

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: P676599

Luminaire Tested: **CCW-SA-1E-827-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676599
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

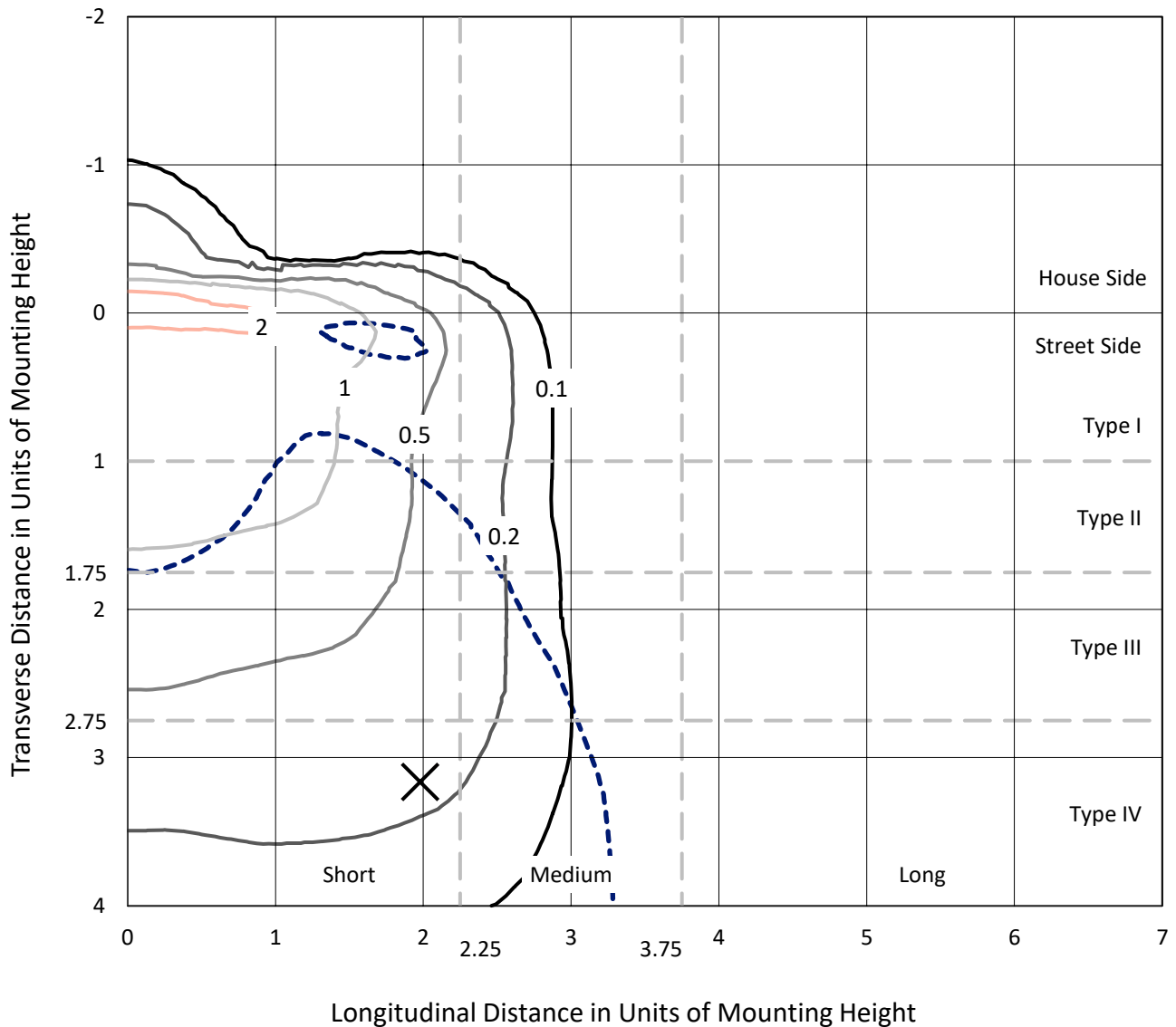
Lumens per Lamp: N/A
Luminaire Lumens: 3608.8 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

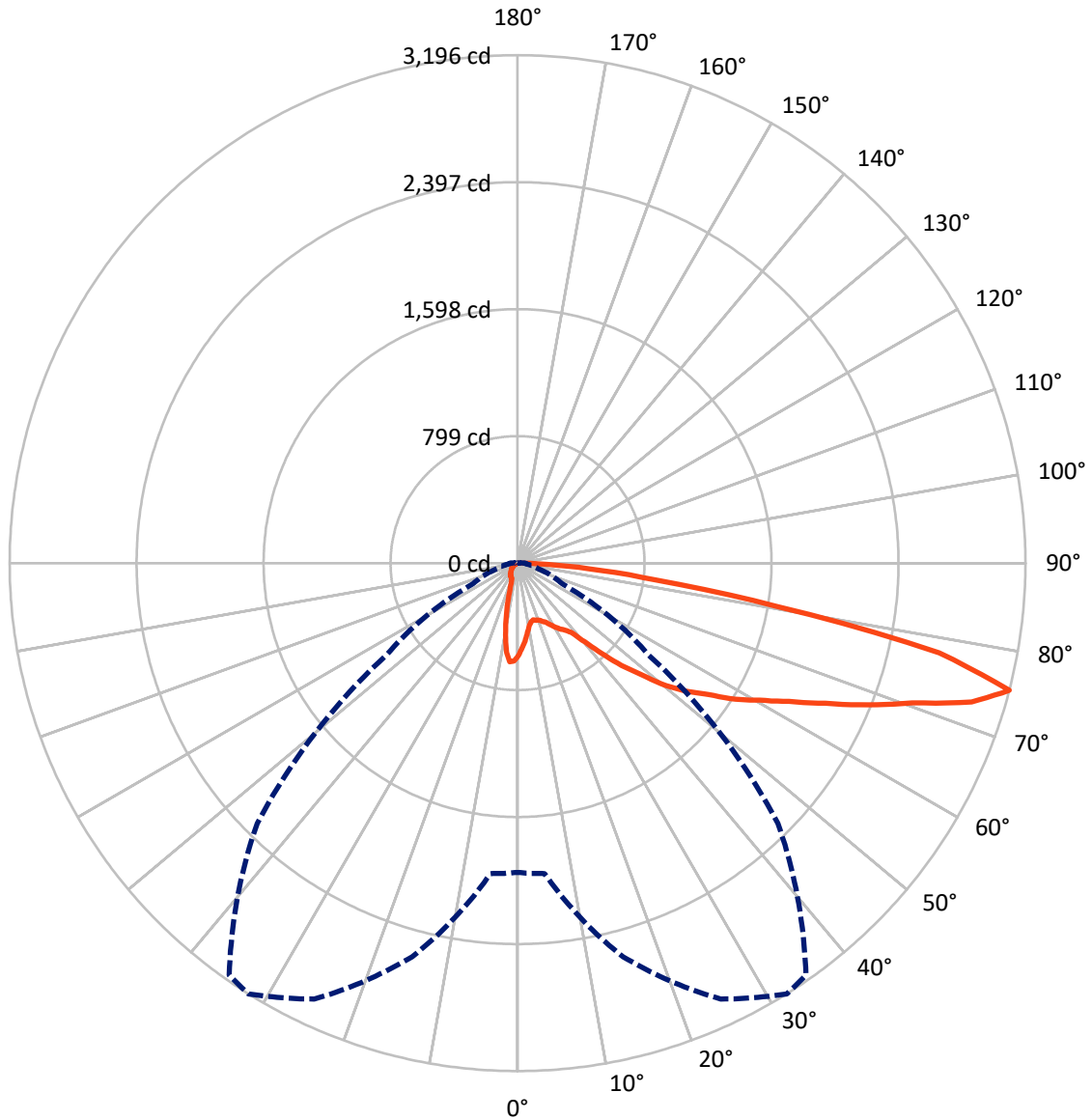
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 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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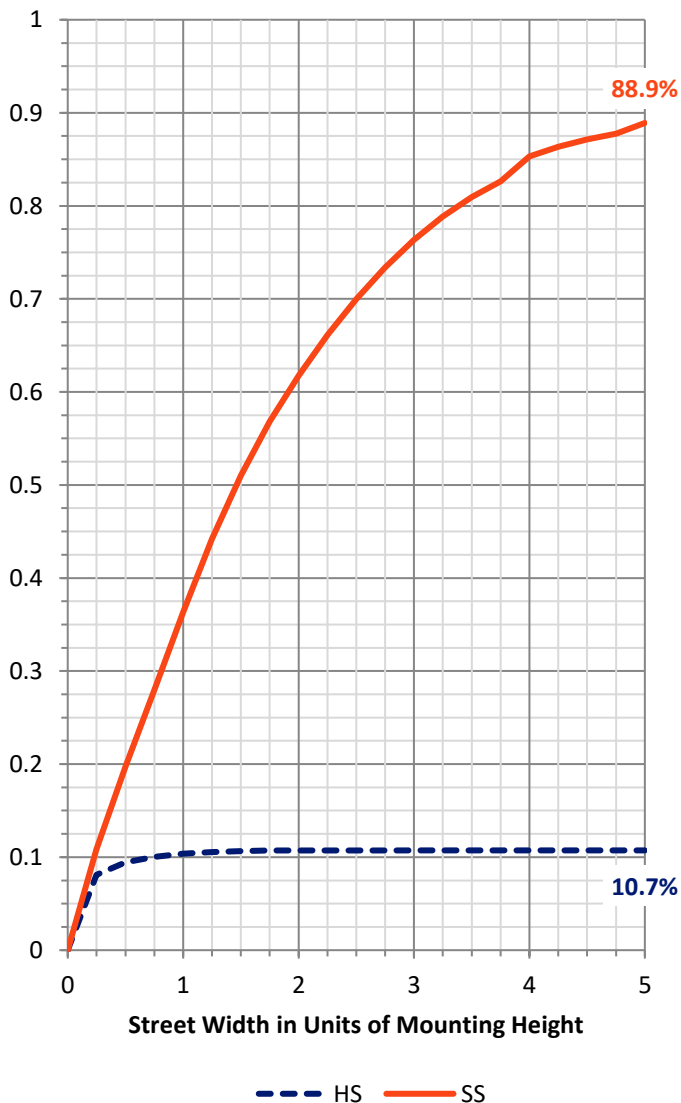
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	389.8	0.0	389.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3219.0	0.0	3219.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3608.8	0.0	3608.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.4
10°-20°	116.3	3.2
20°-30°	174.1	4.8
30°-40°	267.2	7.4
40°-50°	467.3	12.9
50°-60°	730.4	20.2
60°-70°	944.3	26.2
70°-80°	769.1	21.3
80°-90°	89.0	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°	3608.8	100.0
0°-180°	3608.8	100.0

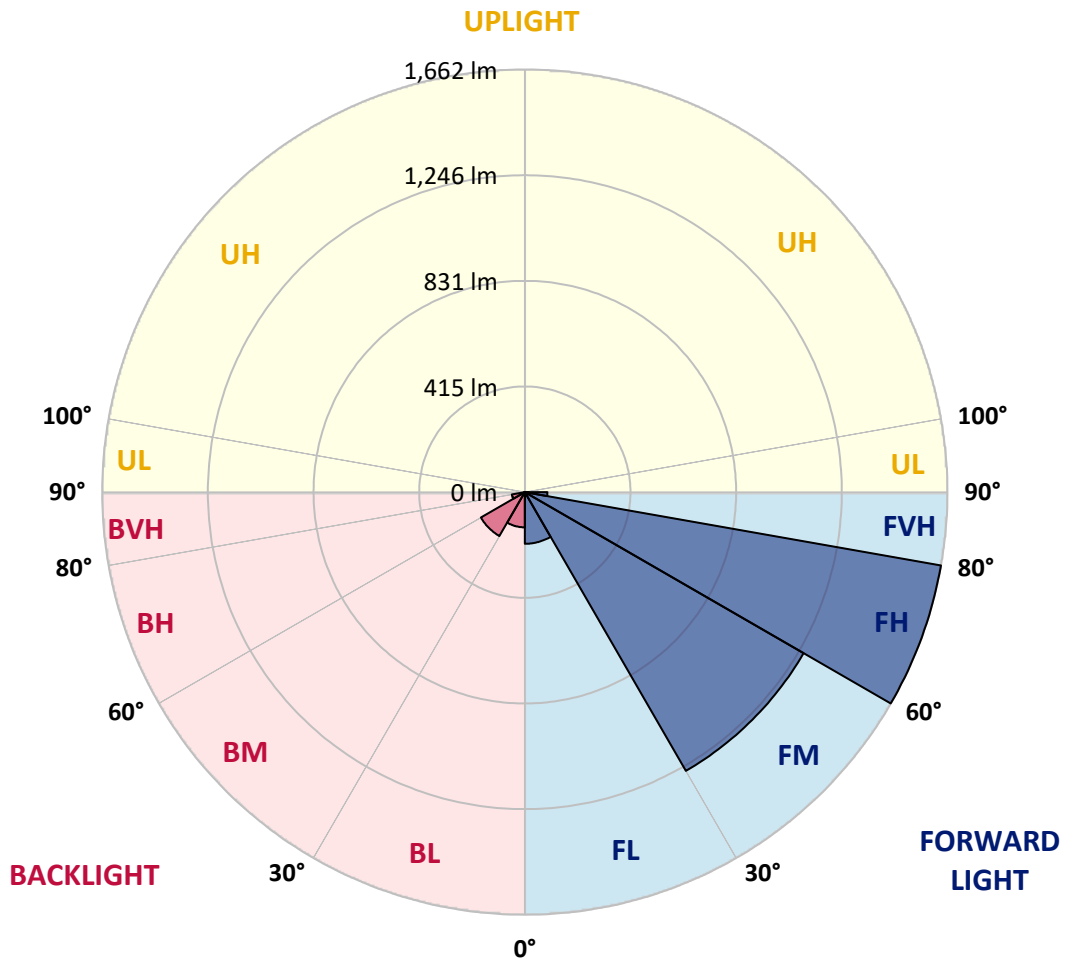


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.0	5.6			
FM (30°-60°)	1265.4	35.1			
FH (60°-80°)	1661.5	46.0			G1/1800
FVH (80°-90°)	89.0	2.5			G1/100
BL (0°-30°)	138.5	3.8	B1/500		
BM (30°-60°)	199.4	5.5	B0/220		
BH (60°-80°)	51.8	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7
2.5°	522.6	530.0	529.1	533.7	534.6	537.4	543.9	543.9	562.4	575.3	583.6
5°	475.4	470.8	472.6	478.2	492.1	491.1	506.9	515.2	537.4	555.9	575.3
7.5°	417.1	416.2	419.9	432.9	443.0	451.4	468.0	489.3	518.9	546.6	580.9
10°	380.2	378.3	385.7	389.4	401.4	407.0	432.9	466.2	501.3	541.1	580.9
12.5°	371.8	365.4	369.1	368.1	379.2	382.0	407.0	447.7	490.2	539.2	588.3
15°	376.5	371.8	368.1	368.1	370.9	372.8	399.6	435.6	483.7	542.0	604.9
17.5°	391.3	388.5	377.4	366.3	378.3	378.3	395.0	432.9	484.7	550.3	625.3
20°	408.8	406.1	386.6	373.7	382.0	391.3	408.8	439.3	487.4	556.8	656.7
22.5°	428.2	428.2	401.4	386.6	397.7	398.7	430.1	459.7	498.5	573.5	677.1
25°	452.3	450.4	424.5	407.9	411.6	421.8	450.4	481.9	518.9	596.6	715.0
27.5°	483.7	481.0	450.4	433.8	438.4	449.5	481.9	513.3	537.4	605.8	747.4
30°	509.6	506.9	481.9	456.9	467.1	477.3	515.2	542.9	560.5	623.4	784.4
32.5°	515.2	510.6	493.9	482.8	493.9	513.3	542.9	571.6	598.4	667.8	854.6
35°	579.0	562.4	518.9	501.3	518.0	524.4	573.5	624.3	650.2	703.0	933.3
37.5°	701.1	685.4	628.0	579.0	555.9	563.3	627.1	690.0	715.0	768.6	1019.3
40°	850.9	825.1	764.0	698.3	651.2	641.9	683.5	776.0	800.1	850.9	1132.1
42.5°	1022.1	997.1	902.7	825.1	777.0	764.9	771.4	875.9	896.3	926.8	1206.1
45°	1145.1	1132.1	1025.8	956.4	918.5	905.5	889.8	985.1	1011.0	1021.1	1313.4
47.5°	1216.3	1207.1	1147.9	1100.7	1049.8	1035.9	1046.1	1136.8	1119.2	1127.5	1416.1
50°	1311.6	1287.5	1207.1	1221.9	1211.7	1208.0	1225.6	1265.3	1239.4	1215.4	1528.0
52.5°	1388.3	1345.8	1289.4	1325.4	1341.2	1355.0	1417.0	1446.6	1331.0	1294.0	1600.2
55°	1435.5	1394.8	1409.6	1442.9	1459.6	1523.4	1596.5	1574.3	1391.1	1356.9	1696.3
57.5°	1478.1	1480.8	1520.6	1530.8	1615.9	1627.0	1767.6	1695.4	1433.7	1414.2	1734.3
60°	1580.7	1570.6	1602.9	1668.6	1750.0	1812.0	1946.1	1776.8	1454.9	1443.8	1724.1
62.5°	1765.7	1702.8	1713.9	1797.2	1916.5	1984.0	2048.8	1813.8	1449.4	1448.5	1693.6
65°	2000.7	1928.5	1895.2	1972.9	2127.4	2222.6	2164.4	1855.4	1412.4	1438.3	1579.8
67.5°	2195.8	2196.7	2134.8	2178.2	2379.9	2400.2	2273.5	1847.1	1350.4	1357.8	1302.3
70°	2420.6	2451.1	2396.5	2532.5	2633.3	2646.3	2398.4	1778.7	1217.2	1023.9	748.3
72.5°	2477.9	2493.7	2663.8	2872.9	2986.6	2990.3	2521.4	1550.2	801.0	452.3	232.2
75°	1946.1	1960.9	2563.9	3026.4	3195.7	3163.3	2316.1	1006.3	311.7	132.3	55.5
77.5°	1085.9	1090.5	1591.8	2446.5	2711.0	2580.6	1622.4	392.2	125.8	75.8	25.9
80°	296.9	348.7	590.1	1206.1	1655.7	1625.1	772.3	127.6	81.4	59.2	12.0
82.5°	71.2	76.8	189.6	533.7	875.0	912.9	230.3	64.7	56.4	49.0	6.5
85°	25.9	28.7	58.3	259.9	449.5	412.5	69.4	32.4	41.6	37.9	2.8
87.5°	9.2	9.2	18.5	85.1	131.3	99.0	23.1	11.1	21.3	23.1	0.9
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°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7
2.5°	584.6	584.6	597.5	608.6	612.3	616.9	612.3	622.5	621.6	616.9	618.8
5°	585.5	602.1	613.2	620.6	624.3	623.4	625.3	614.2	607.7	603.1	598.4
7.5°	590.1	605.8	626.2	624.3	614.2	592.9	576.2	546.6	518.0	517.0	512.4
10°	605.8	619.7	631.7	624.3	587.3	522.6	469.9	430.1	394.0	377.4	379.2
12.5°	616.9	642.8	637.3	599.4	522.6	437.5	359.8	301.5	269.2	238.6	238.6
15°	640.1	649.3	647.5	563.3	443.0	341.3	247.0	187.8	153.5	139.7	137.8
17.5°	662.3	672.4	641.0	508.7	364.4	229.4	149.8	116.5	111.9	110.1	111.0
20°	690.0	690.9	635.4	454.1	273.8	145.2	107.3	104.5	105.4	104.5	104.5
22.5°	719.6	726.1	616.0	377.4	182.2	105.4	99.9	100.8	100.8	100.8	103.6
25°	758.5	748.3	585.5	304.3	119.3	97.1	97.1	98.0	98.0	98.0	99.0
27.5°	784.4	770.5	546.6	219.2	93.4	91.6	93.4	93.4	95.3	95.3	95.3
30°	838.0	801.9	497.6	141.5	84.2	86.9	88.8	90.6	91.6	93.4	94.3
32.5°	879.6	829.7	436.6	94.3	76.8	78.6	83.2	86.9	90.6	89.7	89.7
35°	955.5	875.0	380.2	74.9	70.3	70.3	74.9	81.4	86.9	88.8	88.8
37.5°	1042.4	912.0	301.5	68.4	64.7	64.7	67.5	74.9	82.3	86.0	84.2
40°	1114.6	954.5	222.9	63.8	60.1	60.1	62.0	67.5	75.8	82.3	83.2
42.5°	1165.4	986.0	150.8	59.2	56.4	55.5	58.3	61.0	67.5	76.8	78.6
45°	1211.7	1002.6	93.4	54.6	52.7	52.7	52.7	55.5	60.1	68.4	70.3
47.5°	1294.0	1021.1	67.5	50.9	48.1	49.0	49.9	50.9	54.6	56.4	57.3
50°	1363.4	1035.0	55.5	47.2	45.3	46.2	46.2	46.2	48.1	45.3	45.3
52.5°	1416.1	1021.1	47.2	43.5	41.6	42.5	41.6	41.6	39.8	36.1	36.1
55°	1454.9	996.2	37.9	39.8	39.8	39.8	37.9	35.1	31.4	28.7	28.7
57.5°	1465.1	953.6	29.6	33.3	36.1	36.1	32.4	28.7	24.0	21.3	20.3
60°	1449.4	861.1	22.2	24.0	27.7	28.7	25.9	21.3	16.6	13.9	13.9
62.5°	1393.0	788.1	17.6	15.7	20.3	21.3	18.5	13.9	9.2	6.5	5.5
65°	1285.7	675.2	12.9	11.1	13.9	14.8	12.0	6.5	2.8	0.9	0.0
67.5°	1031.3	508.7	8.3	7.4	9.2	9.2	5.5	1.8	0.0	0.0	0.0
70°	570.7	285.8	5.5	3.7	4.6	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	164.6	81.4	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.4	19.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.4	7.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)