

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: P676745

Luminaire Tested: **CCW-SA-2A-827-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676745
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-827-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

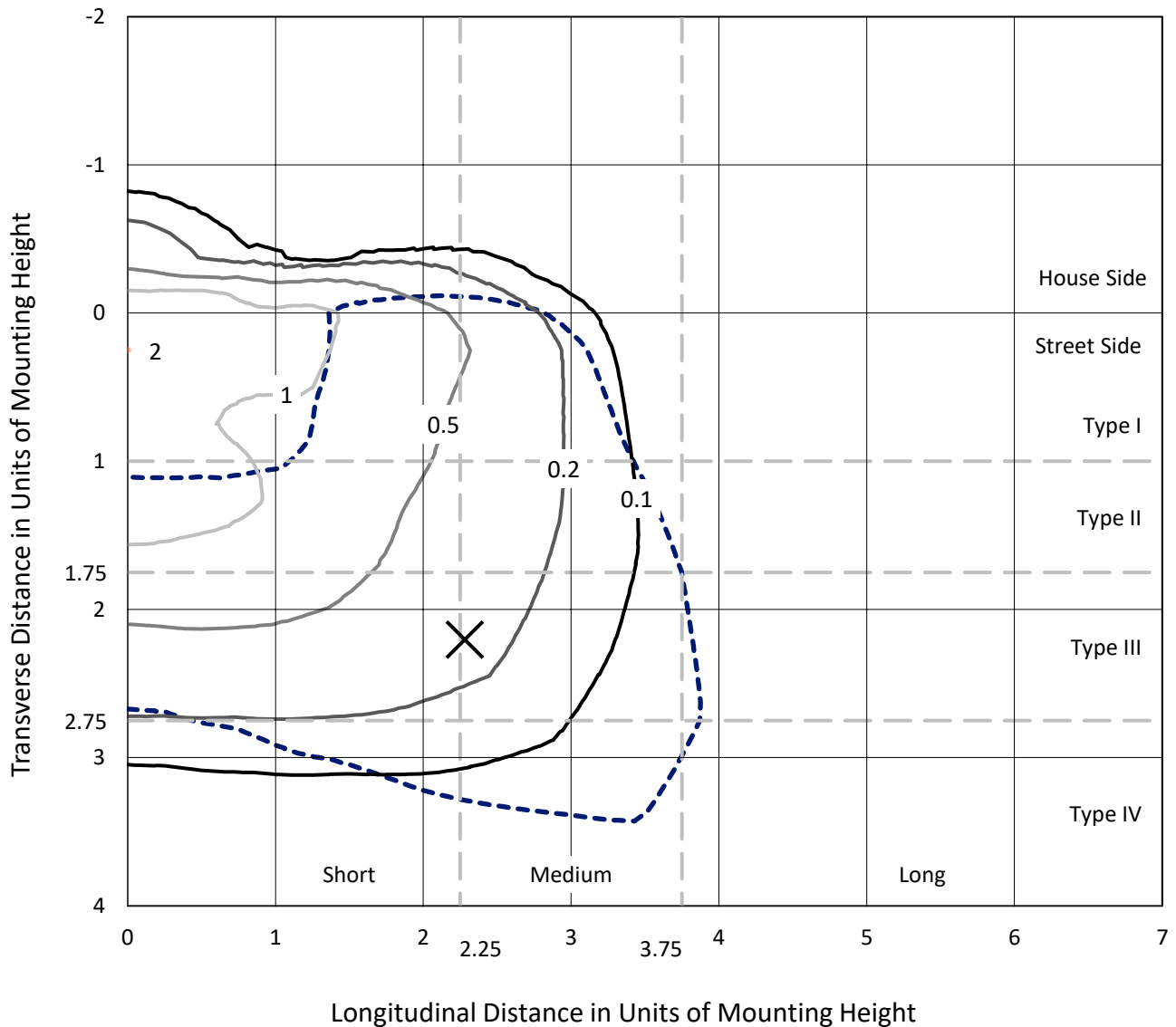
Lumens per Lamp: N/A
Luminaire Lumens: 2901.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2
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

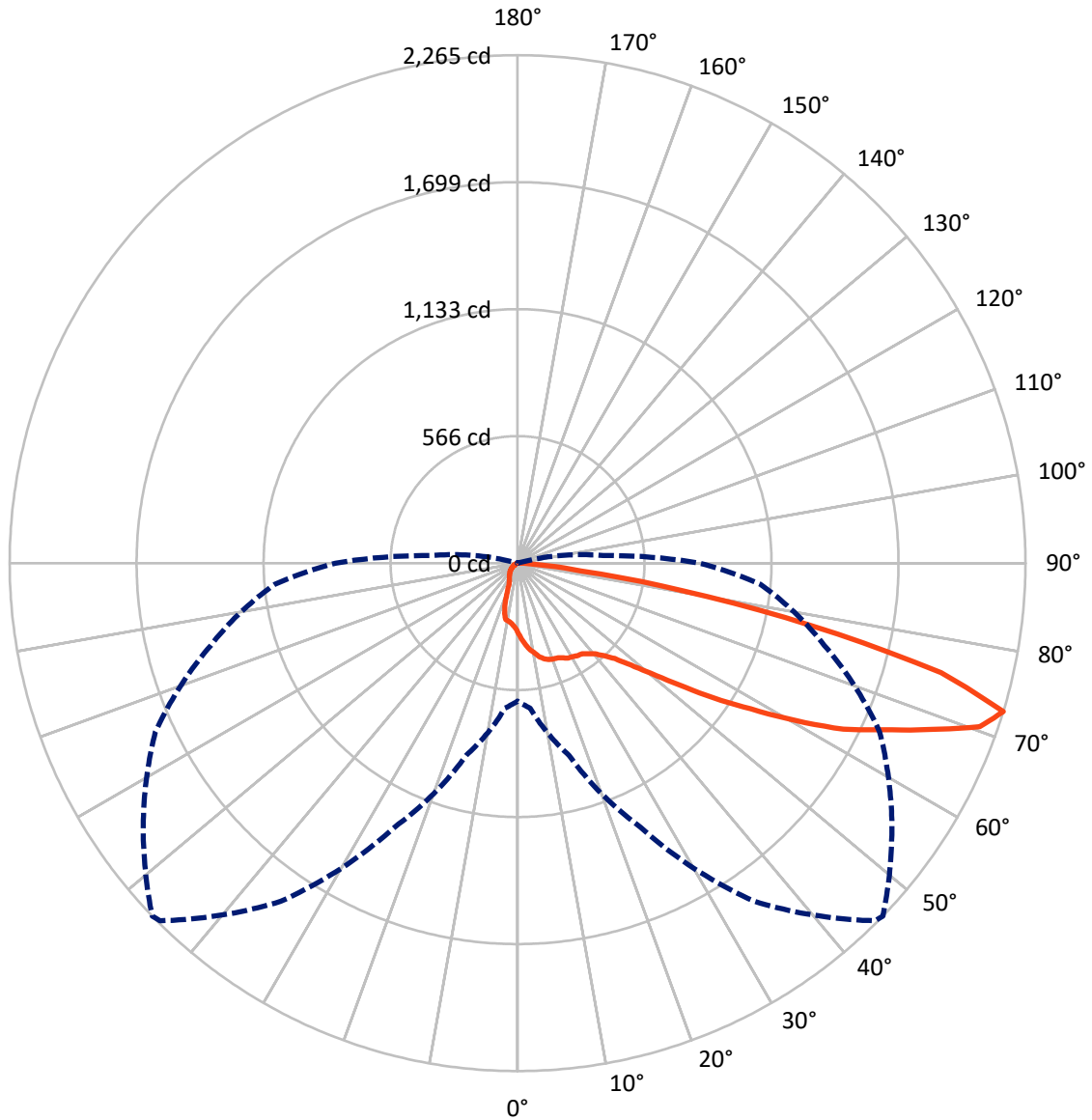
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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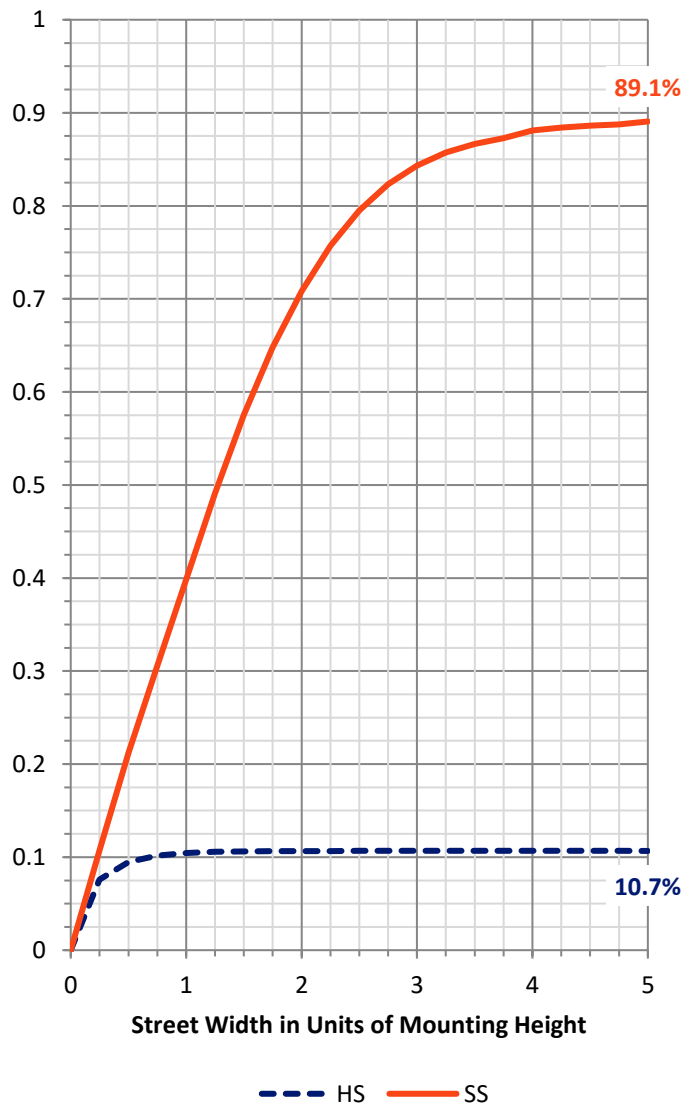
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.4	0.0	312.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2589.5	0.0	2589.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	2901.9	0.0	2901.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	1.1
10°-20°	93.7	3.2
20°-30°	146.7	5.1
30°-40°	205.5	7.1
40°-50°	338.8	11.7
50°-60°	609.0	21.0
60°-70°	882.7	30.4
70°-80°	550.9	19.0
80°-90°	43.7	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°	2901.9	100.0
0°-180°	2901.9	100.0

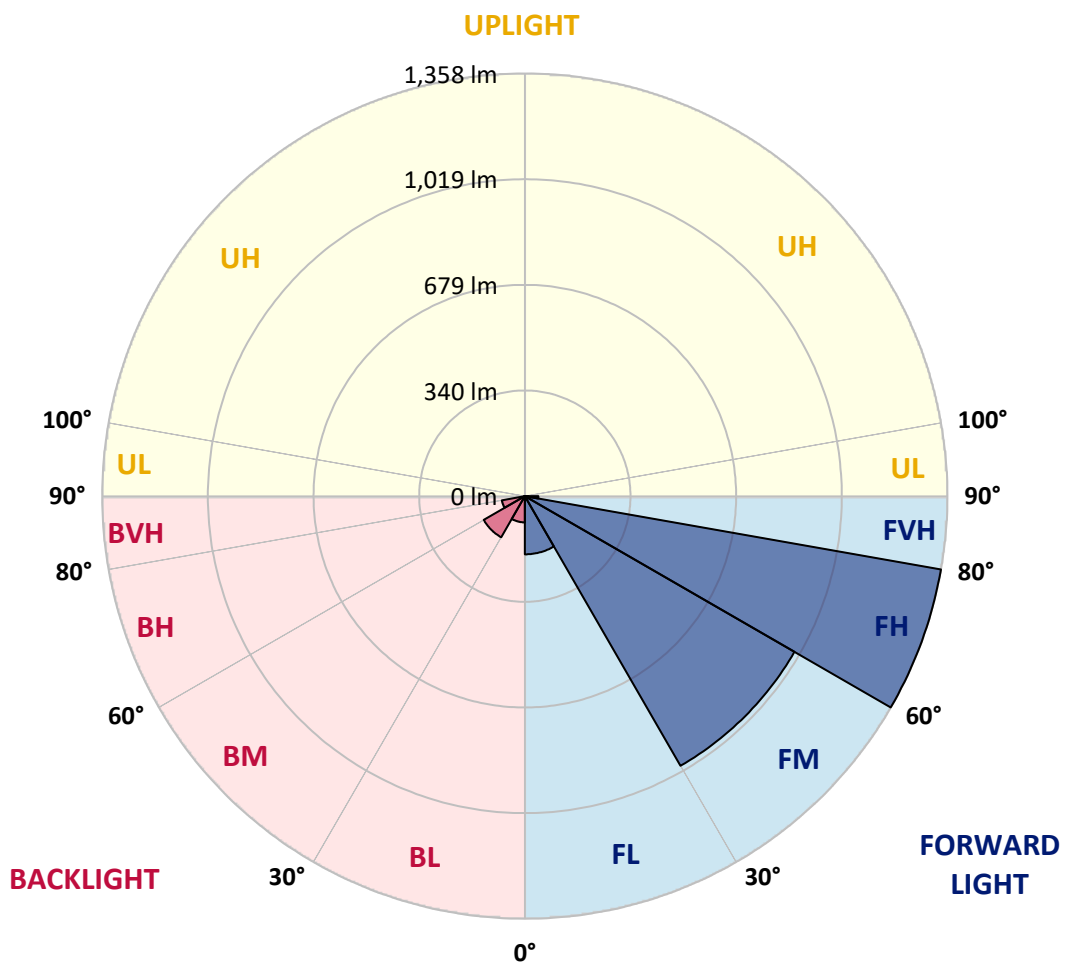


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.0	6.4			
FM (30°-60°)	1000.7	34.5			
FH (60°-80°)	1358.4	46.8			G1/1800
FVH (80°-90°)	43.4	1.5			G1/100
BL (0°-30°)	84.4	2.9	B0/110		
BM (30°-60°)	152.6	5.3	B0/220		
BH (60°-80°)	75.1	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°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	347.2	345.7	347.9	347.2	338.3	339.8	339.0	333.1	322.7	316.8	313.1
5°	387.1	390.8	387.9	381.2	376.0	365.7	364.2	354.6	338.3	327.9	316.8
7.5°	428.6	428.6	422.7	412.3	401.2	390.1	388.6	372.3	358.3	340.5	325.0
10°	459.7	456.0	451.5	440.4	427.8	413.0	405.6	393.8	378.2	356.8	336.8
12.5°	487.1	481.1	473.7	457.4	442.6	426.4	427.8	408.6	398.2	379.0	349.4
15°	502.6	497.4	490.8	476.0	453.0	445.6	442.6	430.8	412.3	393.0	364.9
17.5°	506.3	502.6	493.7	474.5	461.9	453.0	452.3	438.2	430.1	413.8	382.7
20°	498.9	492.2	485.6	473.0	461.1	458.2	456.0	456.0	445.6	424.1	393.8
22.5°	486.3	478.9	475.2	467.8	458.2	457.4	458.9	457.4	449.3	435.2	405.6
25°	476.7	473.0	467.1	464.8	458.9	470.0	467.8	465.6	463.4	447.1	424.1
27.5°	479.7	478.9	474.5	465.6	461.1	473.0	479.7	480.4	479.7	463.4	441.2
30°	481.1	477.4	473.0	470.8	472.3	484.1	484.1	500.4	493.7	477.4	458.2
32.5°	498.2	495.9	481.1	476.0	476.7	490.8	491.5	507.8	505.6	494.5	473.0
35°	534.4	519.6	498.2	483.4	483.4	501.9	495.9	519.6	525.5	507.8	483.4
37.5°	588.5	577.4	538.9	505.6	493.0	506.3	512.2	525.5	543.3	527.8	504.1
40°	695.8	693.6	638.8	567.0	517.4	529.2	531.5	552.2	564.0	542.6	535.9
42.5°	852.7	841.6	790.5	677.3	561.8	556.6	564.8	578.1	606.2	588.5	572.2
45°	1005.9	1000.8	949.7	823.1	642.5	611.4	607.0	630.7	672.1	652.9	640.3
47.5°	1117.0	1106.6	1077.7	971.1	760.9	675.8	678.8	702.5	755.0	740.2	743.9
50°	1202.1	1196.9	1166.6	1108.1	910.5	777.2	771.3	795.0	866.0	875.7	886.0
52.5°	1295.4	1305.0	1264.3	1214.7	1087.4	913.4	900.1	908.2	1000.0	1022.2	1051.1
55°	1384.9	1400.5	1359.8	1353.1	1272.4	1064.4	1062.2	1042.9	1161.4	1164.3	1179.9
57.5°	1443.4	1438.2	1435.3	1471.5	1457.5	1237.6	1226.5	1207.3	1314.6	1295.4	1342.0
60°	1447.8	1462.6	1512.2	1601.8	1627.0	1441.2	1424.9	1372.3	1447.1	1401.2	1490.0
62.5°	1481.2	1493.0	1584.8	1708.4	1741.0	1620.3	1631.4	1498.2	1560.4	1524.1	1654.4
65°	1396.8	1433.8	1618.1	1791.3	1890.5	1801.7	1790.6	1660.3	1676.6	1642.5	1816.5
67.5°	1320.5	1334.6	1527.0	1816.5	2008.9	1983.8	1979.3	1803.9	1796.5	1733.6	1862.4
70°	1073.3	1090.3	1280.6	1687.7	2048.9	2196.2	2185.8	2005.2	1877.9	1684.0	1627.0
72.5°	615.1	649.2	887.5	1299.8	1840.9	2255.4	2265.0	2037.8	1781.7	1416.0	1086.6
75°	201.3	211.0	368.6	736.5	1376.8	1967.5	1950.4	1751.3	1437.5	934.9	490.8
77.5°	68.1	69.6	108.8	266.5	763.2	1329.4	1339.0	1251.7	883.1	388.6	135.5
80°	34.8	37.0	53.3	99.9	313.8	723.9	739.5	713.6	370.1	114.7	32.6
82.5°	16.3	17.0	31.1	55.5	143.6	284.2	284.2	312.4	131.0	64.4	13.3
85°	5.9	5.9	16.3	31.8	60.7	94.7	95.5	96.2	68.8	48.1	5.9
87.5°	2.2	2.2	8.1	13.3	22.2	28.9	28.9	22.9	34.8	31.8	2.2
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°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	311.6	307.2	303.5	298.3	291.6	287.9	288.7	284.2	284.2	282.0	281.3
5°	311.6	307.2	297.6	288.7	282.8	275.4	271.7	268.7	268.7	267.2	268.0
7.5°	313.8	307.2	293.9	282.0	272.4	265.0	259.1	258.3	256.9	253.2	256.1
10°	327.2	317.5	295.3	279.1	268.0	259.8	249.4	246.5	242.0	235.4	236.1
12.5°	338.3	325.7	305.7	283.5	269.4	256.1	232.4	206.5	195.4	183.6	184.3
15°	354.6	336.8	309.4	289.4	269.4	226.5	183.6	150.3	132.5	123.6	123.6
17.5°	363.4	348.6	319.8	293.1	248.0	184.3	130.3	101.4	98.4	99.9	99.9
20°	381.9	362.0	331.6	296.1	212.4	131.0	95.5	92.5	94.0	97.0	96.2
22.5°	393.8	373.8	340.5	282.8	164.3	94.0	89.6	88.1	89.6	93.3	93.3
25°	403.4	390.8	354.6	250.2	116.2	85.1	83.6	85.1	86.6	88.1	90.3
27.5°	427.1	405.6	364.2	208.0	83.6	79.2	80.7	81.4	81.4	83.6	84.4
30°	442.6	425.6	371.6	160.6	74.0	73.3	74.8	75.5	76.2	78.5	79.2
32.5°	457.4	451.5	362.0	108.8	69.6	68.1	67.4	68.1	71.1	73.3	72.5
35°	478.9	475.2	347.9	75.5	65.1	62.2	60.7	61.4	63.7	65.9	65.1
37.5°	504.8	508.5	313.8	65.9	60.7	57.0	54.0	54.0	54.8	57.0	57.7
40°	535.2	544.8	273.9	61.4	57.7	53.3	50.3	46.6	45.9	45.2	45.9
42.5°	590.7	601.8	228.7	58.5	53.3	48.1	43.7	39.2	35.5	33.3	33.3
45°	668.4	659.5	169.5	55.5	51.1	43.7	37.0	31.8	26.6	24.4	24.4
47.5°	775.7	745.4	116.2	52.6	47.4	38.5	31.1	24.4	20.0	17.8	17.8
50°	924.5	824.6	75.5	49.6	45.2	33.3	25.2	17.8	14.8	14.1	14.8
52.5°	1065.2	905.3	60.0	45.9	40.7	28.9	19.2	14.8	13.3	12.6	12.6
55°	1194.7	946.0	53.3	42.2	37.0	23.7	16.3	12.6	11.8	11.1	11.1
57.5°	1304.2	960.0	45.9	37.0	29.6	18.5	13.3	11.1	9.6	8.9	8.9
60°	1399.0	963.7	35.5	29.6	21.5	14.1	11.1	9.6	8.1	6.7	6.7
62.5°	1474.5	937.8	25.2	20.7	14.8	11.1	9.6	6.7	4.4	3.0	2.2
65°	1534.4	886.0	17.0	14.1	9.6	8.1	5.9	3.0	0.7	0.0	0.0
67.5°	1464.1	768.3	13.3	10.4	6.7	5.2	3.0	0.7	0.0	0.0	0.0
70°	1194.0	595.9	9.6	6.7	4.4	1.5	0.7	0.0	0.0	0.0	0.0
72.5°	812.7	384.2	7.4	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
75°	364.9	137.7	5.2	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	88.8	32.6	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.7	8.1	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	3.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	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)