

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: P677117

Luminaire Tested: **CCW-SA-1B-730-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677117
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-730-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

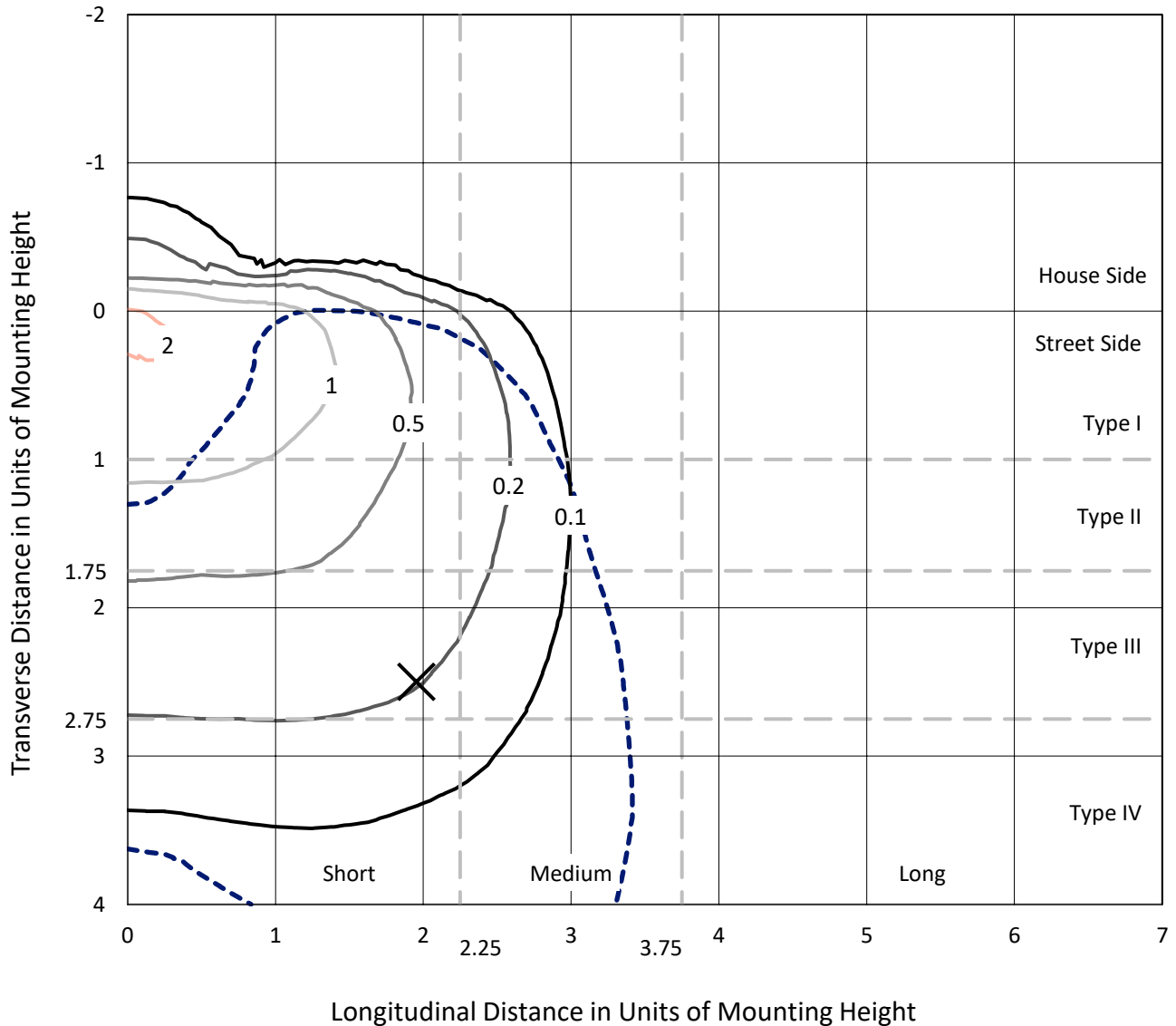
Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

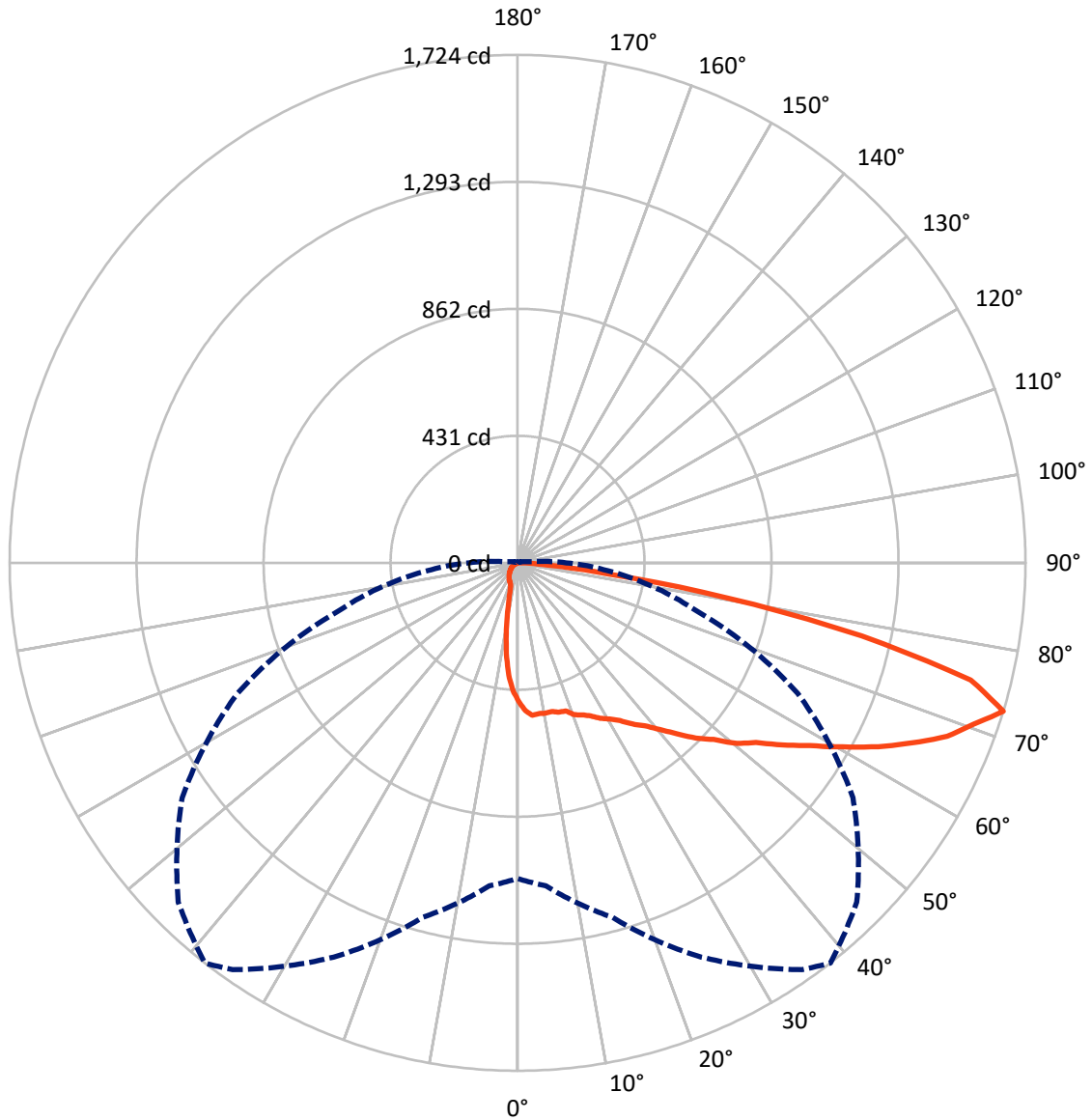
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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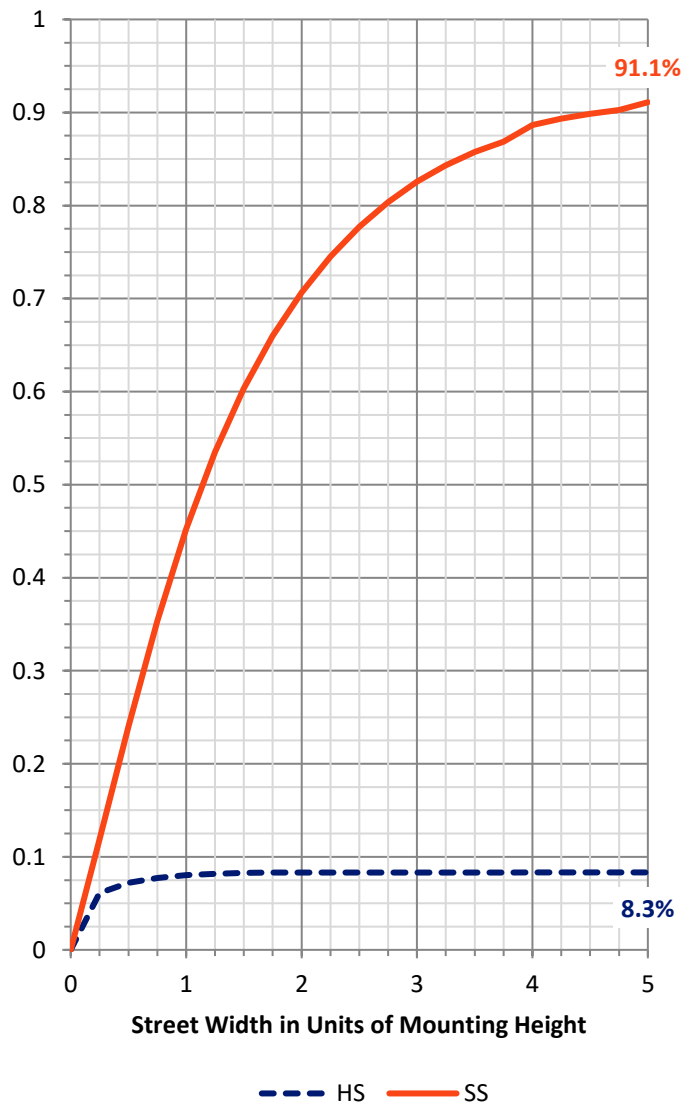
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	217.6	0.0	217.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2380.2	0.0	2380.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	2597.7	0.0	2597.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.6
10°-20°	100.7	3.9
20°-30°	161.4	6.2
30°-40°	243.7	9.4
40°-50°	370.9	14.3
50°-60°	522.1	20.1
60°-70°	637.8	24.6
70°-80°	463.1	17.8
80°-90°	57.0	2.2
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°	2597.7	100.0
0°-180°	2597.7	100.0



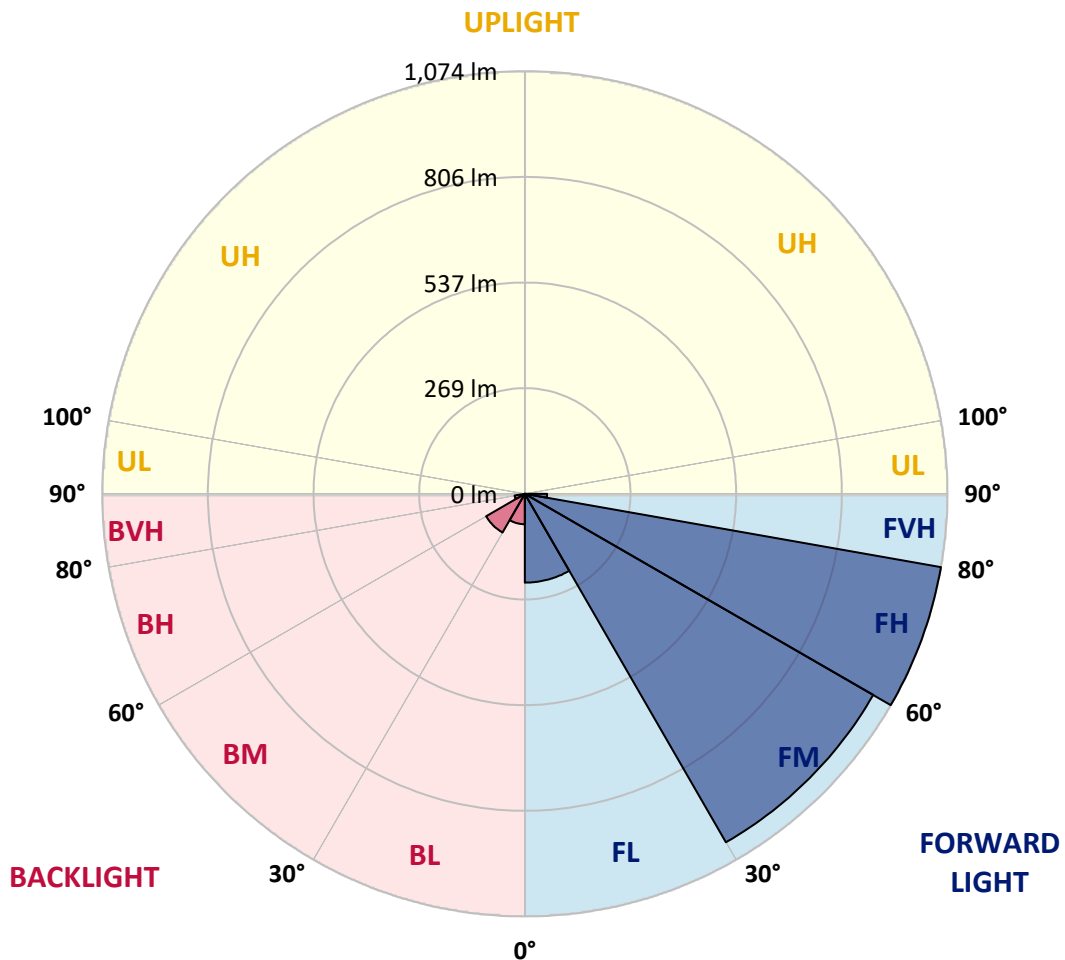
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.9	8.7			
FM (30°-60°)	1023.0	39.4			
FH (60°-80°)	1074.5	41.4			G1/1800
FVH (80°-90°)	56.7	2.2			G1/100
BL (0°-30°)	77.2	3.0	B0/110		
BM (30°-60°)	113.7	4.4	B0/220		
BH (60°-80°)	26.4	1.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8
2.5°	516.1	516.1	521.0	516.1	514.3	502.7	503.3	497.2	491.1	482.6	474.6
5°	522.2	526.4	529.5	525.2	518.5	519.7	524.0	512.4	496.0	485.6	467.9
7.5°	519.7	528.9	526.4	524.0	519.7	516.7	510.6	505.7	497.8	488.1	467.3
10°	517.9	521.0	521.6	519.7	510.6	519.1	512.4	504.5	494.8	483.2	457.6
12.5°	511.2	511.2	516.7	512.4	513.6	517.9	514.9	513.0	502.7	492.9	470.4
15°	503.9	506.3	514.9	521.6	527.7	525.8	524.0	518.5	509.4	498.4	474.6
17.5°	505.7	506.9	520.3	532.5	529.5	528.3	538.0	526.4	517.3	505.1	478.3
20°	512.4	516.1	531.3	547.2	550.2	550.2	546.5	539.8	527.0	510.6	485.0
22.5°	519.1	520.3	545.3	565.4	568.5	560.6	563.6	544.1	531.9	522.8	491.7
25°	544.7	542.3	569.1	584.9	583.1	575.2	572.1	555.1	550.2	533.7	506.3
27.5°	579.4	569.1	595.3	605.0	595.3	597.7	589.2	570.9	560.6	550.8	513.0
30°	600.8	606.9	620.9	630.6	614.2	614.8	610.5	590.4	574.6	577.0	535.6
32.5°	633.7	637.9	648.3	652.6	639.8	638.5	634.3	618.4	606.9	604.4	566.0
35°	669.0	676.9	677.5	678.8	667.2	672.1	666.0	643.4	649.5	653.8	602.6
37.5°	703.7	696.4	708.6	714.1	701.3	701.3	703.1	687.9	698.9	711.7	654.4
40°	717.1	720.2	741.5	737.3	752.5	743.3	750.0	746.4	755.5	784.8	727.5
42.5°	731.2	734.8	763.5	771.4	789.7	792.7	802.4	803.1	829.9	878.0	797.6
45°	758.0	751.9	790.9	810.4	840.2	848.8	860.3	870.1	912.1	968.8	877.4
47.5°	782.3	773.8	818.3	857.3	893.8	895.7	927.4	937.7	987.7	1052.3	956.6
50°	816.5	819.5	838.4	905.4	942.6	963.9	985.8	1020.0	1075.4	1144.3	1013.9
52.5°	851.8	848.8	880.4	946.2	1004.7	1012.7	1062.0	1100.4	1160.7	1212.5	1039.5
55°	895.1	898.7	910.9	997.4	1071.8	1090.6	1146.1	1186.3	1252.1	1241.8	1048.0
57.5°	938.3	934.7	962.1	1054.7	1155.8	1169.9	1243.6	1267.3	1311.8	1261.3	1026.7
60°	981.0	987.7	999.3	1119.3	1247.8	1268.6	1327.1	1339.2	1349.0	1270.4	1010.2
62.5°	1029.7	1013.9	1049.8	1187.5	1330.7	1374.0	1420.3	1372.1	1363.6	1253.9	972.4
65°	1054.1	1059.0	1105.9	1265.5	1441.0	1472.7	1478.8	1416.6	1372.8	1217.4	937.1
67.5°	1091.9	1098.6	1158.3	1345.3	1554.3	1572.0	1550.1	1456.8	1364.8	1169.9	809.8
70°	1096.7	1113.2	1228.4	1428.8	1625.6	1640.8	1623.8	1483.6	1300.9	982.8	599.6
72.5°	1071.2	1100.4	1245.4	1476.3	1685.3	1723.7	1628.1	1389.2	1048.6	627.0	307.1
75°	809.2	833.5	1140.0	1405.7	1579.3	1588.4	1429.4	1060.2	597.1	213.9	78.6
77.5°	419.2	461.2	761.0	1074.2	1203.4	1193.6	995.0	624.5	205.3	56.1	31.7
80°	240.7	251.0	332.7	603.2	756.8	719.6	550.2	269.3	90.2	28.0	20.7
82.5°	118.8	133.4	179.1	269.9	378.4	311.4	206.6	161.5	50.6	15.2	18.3
85°	25.6	26.8	91.4	129.2	153.5	101.1	70.7	135.9	18.3	9.1	17.7
87.5°	18.3	17.7	25.6	57.9	42.7	26.2	42.0	71.3	4.3	4.3	3.7
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°	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8	469.8
2.5°	469.8	464.3	458.2	446.6	443.6	441.7	431.4	430.8	428.9	424.7	422.9
5°	457.0	447.8	436.3	424.1	414.3	396.7	375.3	364.4	351.0	351.6	347.3
7.5°	455.1	438.1	421.6	396.0	365.0	332.1	299.2	277.8	262.6	253.5	255.3
10°	446.6	433.8	407.0	359.5	309.5	259.6	217.5	185.8	167.6	153.5	157.8
12.5°	450.3	425.3	387.5	324.1	252.9	191.3	138.9	108.5	95.1	90.2	91.4
15°	447.8	425.3	375.9	285.8	198.6	129.8	90.2	80.4	78.0	78.0	76.8
17.5°	455.1	430.2	356.4	248.0	142.6	86.5	77.4	75.6	73.7	73.7	73.7
20°	465.5	432.6	343.0	205.9	100.5	76.2	72.5	71.3	70.7	70.7	70.1
22.5°	466.1	430.2	318.1	159.6	77.4	71.9	68.9	68.2	68.2	67.0	67.0
25°	469.8	432.6	291.2	120.0	71.9	67.6	65.2	64.6	65.2	64.6	64.0
27.5°	478.9	436.9	264.4	87.7	67.6	64.0	62.1	61.5	61.5	61.5	60.3
30°	490.5	436.9	234.6	72.5	64.0	60.3	58.5	57.9	57.3	57.3	57.3
32.5°	514.9	450.9	198.0	64.6	59.1	56.1	54.2	54.2	53.6	53.6	53.0
35°	545.3	460.6	160.9	59.7	54.8	51.8	50.0	50.0	49.4	49.4	48.7
37.5°	583.1	485.0	123.1	56.1	50.6	47.5	45.7	45.7	45.7	45.1	45.1
40°	636.7	510.0	91.4	51.2	46.3	43.3	42.0	41.4	40.8	40.8	39.6
42.5°	694.0	548.4	68.2	47.5	42.7	40.2	38.4	36.6	36.6	34.7	34.7
45°	756.1	581.9	55.4	43.3	39.0	35.9	34.1	32.9	31.1	29.9	29.9
47.5°	817.1	602.6	48.7	38.4	35.3	32.9	31.1	28.6	26.2	25.6	25.0
50°	866.4	608.7	43.3	34.7	32.3	29.9	27.4	24.4	21.9	20.7	20.1
52.5°	866.4	575.2	39.0	31.1	29.2	26.8	23.8	20.1	17.1	15.8	15.2
55°	866.4	522.2	34.7	28.6	26.2	24.4	20.1	16.5	13.4	11.6	11.0
57.5°	853.6	458.2	31.1	25.6	23.2	20.7	17.1	12.8	9.7	7.9	7.9
60°	818.3	391.2	26.8	22.5	20.1	17.1	13.4	9.1	6.1	4.3	4.3
62.5°	773.2	311.4	23.2	18.9	16.5	14.0	10.4	6.1	2.4	1.2	1.2
65°	694.6	229.7	20.1	15.8	12.8	10.4	6.7	2.4	0.0	0.0	0.0
67.5°	573.4	153.5	15.8	12.8	11.0	7.3	4.3	0.6	0.0	0.0	0.0
70°	403.4	87.1	12.2	9.1	7.9	4.9	1.2	0.0	0.0	0.0	0.0
72.5°	165.7	38.4	8.5	6.7	5.5	2.4	0.0	0.0	0.0	0.0	0.0
75°	45.1	17.1	5.5	3.7	3.0	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	26.2	11.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.7	5.5	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.7	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)