

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: P677139

Luminaire Tested: **CCW-SA-1B-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677139
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

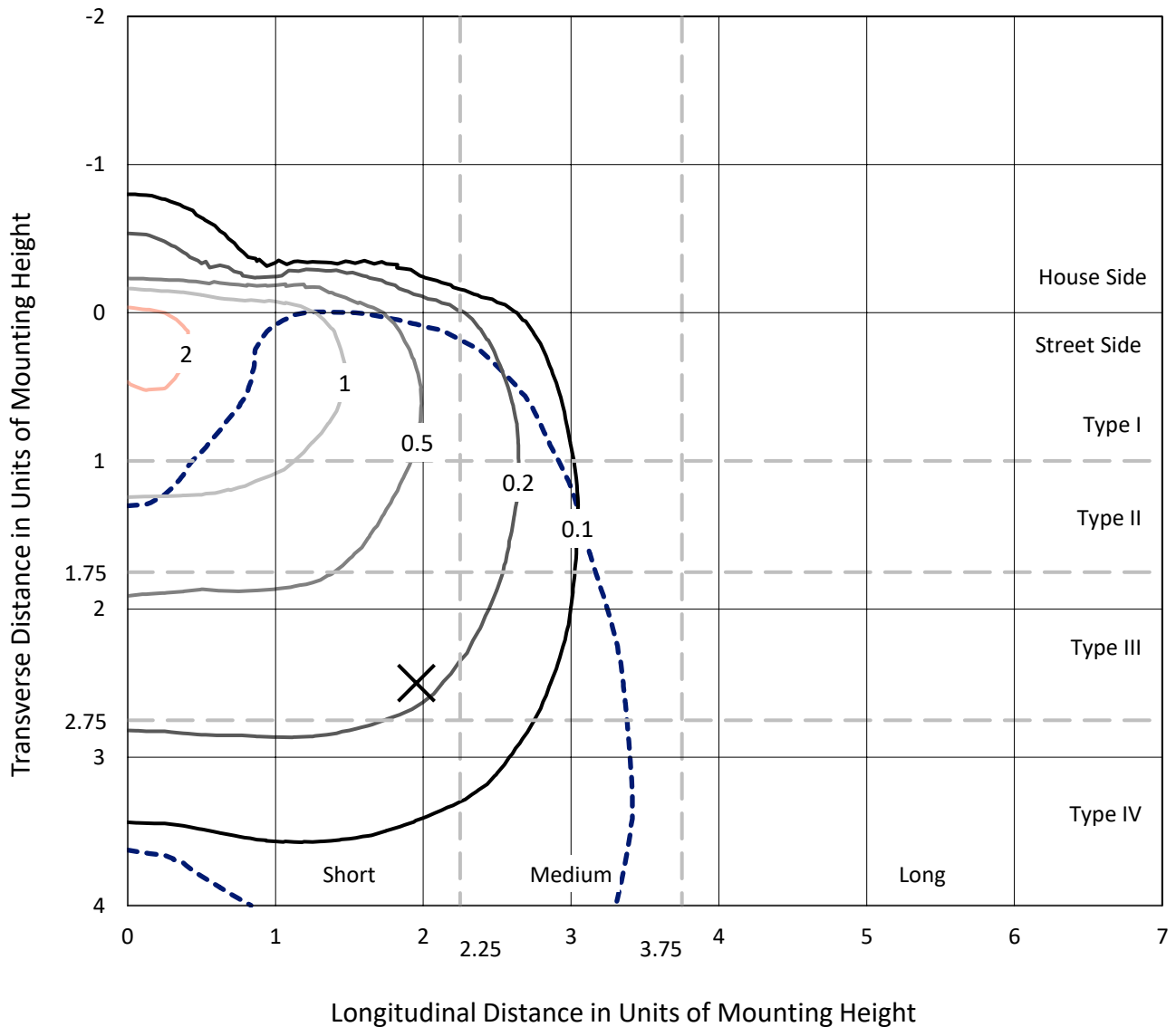
Lumens per Lamp: N/A
Luminaire Lumens: 2852.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (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

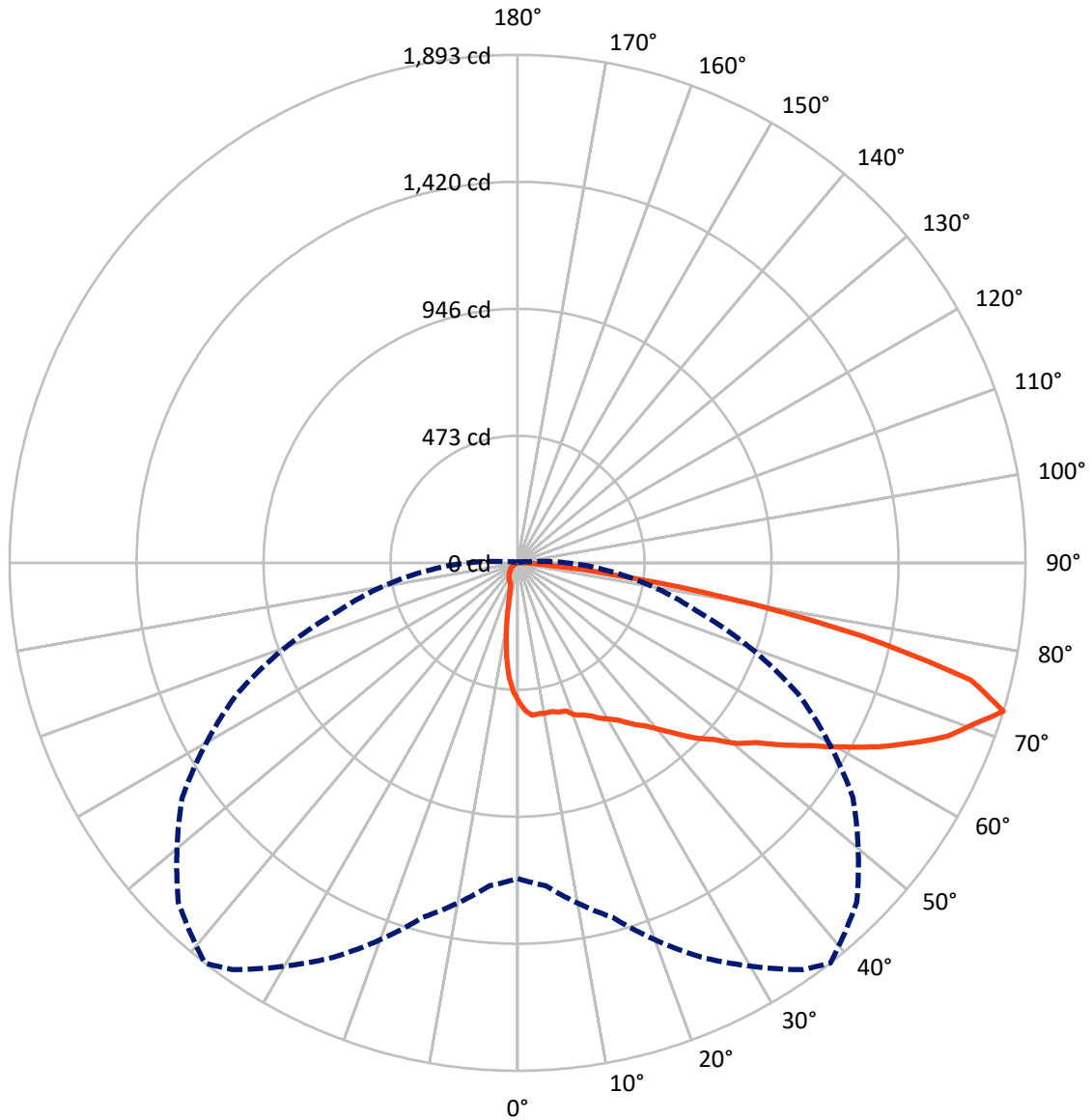
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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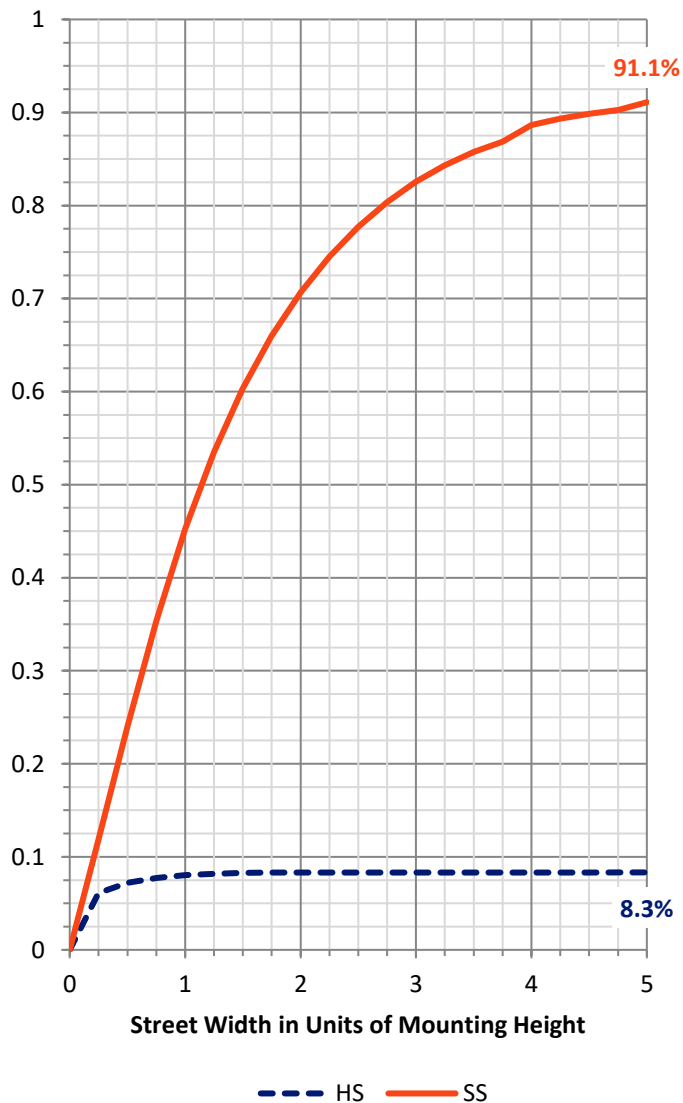
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	238.9	0.0	238.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2613.8	0.0	2613.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	2852.8	0.0	2852.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.6
10°-20°	110.6	3.9
20°-30°	177.2	6.2
30°-40°	267.6	9.4
40°-50°	407.3	14.3
50°-60°	573.4	20.1
60°-70°	700.4	24.6
70°-80°	508.6	17.8
80°-90°	62.6	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°	2852.8	100.0
0°-180°	2852.8	100.0

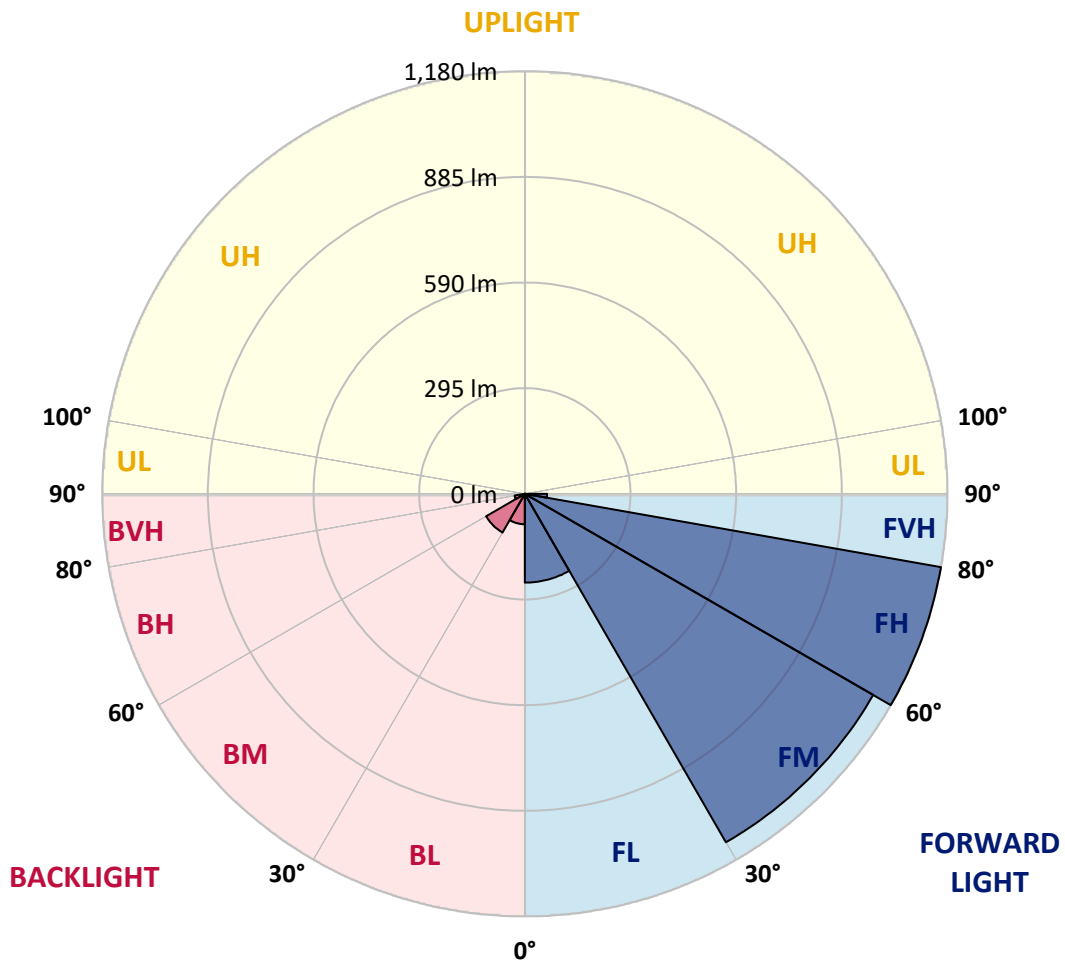


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.1	8.7			
FM (30°-60°)	1123.4	39.4			
FH (60°-80°)	1180.0	41.4			G1/1800
FVH (80°-90°)	62.3	2.2			G1/100
BL (0°-30°)	84.8	3.0	B0/110		
BM (30°-60°)	124.8	4.4	B0/220		
BH (60°-80°)	29.0	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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	566.7	566.7	572.1	566.7	564.7	552.0	552.7	546.0	539.3	529.9	521.2
5°	573.4	578.1	581.5	576.8	569.4	570.8	575.4	562.7	544.7	533.3	513.9
7.5°	570.8	580.8	578.1	575.4	570.8	567.4	560.7	555.4	546.7	536.0	513.2
10°	568.8	572.1	572.8	570.8	560.7	570.1	562.7	554.0	543.3	530.6	502.5
12.5°	561.4	561.4	567.4	562.7	564.1	568.8	565.4	563.4	552.0	541.3	516.6
15°	553.4	556.0	565.4	572.8	579.5	577.5	575.4	569.4	559.4	547.3	521.2
17.5°	555.4	556.7	571.4	584.8	581.5	580.1	590.8	578.1	568.1	554.7	525.3
20°	562.7	566.7	583.5	600.9	604.2	604.2	600.2	592.8	578.8	560.7	532.6
22.5°	570.1	571.4	598.9	620.9	624.3	615.6	618.9	597.5	584.1	574.1	540.0
25°	598.2	595.5	625.0	642.4	640.3	631.6	628.3	609.6	604.2	586.1	556.0
27.5°	636.3	625.0	653.7	664.4	653.7	656.4	647.0	627.0	615.6	604.9	563.4
30°	659.8	666.4	681.8	692.5	674.5	675.1	670.5	648.4	631.0	633.7	588.2
32.5°	695.9	700.6	711.9	716.6	702.6	701.2	696.6	679.2	666.4	663.8	621.6
35°	734.7	743.4	744.1	745.4	732.7	738.0	731.3	706.6	713.3	718.0	661.8
37.5°	772.8	764.8	778.2	784.2	770.2	770.2	772.2	755.4	767.5	781.5	718.6
40°	787.6	790.9	814.3	809.6	826.4	816.3	823.7	819.7	829.7	861.8	798.9
42.5°	802.9	807.0	838.4	847.1	867.2	870.5	881.2	881.9	911.3	964.2	875.9
45°	832.4	825.7	868.5	889.9	922.7	932.1	944.8	955.5	1001.7	1063.9	963.5
47.5°	859.2	849.8	898.6	941.5	981.6	983.6	1018.4	1029.8	1084.6	1155.6	1050.5
50°	896.6	900.0	920.7	994.3	1035.1	1058.5	1082.6	1120.1	1181.0	1256.6	1113.4
52.5°	935.4	932.1	966.9	1039.1	1103.4	1112.1	1166.3	1208.4	1274.7	1331.5	1141.5
55°	982.9	987.0	1000.3	1095.3	1177.0	1197.7	1258.6	1302.8	1375.0	1363.7	1150.9
57.5°	1030.4	1026.4	1056.5	1158.2	1269.3	1284.7	1365.7	1391.8	1440.6	1385.1	1127.5
60°	1077.3	1084.6	1097.4	1229.2	1370.4	1393.1	1457.3	1470.7	1481.4	1395.1	1109.4
62.5°	1130.8	1113.4	1152.9	1304.1	1461.4	1508.9	1559.7	1506.9	1497.5	1377.0	1067.9
65°	1157.6	1162.9	1214.5	1389.8	1582.5	1617.3	1624.0	1555.7	1507.5	1336.9	1029.1
67.5°	1199.1	1206.4	1272.0	1477.4	1706.9	1726.3	1702.2	1599.9	1498.8	1284.7	889.3
70°	1204.4	1222.5	1348.9	1569.1	1785.2	1801.9	1783.2	1629.3	1428.6	1079.3	658.4
72.5°	1176.3	1208.4	1367.7	1621.3	1850.8	1892.9	1787.9	1525.6	1151.6	688.5	337.2
75°	888.6	915.4	1251.9	1543.7	1734.4	1744.4	1569.8	1164.3	655.7	234.9	86.3
77.5°	460.4	506.5	835.7	1179.7	1321.5	1310.8	1092.7	685.8	225.5	61.6	34.8
80°	264.3	275.7	365.3	662.4	831.0	790.2	604.2	295.8	99.0	30.8	22.8
82.5°	130.5	146.5	196.7	296.4	415.5	341.9	226.8	177.3	55.5	16.7	20.1
85°	28.1	29.4	100.4	141.9	168.6	111.1	77.6	149.2	20.1	10.0	19.4
87.5°	20.1	19.4	28.1	63.6	46.8	28.8	46.2	78.3	4.7	4.7	4.0
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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	515.9	509.9	503.2	490.5	487.1	485.1	473.7	473.1	471.1	466.4	464.4
5°	501.8	491.8	479.1	465.7	455.0	435.6	412.2	400.1	385.4	386.1	381.4
7.5°	499.8	481.1	463.0	434.9	400.8	364.7	328.5	305.1	288.4	278.4	280.4
10°	490.5	476.4	447.0	394.8	339.9	285.0	238.9	204.1	184.0	168.6	173.3
12.5°	494.5	467.0	425.6	356.0	277.7	210.1	152.6	119.1	104.4	99.0	100.4
15°	491.8	467.0	412.8	313.8	218.1	142.5	99.0	88.3	85.6	85.6	84.3
17.5°	499.8	472.4	391.4	272.3	156.6	95.0	85.0	83.0	81.0	81.0	81.0
20°	511.2	475.1	376.7	226.2	110.4	83.6	79.6	78.3	77.6	77.6	76.9
22.5°	511.9	472.4	349.3	175.3	85.0	79.0	75.6	74.9	74.9	73.6	73.6
25°	515.9	475.1	319.8	131.8	79.0	74.3	71.6	70.9	71.6	70.9	70.3
27.5°	525.9	479.8	290.4	96.4	74.3	70.3	68.3	67.6	67.6	67.6	66.2
30°	538.6	479.8	257.6	79.6	70.3	66.2	64.2	63.6	62.9	62.9	62.9
32.5°	565.4	495.1	217.5	70.9	64.9	61.6	59.6	59.6	58.9	58.9	58.2
35°	598.9	505.9	176.6	65.6	60.2	56.9	54.9	54.9	54.2	54.2	53.5
37.5°	640.3	532.6	135.2	61.6	55.5	52.2	50.2	50.2	50.2	49.5	49.5
40°	699.2	560.1	100.4	56.2	50.9	47.5	46.2	45.5	44.8	44.8	43.5
42.5°	762.1	602.2	74.9	52.2	46.8	44.2	42.2	40.1	40.1	38.1	38.1
45°	830.4	639.0	60.9	47.5	42.8	39.5	37.5	36.1	34.1	32.8	32.8
47.5°	897.3	661.8	53.5	42.2	38.8	36.1	34.1	31.4	28.8	28.1	27.4
50°	951.5	668.5	47.5	38.1	35.5	32.8	30.1	26.8	24.1	22.8	22.1
52.5°	951.5	631.6	42.8	34.1	32.1	29.4	26.1	22.1	18.7	17.4	16.7
55°	951.5	573.4	38.1	31.4	28.8	26.8	22.1	18.1	14.7	12.7	12.0
57.5°	937.4	503.2	34.1	28.1	25.4	22.8	18.7	14.1	10.7	8.7	8.7
60°	898.6	429.6	29.4	24.8	22.1	18.7	14.7	10.0	6.7	4.7	4.7
62.5°	849.1	341.9	25.4	20.7	18.1	15.4	11.4	6.7	2.7	1.3	1.3
65°	762.8	252.3	22.1	17.4	14.1	11.4	7.4	2.7	0.0	0.0	0.0
67.5°	629.6	168.6	17.4	14.1	12.0	8.0	4.7	0.7	0.0	0.0	0.0
70°	443.0	95.7	13.4	10.0	8.7	5.4	1.3	0.0	0.0	0.0	0.0
72.5°	182.0	42.2	9.4	7.4	6.0	2.7	0.0	0.0	0.0	0.0	0.0
75°	49.5	18.7	6.0	4.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	28.8	12.7	2.7	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.8	6.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	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)