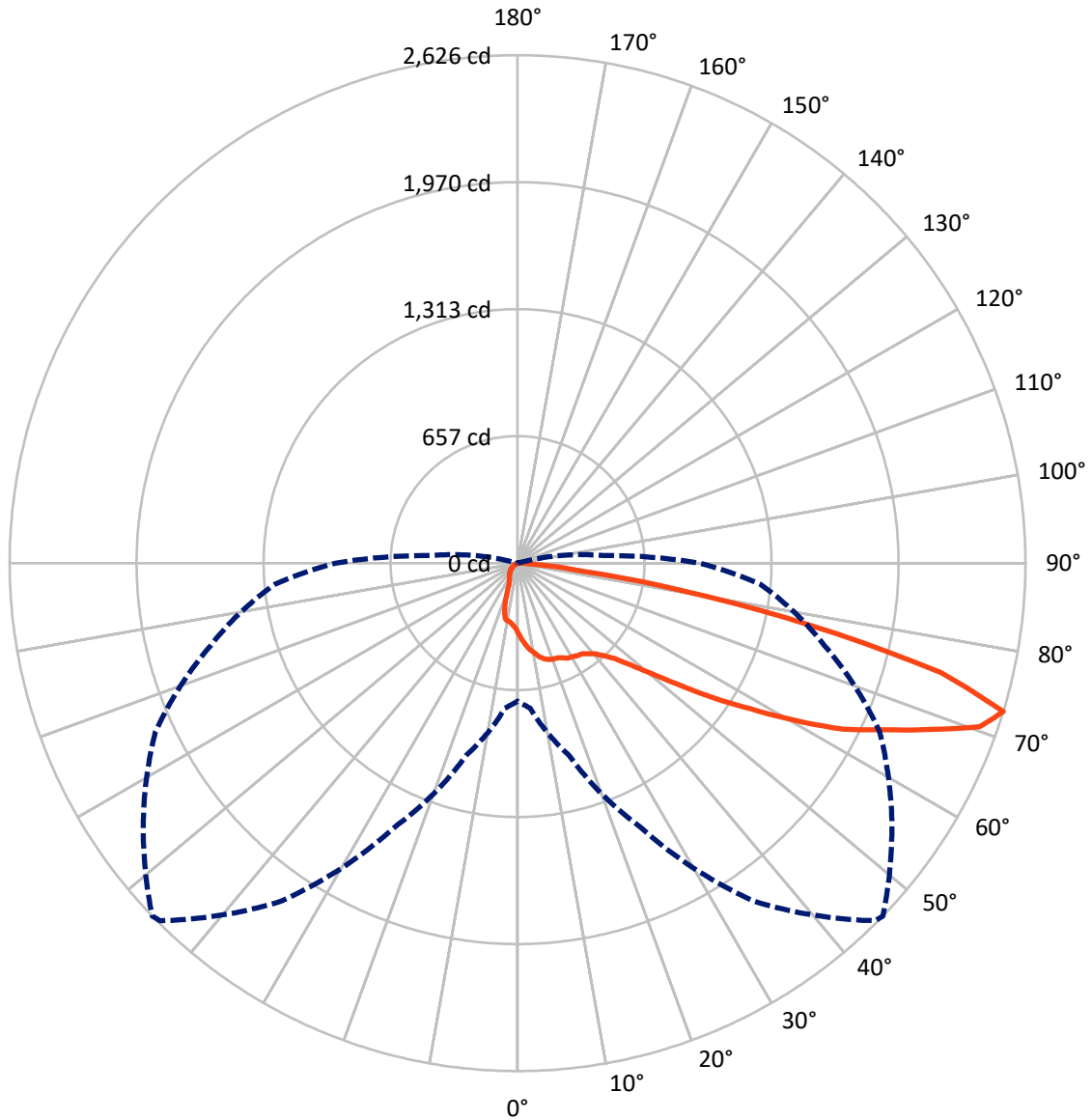
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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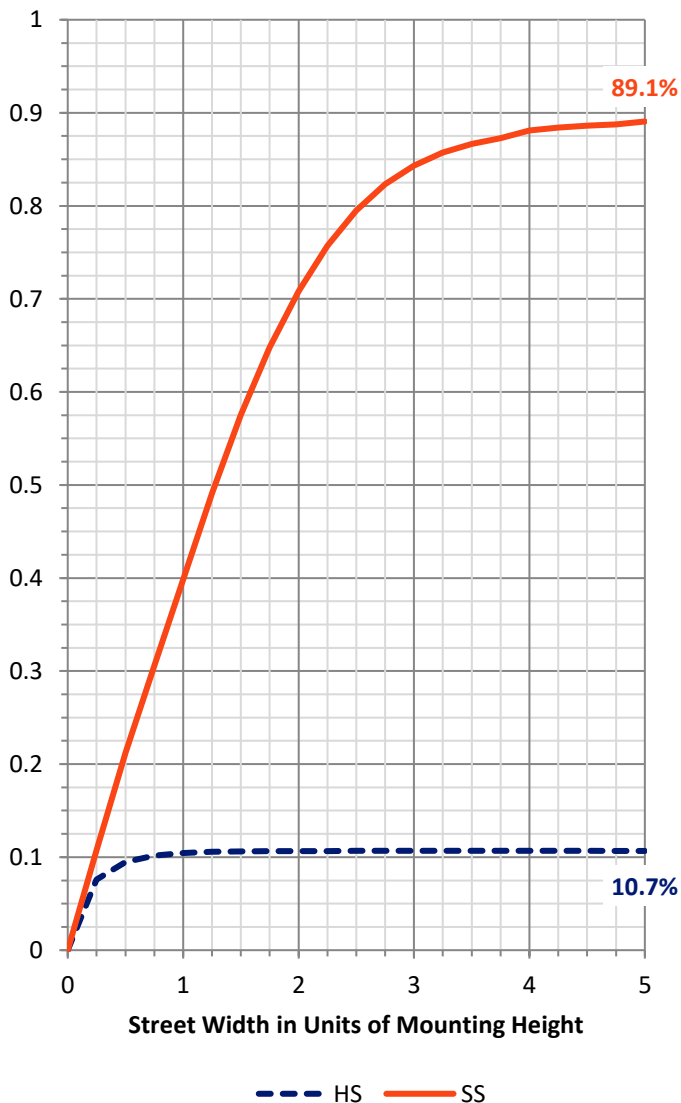
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	362.3	0.0	362.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3002.7	0.0	3002.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	3364.9	0.0	3364.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.0	1.1
10°-20°	108.7	3.2
20°-30°	170.1	5.1
30°-40°	238.3	7.1
40°-50°	392.9	11.7
50°-60°	706.2	21.0
60°-70°	1023.5	30.4
70°-80°	638.8	19.0
80°-90°	50.6	1.5
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°	3364.9	100.0
0°-180°	3364.9	100.0



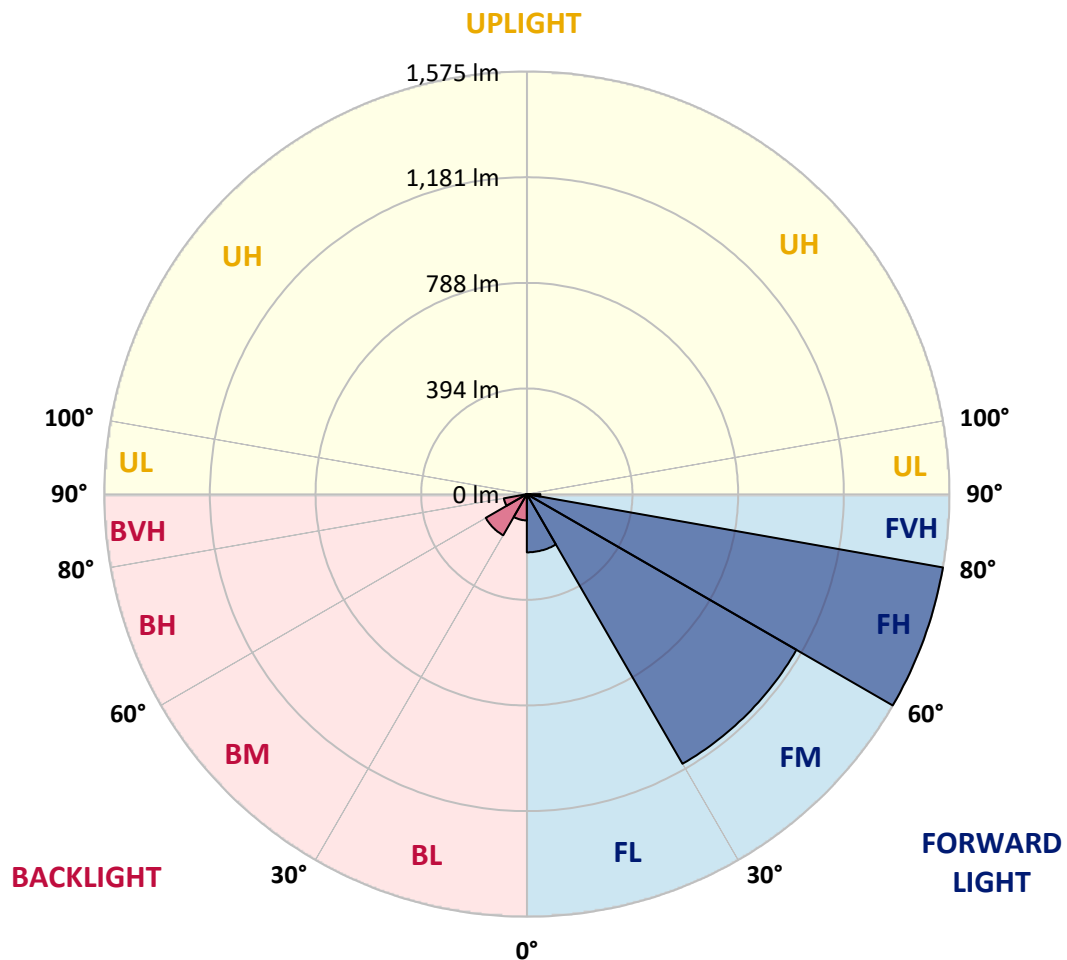
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.9	6.4			
FM (30°-60°)	1160.3	34.5			
FH (60°-80°)	1575.1	46.8			G1/1800
FVH (80°-90°)	50.4	1.5			G1/100
BL (0°-30°)	97.9	2.9	B0/110		
BM (30°-60°)	177.0	5.3	B0/220		
BH (60°-80°)	87.1	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	402.5	400.8	403.4	402.5	392.2	394.0	393.1	386.2	374.2	367.4	363.1
5°	448.9	453.2	449.8	442.0	436.0	424.0	422.3	411.1	392.2	380.2	367.4
7.5°	497.0	497.0	490.1	478.1	465.2	452.3	450.6	431.7	415.4	394.8	376.8
10°	533.0	528.7	523.6	510.7	496.1	478.9	470.4	456.6	438.6	413.7	390.5
12.5°	564.8	557.9	549.3	530.4	513.3	494.4	496.1	473.8	461.8	439.5	405.1
15°	582.8	576.8	569.1	551.9	525.3	516.7	513.3	499.5	478.1	455.8	423.1
17.5°	587.1	582.8	572.5	550.2	535.6	525.3	524.4	508.1	498.7	479.8	443.7
20°	578.5	570.8	563.1	548.5	534.7	531.3	528.7	528.7	516.7	491.8	456.6
22.5°	563.9	555.3	551.0	542.5	531.3	530.4	532.2	530.4	521.0	504.7	470.4
25°	552.8	548.5	541.6	539.0	532.2	545.0	542.5	539.9	537.3	518.4	491.8
27.5°	556.2	555.3	550.2	539.9	534.7	548.5	556.2	557.0	556.2	537.3	511.6
30°	557.9	553.6	548.5	545.9	547.6	561.3	561.3	580.2	572.5	553.6	531.3
32.5°	577.6	575.1	557.9	551.9	552.8	569.1	569.9	588.8	586.2	573.4	548.5
35°	619.7	602.5	577.6	560.5	560.5	581.9	575.1	602.5	609.4	588.8	560.5
37.5°	682.4	669.5	624.8	586.2	571.6	587.1	593.9	609.4	630.0	612.0	584.5
40°	806.8	804.2	740.7	657.5	600.0	613.7	616.3	640.3	654.0	629.1	621.4
42.5°	988.8	975.9	916.7	785.4	651.5	645.4	654.9	670.3	703.0	682.4	663.5
45°	1166.4	1160.4	1101.2	954.4	745.0	709.0	703.8	731.3	779.3	757.0	742.4
47.5°	1295.2	1283.2	1249.7	1126.1	882.3	783.6	787.1	814.5	875.5	858.3	862.6
50°	1393.9	1387.9	1352.7	1284.9	1055.7	901.2	894.4	921.8	1004.2	1015.4	1027.4
52.5°	1502.0	1513.2	1466.0	1408.5	1260.9	1059.2	1043.7	1053.1	1159.6	1185.3	1218.8
55°	1605.9	1623.9	1576.7	1569.0	1475.4	1234.2	1231.7	1209.4	1346.7	1350.1	1368.1
57.5°	1673.7	1667.7	1664.3	1706.3	1690.0	1435.1	1422.2	1399.9	1524.4	1502.0	1556.1
60°	1678.9	1696.0	1753.5	1857.4	1886.6	1671.1	1652.2	1591.3	1678.0	1624.8	1727.8
62.5°	1717.5	1731.2	1837.6	1981.0	2018.7	1878.8	1891.7	1737.2	1809.3	1767.3	1918.3
65°	1619.6	1662.5	1876.3	2077.1	2192.1	2089.1	2076.2	1925.2	1944.1	1904.6	2106.3
67.5°	1531.2	1547.5	1770.7	2106.3	2329.4	2300.3	2295.1	2091.7	2083.1	2010.2	2159.5
70°	1244.5	1264.3	1484.9	1956.9	2375.8	2546.6	2534.6	2325.2	2177.5	1952.7	1886.6
72.5°	713.3	752.7	1029.1	1507.2	2134.6	2615.3	2626.4	2362.9	2065.9	1641.9	1260.0
75°	233.5	244.6	427.4	854.0	1596.5	2281.4	2261.6	2030.8	1666.8	1084.0	569.1
77.5°	79.0	80.7	126.2	309.0	884.9	1541.5	1552.7	1451.4	1024.0	450.6	157.1
80°	40.3	42.9	61.8	115.9	363.9	839.4	857.5	827.4	429.2	133.0	37.8
82.5°	18.9	19.7	36.0	64.4	166.5	329.6	329.6	362.2	151.9	74.7	15.4
85°	6.9	6.9	18.9	36.9	70.4	109.9	110.7	111.6	79.8	55.8	6.9
87.5°	2.6	2.6	9.4	15.4	25.7	33.5	33.5	26.6	40.3	36.9	2.6
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°	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6	359.6
2.5°	361.3	356.2	351.9	345.9	338.2	333.9	334.7	329.6	329.6	327.0	326.2
5°	361.3	356.2	345.0	334.7	327.9	319.3	315.0	311.6	311.6	309.8	310.7
7.5°	363.9	356.2	340.7	327.0	315.9	307.3	300.4	299.5	297.8	293.5	297.0
10°	379.4	368.2	342.5	323.6	310.7	301.3	289.3	285.8	280.7	272.9	273.8
12.5°	392.2	377.7	354.5	328.7	312.4	297.0	269.5	239.5	226.6	212.9	213.7
15°	411.1	390.5	358.8	335.6	312.4	262.6	212.9	174.2	153.6	143.3	143.3
17.5°	421.4	404.3	370.8	339.9	287.5	213.7	151.1	117.6	114.2	115.9	115.9
20°	442.9	419.7	384.5	343.3	246.3	151.9	110.7	107.3	109.0	112.4	111.6
22.5°	456.6	433.4	394.8	327.9	190.5	109.0	103.9	102.1	103.9	108.1	108.1
25°	467.8	453.2	411.1	290.1	134.8	98.7	97.0	98.7	100.4	102.1	104.7
27.5°	495.2	470.4	422.3	241.2	97.0	91.8	93.6	94.4	94.4	97.0	97.8
30°	513.3	493.5	430.9	186.3	85.8	85.0	86.7	87.5	88.4	91.0	91.8
32.5°	530.4	523.6	419.7	126.2	80.7	79.0	78.1	79.0	82.4	85.0	84.1
35°	555.3	551.0	403.4	87.5	75.5	72.1	70.4	71.2	73.8	76.4	75.5
37.5°	585.4	589.7	363.9	76.4	70.4	66.1	62.7	62.7	63.5	66.1	66.9
40°	620.6	631.7	317.6	71.2	66.9	61.8	58.4	54.1	53.2	52.4	53.2
42.5°	684.9	697.8	265.2	67.8	61.8	55.8	50.6	45.5	41.2	38.6	38.6
45°	775.1	764.8	196.6	64.4	59.2	50.6	42.9	36.9	30.9	28.3	28.3
47.5°	899.5	864.3	134.8	60.9	54.9	44.6	36.0	28.3	23.2	20.6	20.6
50°	1072.0	956.2	87.5	57.5	52.4	38.6	29.2	20.6	17.2	16.3	17.2
52.5°	1235.1	1049.7	69.5	53.2	47.2	33.5	22.3	17.2	15.4	14.6	14.6
55°	1385.3	1096.9	61.8	48.9	42.9	27.5	18.9	14.6	13.7	12.9	12.9
57.5°	1512.3	1113.2	53.2	42.9	34.3	21.5	15.4	12.9	11.2	10.3	10.3
60°	1622.2	1117.5	41.2	34.3	24.9	16.3	12.9	11.2	9.4	7.7	7.7
62.5°	1709.8	1087.5	29.2	24.0	17.2	12.9	11.2	7.7	5.1	3.4	2.6
65°	1779.3	1027.4	19.7	16.3	11.2	9.4	6.9	3.4	0.9	0.0	0.0
67.5°	1697.7	890.9	15.4	12.0	7.7	6.0	3.4	0.9	0.0	0.0	0.0
70°	1384.5	690.9	11.2	7.7	5.1	1.7	0.9	0.0	0.0	0.0	0.0
72.5°	942.4	445.5	8.6	5.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0
75°	423.1	159.6	6.0	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	103.0	37.8	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.5	9.4	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	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)