

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: P677194

Luminaire Tested: **CCW-SA-1B-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677194
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-835-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) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

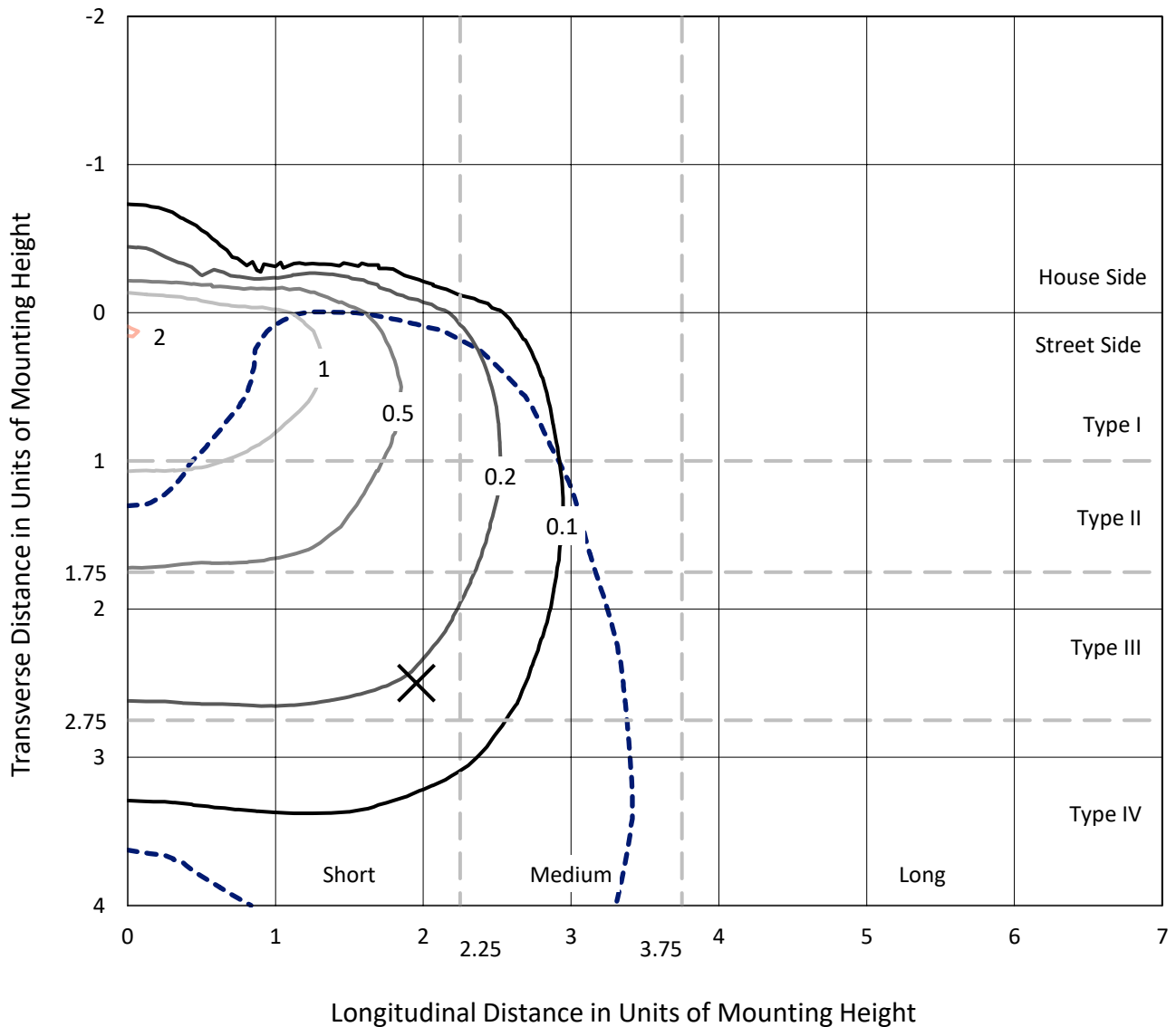
Lumens per Lamp: N/A
Luminaire Lumens: 2350.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

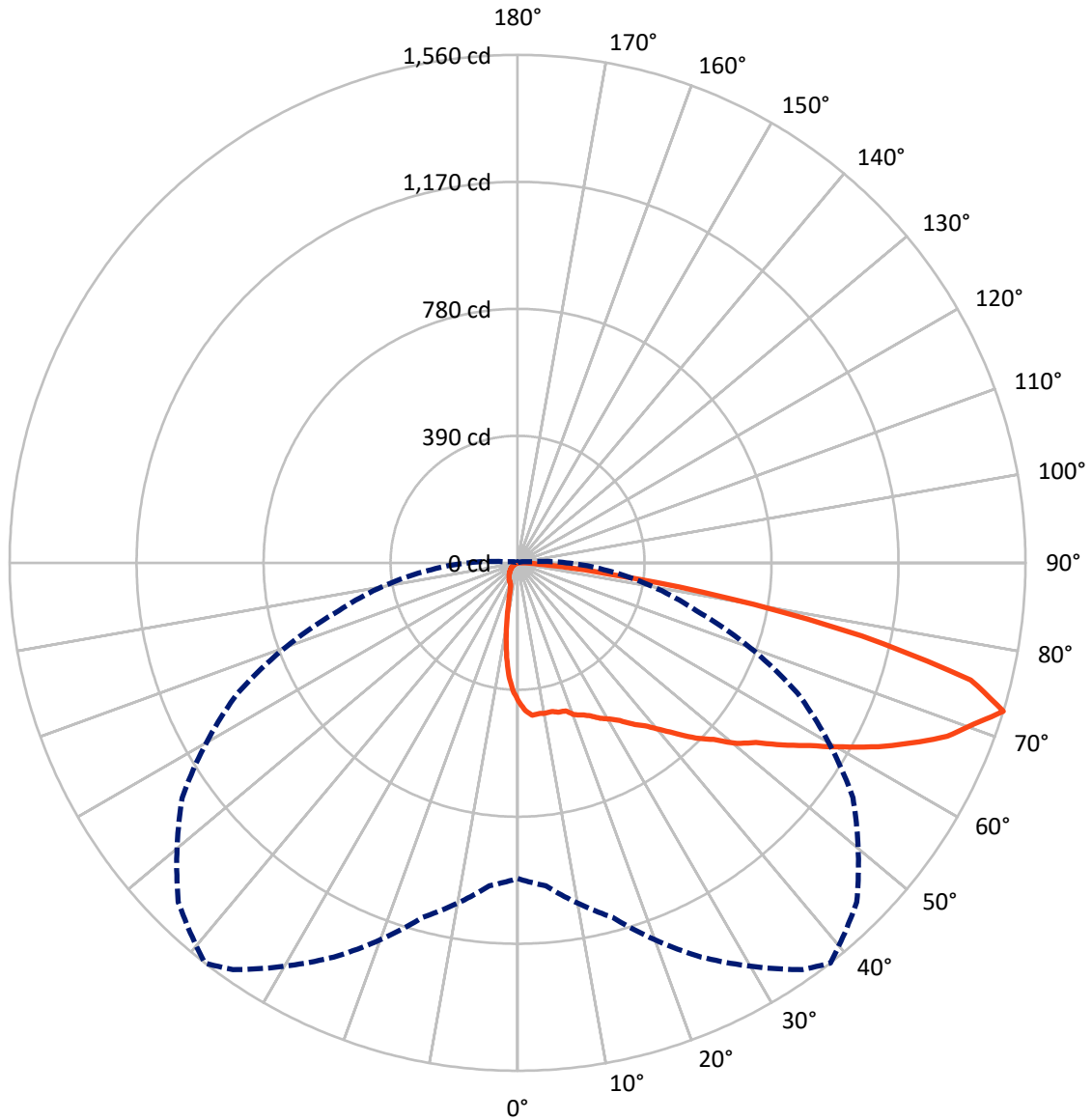
× Max cd
 - - - 1/2 Max cd



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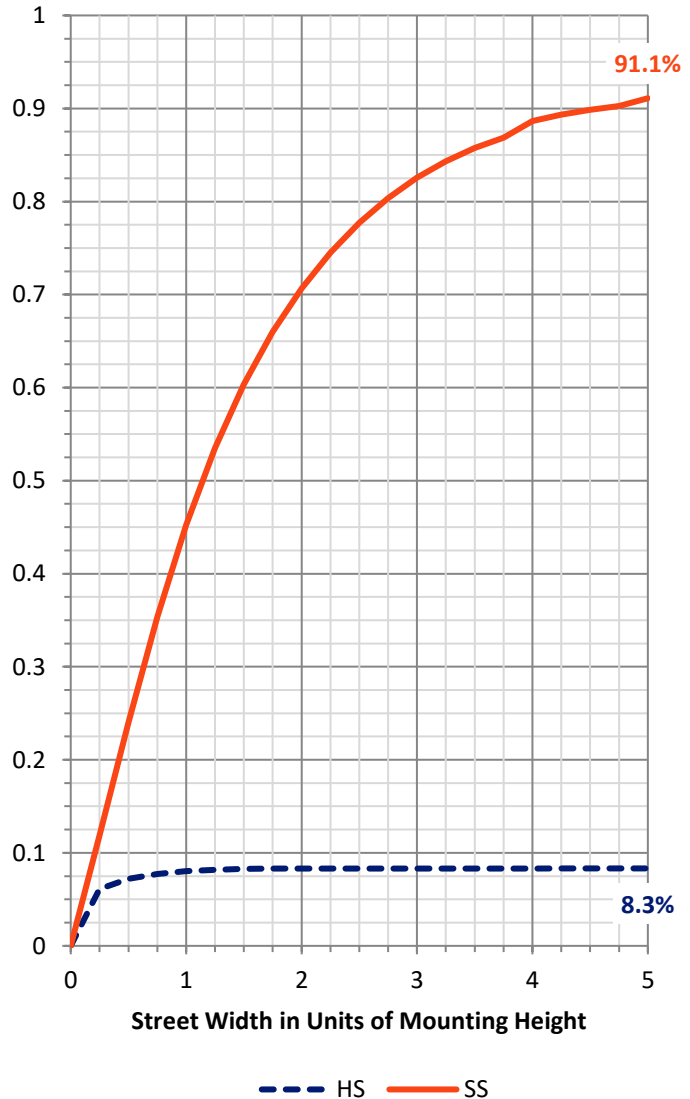
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	196.9	0.0	196.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2153.8	0.0	2153.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	2350.7	0.0	2350.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.6
10°-20°	91.1	3.9
20°-30°	146.0	6.2
30°-40°	220.5	9.4
40°-50°	335.6	14.3
50°-60°	472.5	20.1
60°-70°	577.1	24.6
70°-80°	419.1	17.8
80°-90°	51.6	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°	2350.7	100.0
0°-180°	2350.7	100.0

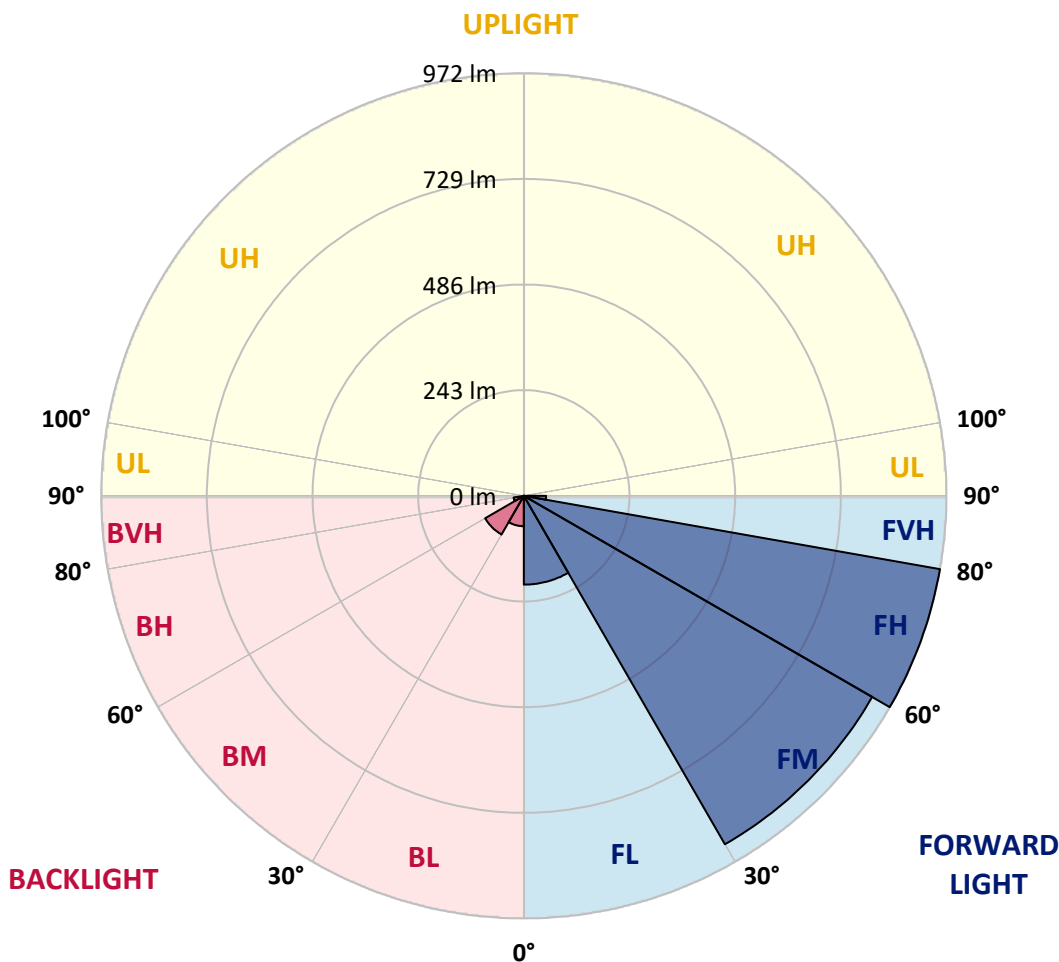


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.5	8.7			
FM (30°-60°)	925.7	39.4			
FH (60°-80°)	972.3	41.4			G1/1800
FVH (80°-90°)	51.3	2.2			G1/100
BL (0°-30°)	69.9	3.0	B0/110		
BM (30°-60°)	102.8	4.4	B0/220		
BH (60°-80°)	23.9	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°	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1
2.5°	467.0	467.0	471.4	467.0	465.3	454.9	455.4	449.9	444.4	436.7	429.5
5°	472.5	476.4	479.1	475.3	469.2	470.3	474.2	463.7	448.8	439.4	423.4
7.5°	470.3	478.6	476.4	474.2	470.3	467.5	462.0	457.6	450.5	441.6	422.9
10°	468.7	471.4	472.0	470.3	462.0	469.8	463.7	456.5	447.7	437.2	414.1
12.5°	462.6	462.6	467.5	463.7	464.8	468.7	465.9	464.2	454.9	446.0	425.6
15°	456.0	458.2	465.9	472.0	477.5	475.8	474.2	469.2	460.9	451.0	429.5
17.5°	457.6	458.7	470.9	481.9	479.1	478.0	486.8	476.4	468.1	457.1	432.8
20°	463.7	467.0	480.8	495.1	497.9	497.9	494.6	488.5	476.9	462.0	438.9
22.5°	469.8	470.9	493.5	511.7	514.4	507.2	510.0	492.4	481.3	473.1	444.9
25°	492.9	490.7	515.0	529.3	527.6	520.5	517.7	502.3	497.9	483.0	458.2
27.5°	524.3	515.0	538.7	547.5	538.7	540.9	533.2	516.6	507.2	498.4	464.2
30°	543.6	549.1	561.8	570.7	555.8	556.3	552.5	534.3	519.9	522.1	484.6
32.5°	573.4	577.3	586.6	590.5	578.9	577.8	574.0	559.6	549.1	546.9	512.2
35°	605.4	612.6	613.1	614.2	603.7	608.1	602.6	582.2	587.7	591.6	545.3
37.5°	636.8	630.2	641.2	646.2	634.6	634.6	636.3	622.5	632.4	644.0	592.2
40°	648.9	651.7	671.0	667.1	680.9	672.7	678.7	675.4	683.7	710.1	658.3
42.5°	661.6	664.9	690.8	698.0	714.6	717.3	726.1	726.7	750.9	794.5	721.7
45°	685.9	680.4	715.7	733.3	760.3	768.0	778.5	787.3	825.4	876.7	794.0
47.5°	707.9	700.2	740.5	775.8	808.8	810.5	839.2	848.5	893.7	952.2	865.6
50°	738.8	741.6	758.7	819.3	852.9	872.2	892.1	923.0	973.1	1035.4	917.5
52.5°	770.8	768.0	796.7	856.3	909.2	916.4	961.0	995.7	1050.3	1097.2	940.6
55°	809.9	813.2	824.3	902.6	969.8	986.9	1037.1	1073.5	1133.0	1123.7	948.3
57.5°	849.1	845.8	870.6	954.4	1045.9	1058.6	1125.3	1146.8	1187.1	1141.3	929.0
60°	887.7	893.7	904.2	1012.8	1129.2	1147.9	1200.9	1211.9	1220.7	1149.6	914.1
62.5°	931.8	917.5	950.0	1074.6	1204.2	1243.3	1285.2	1241.7	1233.9	1134.7	880.0
65°	953.8	958.3	1000.7	1145.2	1304.0	1332.6	1338.1	1281.9	1242.2	1101.6	848.0
67.5°	988.0	994.1	1048.1	1217.4	1406.5	1422.5	1402.6	1318.3	1235.0	1058.6	732.8
70°	992.4	1007.3	1111.5	1292.9	1471.0	1484.8	1469.4	1342.5	1177.1	889.3	542.5
72.5°	969.3	995.7	1127.0	1335.9	1525.0	1559.8	1473.2	1257.1	948.9	567.3	277.9
75°	732.2	754.3	1031.6	1272.0	1429.1	1437.4	1293.5	959.4	540.3	193.5	71.1
77.5°	379.3	417.4	688.6	972.0	1088.9	1080.1	900.4	565.1	185.8	50.7	28.7
80°	217.8	227.2	301.0	545.8	684.8	651.2	497.9	243.7	81.6	25.4	18.7
82.5°	107.5	120.7	162.1	244.3	342.4	281.7	186.9	146.1	45.8	13.8	16.5
85°	23.2	24.3	82.7	116.9	138.9	91.5	64.0	123.0	16.5	8.3	16.0
87.5°	16.5	16.0	23.2	52.4	38.6	23.7	38.0	64.5	3.9	3.9	3.3
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°	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1	425.1
2.5°	425.1	420.1	414.6	404.1	401.4	399.7	390.4	389.8	388.2	384.3	382.6
5°	413.5	405.2	394.8	383.7	374.9	358.9	339.6	329.7	317.6	318.1	314.3
7.5°	411.9	396.4	381.5	358.4	330.3	300.5	270.7	251.4	237.6	229.4	231.0
10°	404.1	392.6	368.3	325.3	280.1	234.9	196.8	168.2	151.6	138.9	142.8
12.5°	407.5	384.8	350.7	293.3	228.8	173.1	125.7	98.1	86.0	81.6	82.7
15°	405.2	384.8	340.2	258.6	179.7	117.4	81.6	72.8	70.6	70.6	69.5
17.5°	411.9	389.3	322.5	224.4	129.0	78.3	70.0	68.4	66.7	66.7	66.7
20°	421.2	391.5	310.4	186.4	91.0	68.9	65.6	64.5	64.0	64.0	63.4
22.5°	421.8	389.3	287.8	144.5	70.0	65.1	62.3	61.8	61.8	60.6	60.6
25°	425.1	391.5	263.5	108.6	65.1	61.2	59.0	58.4	59.0	58.4	57.9
27.5°	433.4	395.3	239.3	79.4	61.2	57.9	56.2	55.7	55.7	55.7	54.6
30°	443.8	395.3	212.3	65.6	57.9	54.6	52.9	52.4	51.8	51.8	51.8
32.5°	465.9	408.0	179.2	58.4	53.5	50.7	49.1	49.1	48.5	48.5	48.0
35°	493.5	416.8	145.6	54.0	49.6	46.9	45.2	45.2	44.7	44.7	44.1
37.5°	527.6	438.9	111.4	50.7	45.8	43.0	41.4	41.4	41.4	40.8	40.8
40°	576.2	461.5	82.7	46.3	41.9	39.1	38.0	37.5	36.9	36.9	35.8
42.5°	628.0	496.2	61.8	43.0	38.6	36.4	34.7	33.1	33.1	31.4	31.4
45°	684.2	526.5	50.2	39.1	35.3	32.5	30.9	29.8	28.1	27.0	27.0
47.5°	739.4	545.3	44.1	34.7	32.0	29.8	28.1	25.9	23.7	23.2	22.6
50°	784.0	550.8	39.1	31.4	29.2	27.0	24.8	22.1	19.8	18.7	18.2
52.5°	784.0	520.5	35.3	28.1	26.5	24.3	21.5	18.2	15.4	14.3	13.8
55°	784.0	472.5	31.4	25.9	23.7	22.1	18.2	14.9	12.1	10.5	9.9
57.5°	772.4	414.6	28.1	23.2	21.0	18.7	15.4	11.6	8.8	7.2	7.2
60°	740.5	354.0	24.3	20.4	18.2	15.4	12.1	8.3	5.5	3.9	3.9
62.5°	699.7	281.7	21.0	17.1	14.9	12.7	9.4	5.5	2.2	1.1	1.1
65°	628.5	207.9	18.2	14.3	11.6	9.4	6.1	2.2	0.0	0.0	0.0
67.5°	518.8	138.9	14.3	11.6	9.9	6.6	3.9	0.6	0.0	0.0	0.0
70°	365.0	78.8	11.0	8.3	7.2	4.4	1.1	0.0	0.0	0.0	0.0
72.5°	150.0	34.7	7.7	6.1	5.0	2.2	0.0	0.0	0.0	0.0	0.0
75°	40.8	15.4	5.0	3.3	2.8	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	23.7	10.5	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.7	5.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)