

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: P676742

Luminaire Tested: **CCW-SA-1D-827-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676742  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-827-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2957.8 lumens  
Efficiency: N/A  
Efficacy: 67.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

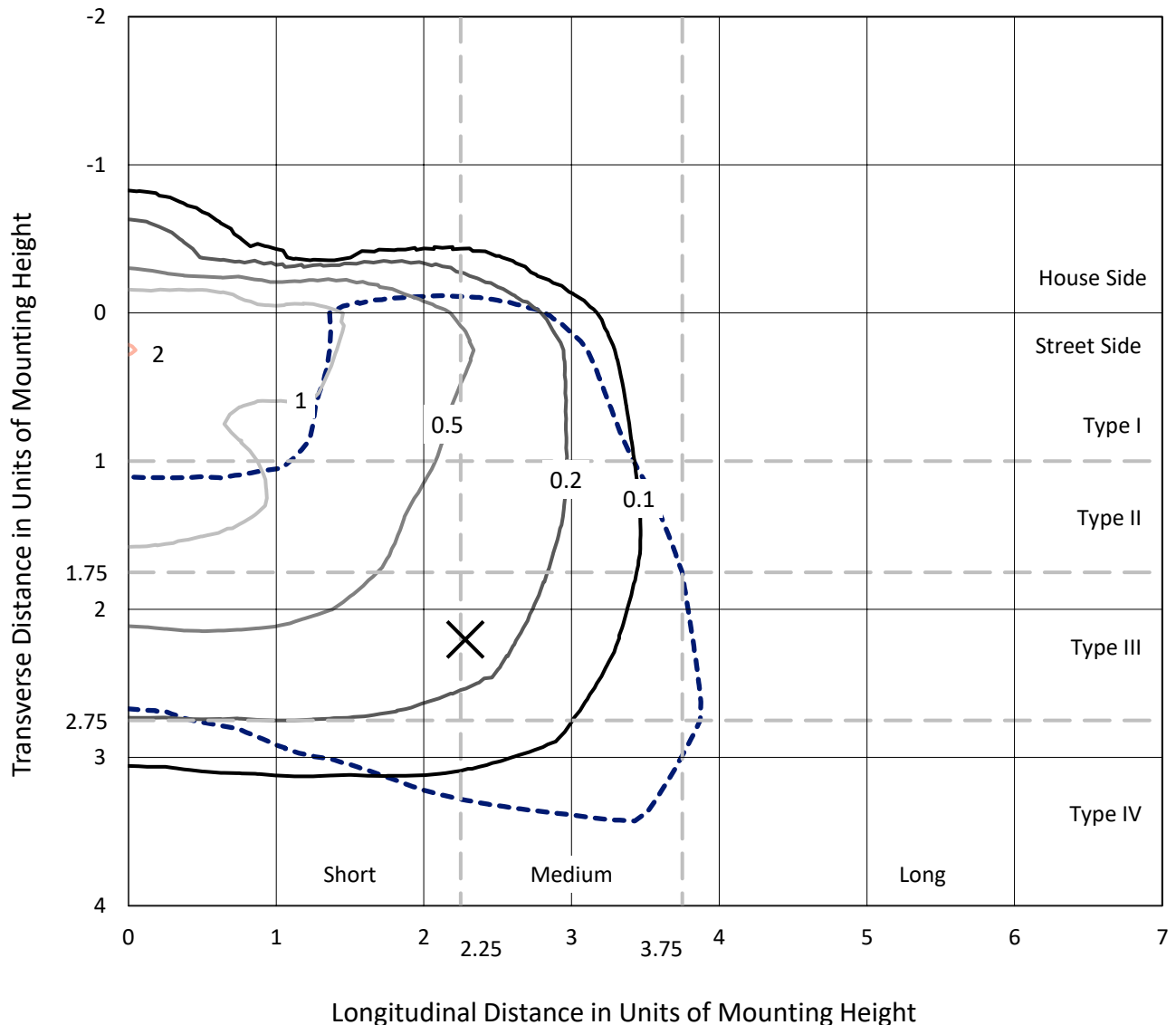
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

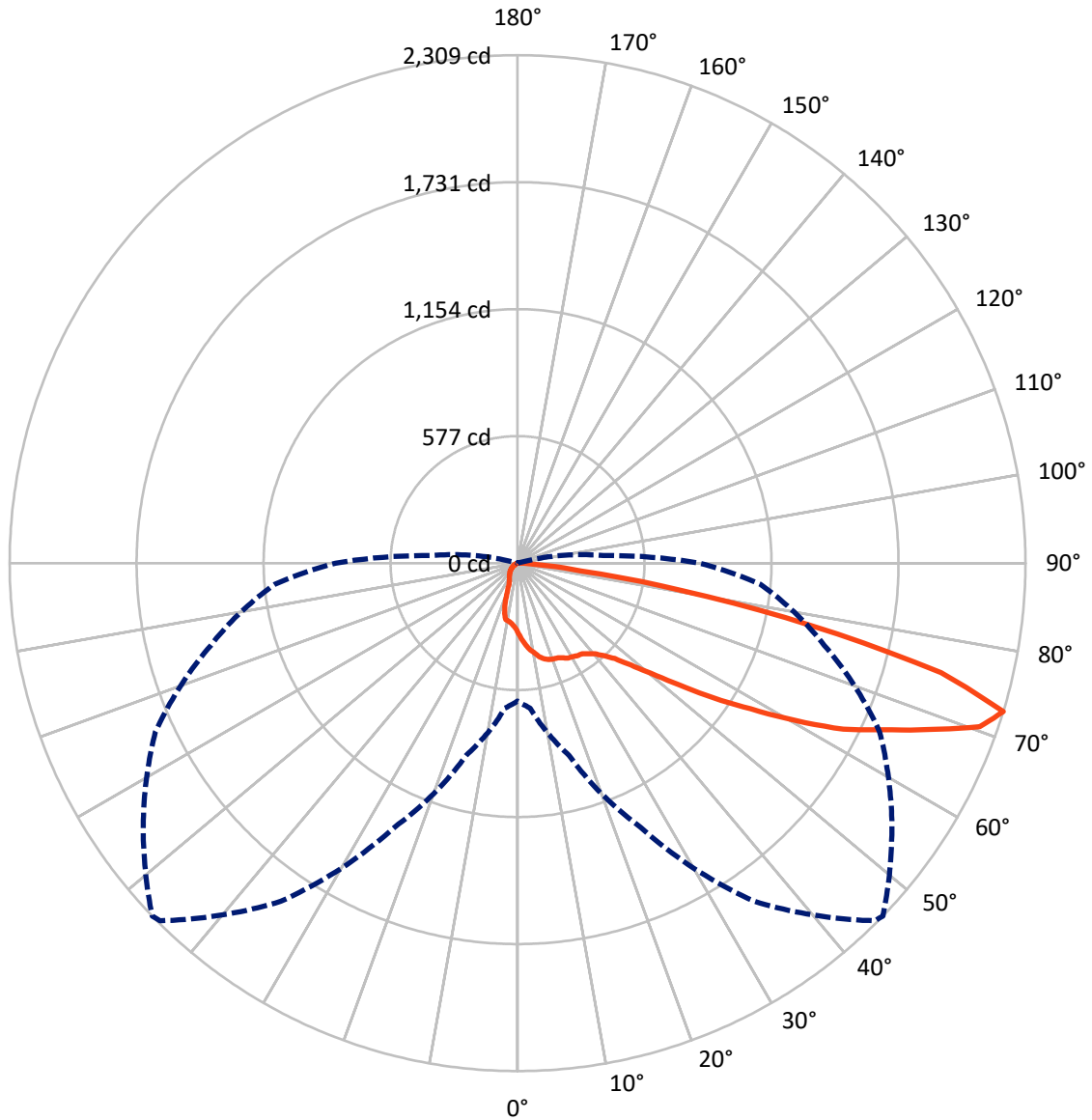
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 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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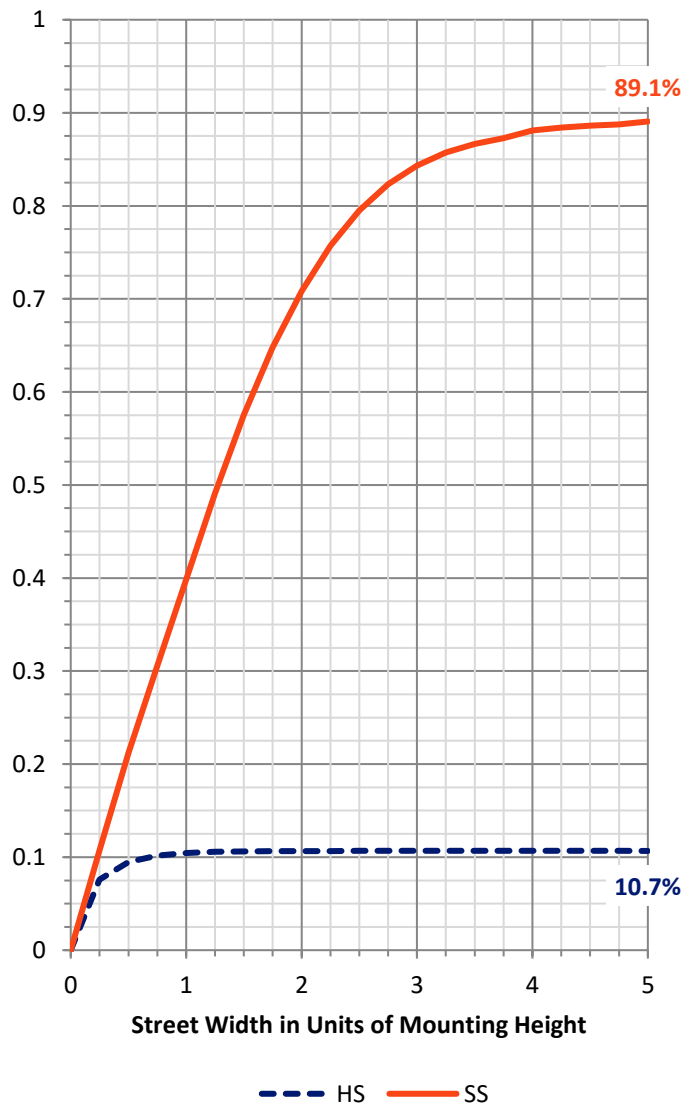
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	318.4	0.0	318.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2639.3	0.0	2639.3
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2957.8	0.0	2957.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	1.1
10°-20°	95.5	3.2
20°-30°	149.5	5.1
30°-40°	209.4	7.1
40°-50°	345.3	11.7
50°-60°	620.7	21.0
60°-70°	899.6	30.4
70°-80°	561.5	19.0
80°-90°	44.5	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°	2957.8	100.0
0°-180°	2957.8	100.0

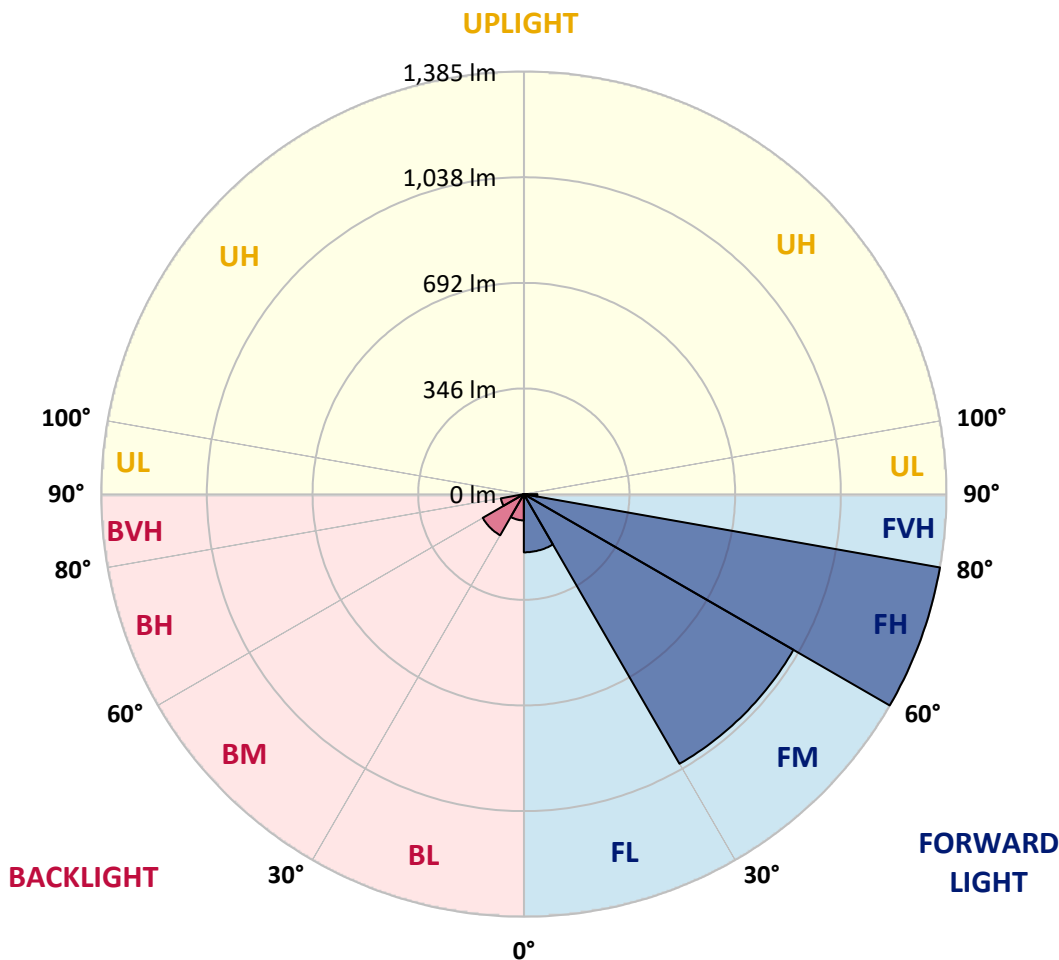


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.6	6.4			
FM (30°-60°)	1019.9	34.5			
FH (60°-80°)	1384.5	46.8			G1/1800
FVH (80°-90°)	44.3	1.5			G1/100
BL (0°-30°)	86.1	2.9	B0/110		
BM (30°-60°)	155.6	5.3	B0/220		
BH (60°-80°)	76.6	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	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°	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1
2.5°	353.8	352.3	354.6	353.8	344.8	346.3	345.5	339.5	328.9	322.9	319.1
5°	394.6	398.3	395.3	388.5	383.3	372.7	371.2	361.4	344.8	334.2	322.9
7.5°	436.8	436.8	430.8	420.2	408.9	397.6	396.1	379.5	365.2	347.0	331.2
10°	468.5	464.7	460.2	448.9	436.1	421.0	413.4	401.4	385.5	363.6	343.3
12.5°	496.4	490.4	482.8	466.2	451.2	434.6	436.1	416.5	405.9	386.3	356.1
15°	512.3	507.0	500.2	485.1	461.7	454.2	451.2	439.1	420.2	400.6	371.9
17.5°	516.0	512.3	503.2	483.6	470.8	461.7	461.0	446.6	438.3	421.7	390.0
20°	508.5	501.7	494.9	482.1	470.0	467.0	464.7	464.7	454.2	432.3	401.4
22.5°	495.7	488.1	484.4	476.8	467.0	466.2	467.8	466.2	457.9	443.6	413.4
25°	485.9	482.1	476.1	473.8	467.8	479.1	476.8	474.5	472.3	455.7	432.3
27.5°	488.9	488.1	483.6	474.5	470.0	482.1	488.9	489.6	488.9	472.3	449.6
30°	490.4	486.6	482.1	479.8	481.3	493.4	493.4	510.0	503.2	486.6	467.0
32.5°	507.7	505.5	490.4	485.1	485.9	500.2	501.0	517.5	515.3	504.0	482.1
35°	544.7	529.6	507.7	492.7	492.7	511.5	505.5	529.6	535.7	517.5	492.7
37.5°	599.8	588.5	549.2	515.3	502.5	516.0	522.1	535.7	553.8	537.9	513.8
40°	709.2	706.9	651.1	577.9	527.4	539.4	541.7	562.8	574.9	553.0	546.2
42.5°	869.1	857.8	805.7	690.3	572.6	567.3	575.6	589.2	617.9	599.8	583.2
45°	1025.3	1020.0	968.0	838.9	654.9	623.2	618.6	642.8	685.0	665.4	652.6
47.5°	1138.5	1127.9	1098.5	989.8	775.6	688.8	691.8	716.0	769.5	754.4	758.2
50°	1225.2	1219.9	1189.0	1129.4	928.0	792.2	786.1	810.3	882.7	892.5	903.1
52.5°	1320.3	1330.1	1288.6	1238.0	1108.3	931.0	917.4	925.7	1019.3	1041.9	1071.3
55°	1411.6	1427.4	1385.9	1379.1	1296.9	1084.9	1082.6	1063.0	1183.7	1186.7	1202.6
57.5°	1471.2	1465.9	1462.9	1499.8	1485.5	1261.4	1250.1	1230.5	1339.9	1320.3	1367.8
60°	1475.7	1490.8	1541.3	1632.6	1658.3	1468.9	1452.3	1398.7	1474.9	1428.2	1518.7
62.5°	1509.6	1521.7	1615.3	1741.3	1774.5	1651.5	1662.8	1527.0	1590.4	1553.4	1686.2
65°	1423.6	1461.4	1649.2	1825.8	1926.9	1836.3	1825.0	1692.2	1708.8	1674.1	1851.4
67.5°	1345.9	1360.3	1556.4	1851.4	2047.6	2021.9	2017.4	1838.6	1831.0	1766.9	1898.2
70°	1093.9	1111.3	1305.2	1720.1	2088.3	2238.4	2227.9	2043.8	1914.0	1716.4	1658.3
72.5°	626.9	661.6	904.6	1324.8	1876.3	2298.8	2308.6	2077.0	1816.0	1443.3	1107.5
75°	205.2	215.0	375.7	750.7	1403.3	2005.3	1988.0	1785.0	1465.1	952.9	500.2
77.5°	69.4	70.9	110.9	271.6	777.8	1355.0	1364.8	1275.8	900.1	396.1	138.1
80°	35.5	37.7	54.3	101.9	319.9	737.8	753.7	727.3	377.2	116.9	33.2
82.5°	16.6	17.4	31.7	56.6	146.4	289.7	289.7	318.4	133.5	65.6	13.6
85°	6.0	6.0	16.6	32.4	61.9	96.6	97.3	98.1	70.2	49.0	6.0
87.5°	2.3	2.3	8.3	13.6	22.6	29.4	29.4	23.4	35.5	32.4	2.3
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°	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1	316.1
2.5°	317.6	313.1	309.3	304.0	297.3	293.5	294.2	289.7	289.7	287.4	286.7
5°	317.6	313.1	303.3	294.2	288.2	280.7	276.9	273.9	273.9	272.4	273.1
7.5°	319.9	313.1	299.5	287.4	277.6	270.1	264.1	263.3	261.8	258.0	261.0
10°	333.5	323.7	301.0	284.4	273.1	264.8	254.2	251.2	246.7	239.9	240.7
12.5°	344.8	332.0	311.6	289.0	274.6	261.0	236.9	210.5	199.2	187.1	187.9
15°	361.4	343.3	315.4	295.0	274.6	230.9	187.1	153.2	135.0	126.0	126.0
17.5°	370.4	355.3	325.9	298.8	252.7	187.9	132.8	103.4	100.3	101.9	101.9
20°	389.3	368.9	338.0	301.8	216.5	133.5	97.3	94.3	95.8	98.8	98.1
22.5°	401.4	381.0	347.0	288.2	167.5	95.8	91.3	89.8	91.3	95.1	95.1
25°	411.2	398.3	361.4	255.0	118.4	86.8	85.3	86.8	88.3	89.8	92.0
27.5°	435.3	413.4	371.2	212.0	85.3	80.7	82.2	83.0	83.0	85.3	86.0
30°	451.2	433.8	378.7	163.7	75.4	74.7	76.2	77.0	77.7	80.0	80.7
32.5°	466.2	460.2	368.9	110.9	70.9	69.4	68.7	69.4	72.4	74.7	73.9
35°	488.1	484.4	354.6	77.0	66.4	63.4	61.9	62.6	64.9	67.1	66.4
37.5°	514.5	518.3	319.9	67.1	61.9	58.1	55.1	55.1	55.8	58.1	58.8
40°	545.5	555.3	279.1	62.6	58.8	54.3	51.3	47.5	46.8	46.0	46.8
42.5°	602.0	613.4	233.1	59.6	54.3	49.0	44.5	40.0	36.2	34.0	34.0
45°	681.3	672.2	172.8	56.6	52.1	44.5	37.7	32.4	27.2	24.9	24.9
47.5°	790.7	759.7	118.4	53.6	48.3	39.2	31.7	24.9	20.4	18.1	18.1
50°	942.3	840.5	77.0	50.5	46.0	34.0	25.7	18.1	15.1	14.3	15.1
52.5°	1085.6	922.7	61.1	46.8	41.5	29.4	19.6	15.1	13.6	12.8	12.8
55°	1217.7	964.2	54.3	43.0	37.7	24.1	16.6	12.8	12.1	11.3	11.3
57.5°	1329.3	978.5	46.8	37.7	30.2	18.9	13.6	11.3	9.8	9.1	9.1
60°	1425.9	982.3	36.2	30.2	21.9	14.3	11.3	9.8	8.3	6.8	6.8
62.5°	1502.9	955.9	25.7	21.1	15.1	11.3	9.8	6.8	4.5	3.0	2.3
65°	1564.0	903.1	17.4	14.3	9.8	8.3	6.0	3.0	0.8	0.0	0.0
67.5°	1492.3	783.1	13.6	10.6	6.8	5.3	3.0	0.8	0.0	0.0	0.0
70°	1216.9	607.3	9.8	6.8	4.5	1.5	0.8	0.0	0.0	0.0	0.0
72.5°	828.4	391.6	7.5	4.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0
75°	371.9	140.3	5.3	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	90.5	33.2	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.1	8.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.8	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)