

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: P677096

Luminaire Tested: **CCW-SA-1C-722-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677096
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-722-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

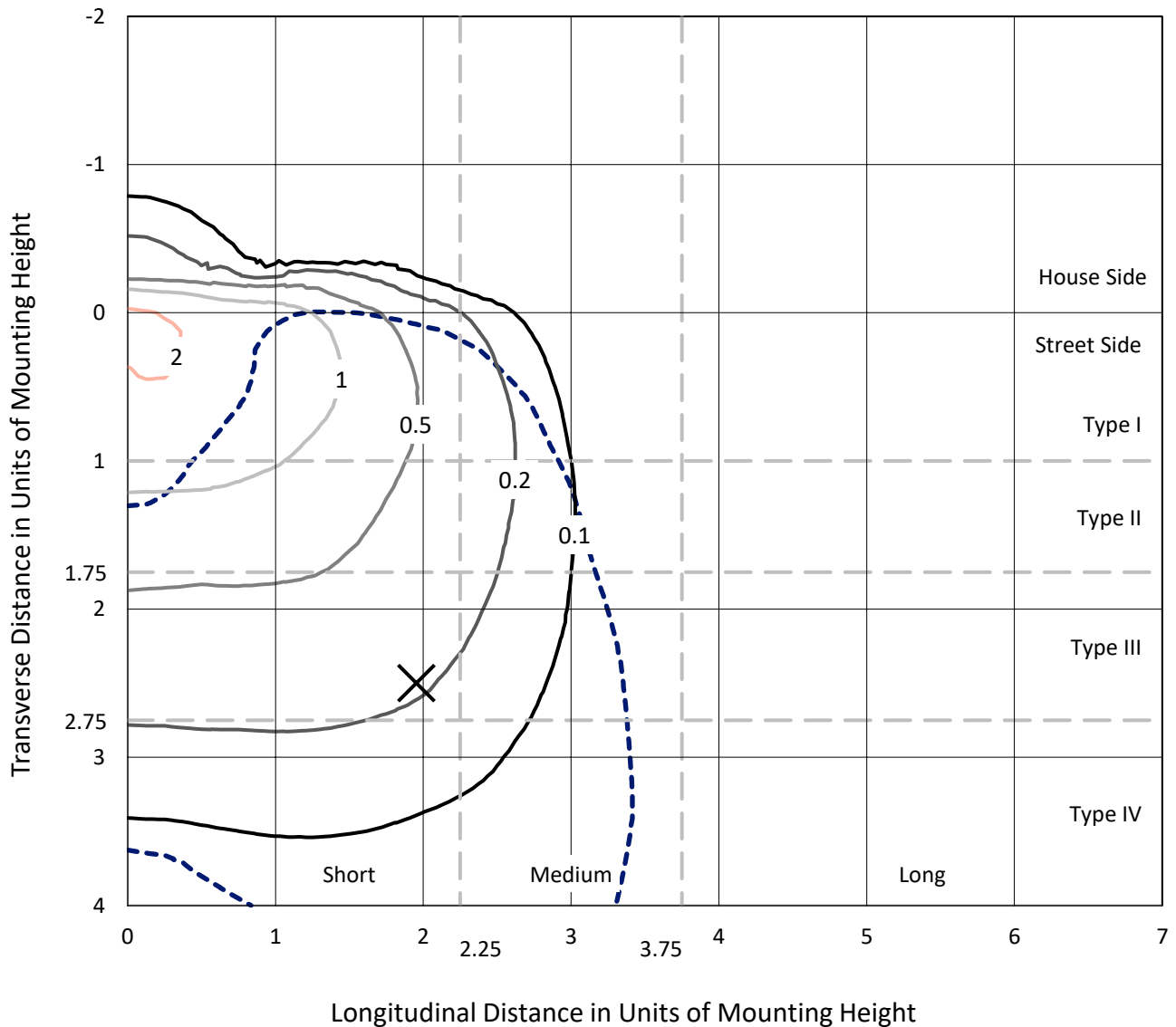
Lumens per Lamp: N/A
Luminaire Lumens: 2751 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

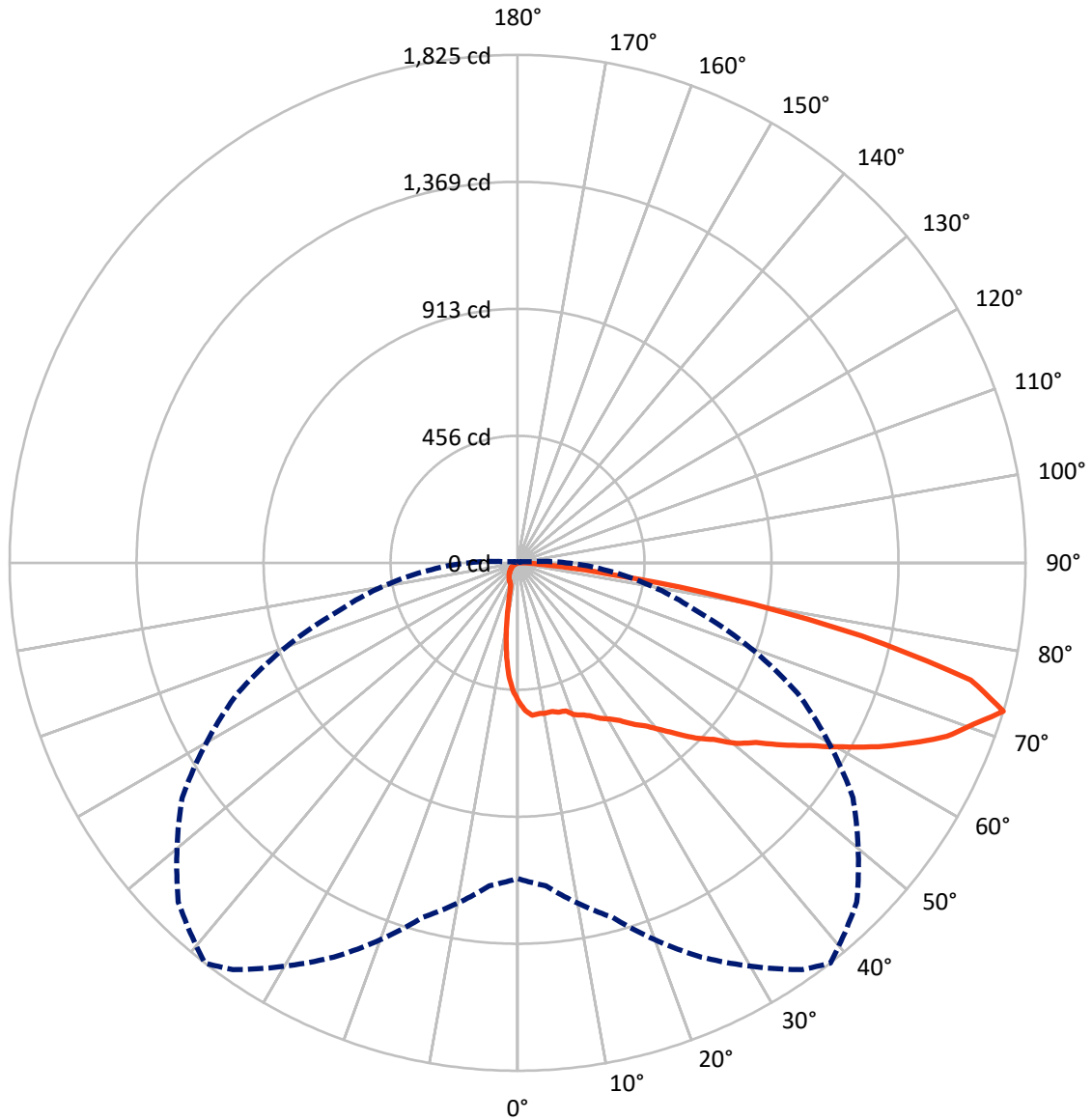
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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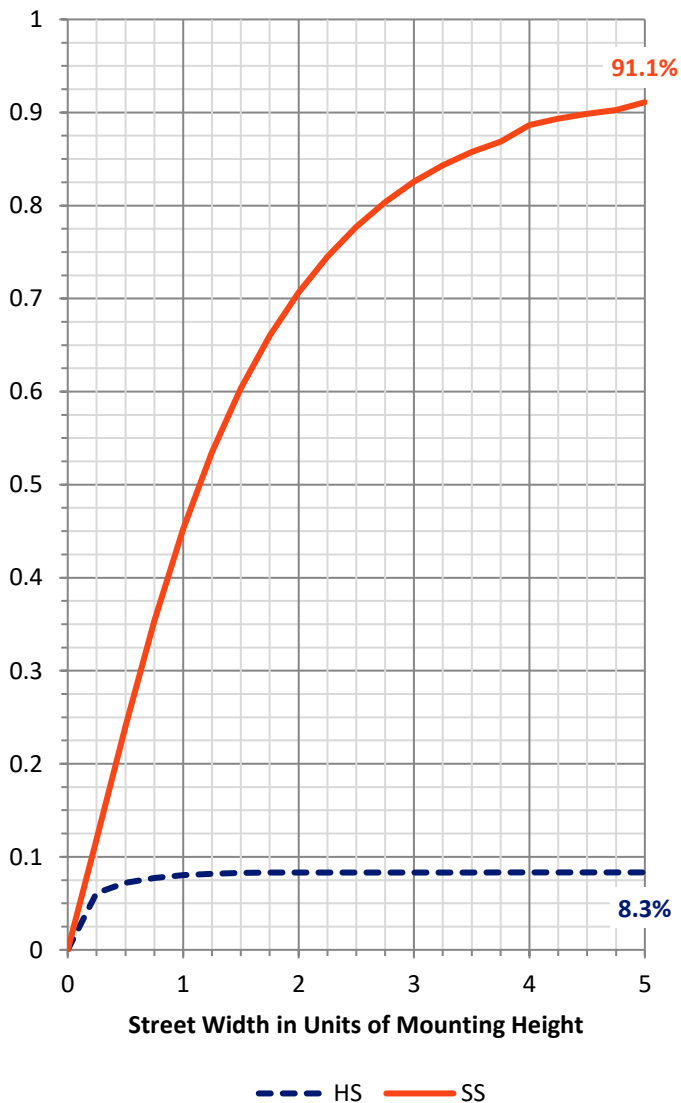
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.4	0.0	230.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2520.6	0.0	2520.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	2751.0	0.0	2751.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.6
10°-20°	106.6	3.9
20°-30°	170.9	6.2
30°-40°	258.0	9.4
40°-50°	392.7	14.3
50°-60°	552.9	20.1
60°-70°	675.4	24.6
70°-80°	490.4	17.8
80°-90°	60.4	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°	2751.0	100.0
0°-180°	2751.0	100.0

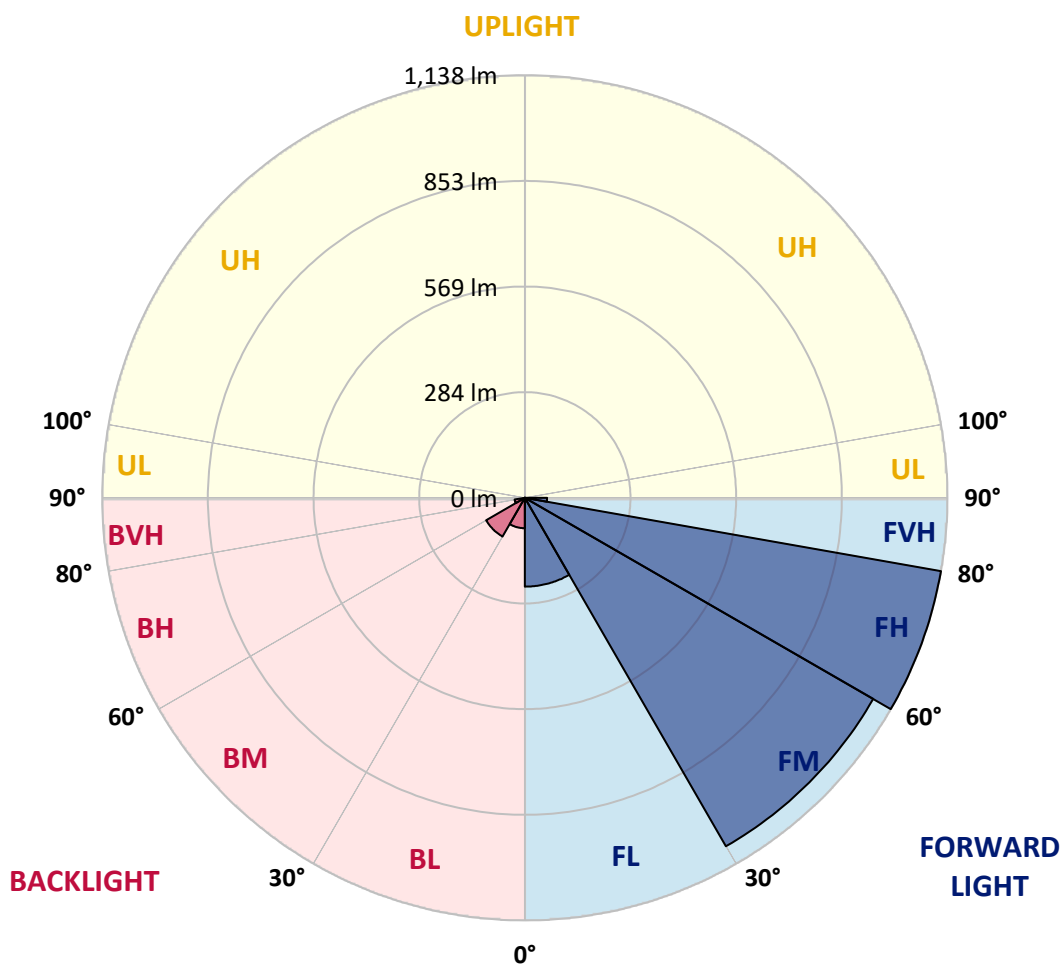


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.3	8.7			
FM (30°-60°)	1083.3	39.4			
FH (60°-80°)	1137.9	41.4			G1/1800
FVH (80°-90°)	60.1	2.2			G1/100
BL (0°-30°)	81.8	3.0	B0/110		
BM (30°-60°)	120.3	4.4	B0/220		
BH (60°-80°)	27.9	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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	546.5	546.5	551.7	546.5	544.6	532.3	533.0	526.5	520.1	511.0	502.6
5°	553.0	557.5	560.7	556.2	549.1	550.4	554.9	542.6	525.2	514.3	495.5
7.5°	550.4	560.1	557.5	554.9	550.4	547.2	540.7	535.6	527.2	516.8	494.9
10°	548.5	551.7	552.3	550.4	540.7	549.7	542.6	534.3	523.9	511.7	484.6
12.5°	541.4	541.4	547.2	542.6	543.9	548.5	545.2	543.3	532.3	522.0	498.1
15°	533.6	536.2	545.2	552.3	558.8	556.8	554.9	549.1	539.4	527.8	502.6
17.5°	535.6	536.8	551.0	563.9	560.7	559.4	569.7	557.5	547.8	534.9	506.5
20°	542.6	546.5	562.7	579.4	582.7	582.7	578.8	571.7	558.1	540.7	513.6
22.5°	549.7	551.0	577.5	598.8	602.0	593.6	596.8	576.2	563.3	553.6	520.7
25°	576.8	574.3	602.7	619.4	617.5	609.1	605.9	587.8	582.7	565.2	536.2
27.5°	613.6	602.7	630.4	640.7	630.4	633.0	623.9	604.6	593.6	583.3	543.3
30°	636.2	642.7	657.5	667.8	650.4	651.1	646.5	625.2	608.5	611.0	567.2
32.5°	671.1	675.6	686.5	691.1	677.5	676.2	671.7	654.9	642.7	640.1	599.4
35°	708.5	716.9	717.5	718.8	706.5	711.7	705.3	681.4	687.8	692.3	638.1
37.5°	745.3	737.5	750.4	756.2	742.7	742.7	744.6	728.5	740.1	753.6	693.0
40°	759.5	762.7	785.3	780.7	796.9	787.2	794.3	790.4	800.1	831.1	770.4
42.5°	774.3	778.2	808.5	816.9	836.2	839.5	849.8	850.4	878.8	929.8	844.6
45°	802.7	796.2	837.5	858.2	889.8	898.8	911.1	921.4	965.9	1025.9	929.1
47.5°	828.5	819.5	866.6	907.9	946.6	948.5	982.1	993.0	1045.9	1114.3	1013.0
50°	864.6	867.9	887.9	958.8	998.2	1020.8	1044.0	1080.1	1138.9	1211.8	1073.7
52.5°	902.0	898.8	932.4	1002.1	1064.0	1072.4	1124.7	1165.3	1229.2	1284.0	1100.8
55°	947.9	951.7	964.6	1056.3	1135.0	1155.0	1213.7	1256.3	1326.0	1315.0	1109.8
57.5°	993.7	989.8	1018.8	1116.9	1224.0	1238.9	1316.9	1342.1	1389.2	1335.7	1087.2
60°	1038.8	1045.9	1058.2	1185.3	1321.5	1343.4	1405.3	1418.2	1428.6	1345.3	1069.8
62.5°	1090.5	1073.7	1111.8	1257.6	1409.2	1455.0	1504.1	1453.1	1444.1	1327.9	1029.8
65°	1116.3	1121.4	1171.1	1340.2	1526.0	1559.6	1566.0	1500.2	1453.7	1289.2	992.4
67.5°	1156.3	1163.4	1226.6	1424.7	1646.0	1664.7	1641.5	1542.8	1445.3	1238.9	857.5
70°	1161.4	1178.9	1300.8	1513.1	1721.5	1737.6	1719.6	1571.2	1377.6	1040.8	634.9
72.5°	1134.3	1165.3	1318.9	1563.4	1784.7	1825.4	1724.1	1471.2	1110.5	664.0	325.2
75°	856.9	882.7	1207.2	1488.6	1672.5	1682.1	1513.7	1122.7	632.3	226.5	83.2
77.5°	443.9	488.4	805.9	1137.6	1274.4	1264.0	1053.7	661.4	217.4	59.4	33.6
80°	254.9	265.8	352.3	638.8	801.4	762.0	582.7	285.2	95.5	29.7	21.9
82.5°	125.8	141.3	189.7	285.8	400.7	329.7	218.7	171.0	53.6	16.1	19.4
85°	27.1	28.4	96.8	136.8	162.6	107.1	74.8	143.9	19.4	9.7	18.7
87.5°	19.4	18.7	27.1	61.3	45.2	27.7	44.5	75.5	4.5	4.5	3.9
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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	497.5	491.7	485.2	473.0	469.7	467.8	456.8	456.2	454.3	449.7	447.8
5°	483.9	474.3	462.0	449.1	438.8	420.1	397.5	385.9	371.7	372.3	367.8
7.5°	482.0	463.9	446.5	419.4	386.5	351.7	316.8	294.2	278.1	268.4	270.4
10°	473.0	459.4	431.0	380.7	327.8	274.9	230.4	196.8	177.4	162.6	167.1
12.5°	476.8	450.4	410.4	343.3	267.8	202.6	147.1	114.9	100.7	95.5	96.8
15°	474.3	450.4	398.1	302.6	210.3	137.4	95.5	85.2	82.6	82.6	81.3
17.5°	482.0	455.5	377.5	262.6	151.0	91.6	81.9	80.0	78.1	78.1	78.1
20°	493.0	458.1	363.3	218.1	106.5	80.7	76.8	75.5	74.8	74.8	74.2
22.5°	493.6	455.5	336.8	169.1	81.9	76.1	72.9	72.3	72.3	71.0	71.0
25°	497.5	458.1	308.4	127.1	76.1	71.6	69.0	68.4	69.0	68.4	67.8
27.5°	507.2	462.6	280.0	92.9	71.6	67.8	65.8	65.2	65.2	65.2	63.9
30°	519.4	462.6	248.4	76.8	67.8	63.9	61.9	61.3	60.7	60.7	60.7
32.5°	545.2	477.5	209.7	68.4	62.6	59.4	57.4	57.4	56.8	56.8	56.1
35°	577.5	487.8	170.3	63.2	58.1	54.8	52.9	52.9	52.3	52.3	51.6
37.5°	617.5	513.6	130.3	59.4	53.6	50.3	48.4	48.4	48.4	47.7	47.7
40°	674.3	540.1	96.8	54.2	49.0	45.8	44.5	43.9	43.2	43.2	41.9
42.5°	734.9	580.7	72.3	50.3	45.2	42.6	40.7	38.7	38.7	36.8	36.8
45°	800.7	616.2	58.7	45.8	41.3	38.1	36.1	34.8	32.9	31.6	31.6
47.5°	865.3	638.1	51.6	40.7	37.4	34.8	32.9	30.3	27.7	27.1	26.5
50°	917.5	644.6	45.8	36.8	34.2	31.6	29.0	25.8	23.2	21.9	21.3
52.5°	917.5	609.1	41.3	32.9	31.0	28.4	25.2	21.3	18.1	16.8	16.1
55°	917.5	553.0	36.8	30.3	27.7	25.8	21.3	17.4	14.2	12.3	11.6
57.5°	904.0	485.2	32.9	27.1	24.5	21.9	18.1	13.6	10.3	8.4	8.4
60°	866.6	414.2	28.4	23.9	21.3	18.1	14.2	9.7	6.5	4.5	4.5
62.5°	818.8	329.7	24.5	20.0	17.4	14.8	11.0	6.5	2.6	1.3	1.3
65°	735.6	243.3	21.3	16.8	13.6	11.0	7.1	2.6	0.0	0.0	0.0
67.5°	607.2	162.6	16.8	13.6	11.6	7.7	4.5	0.6	0.0	0.0	0.0
70°	427.2	92.3	12.9	9.7	8.4	5.2	1.3	0.0	0.0	0.0	0.0
72.5°	175.5	40.7	9.0	7.1	5.8	2.6	0.0	0.0	0.0	0.0	0.0
75°	47.7	18.1	5.8	3.9	3.2	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	27.7	12.3	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.9	5.8	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	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)