

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: P677161

Luminaire Tested: **CCW-SA-1B-760-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677161
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

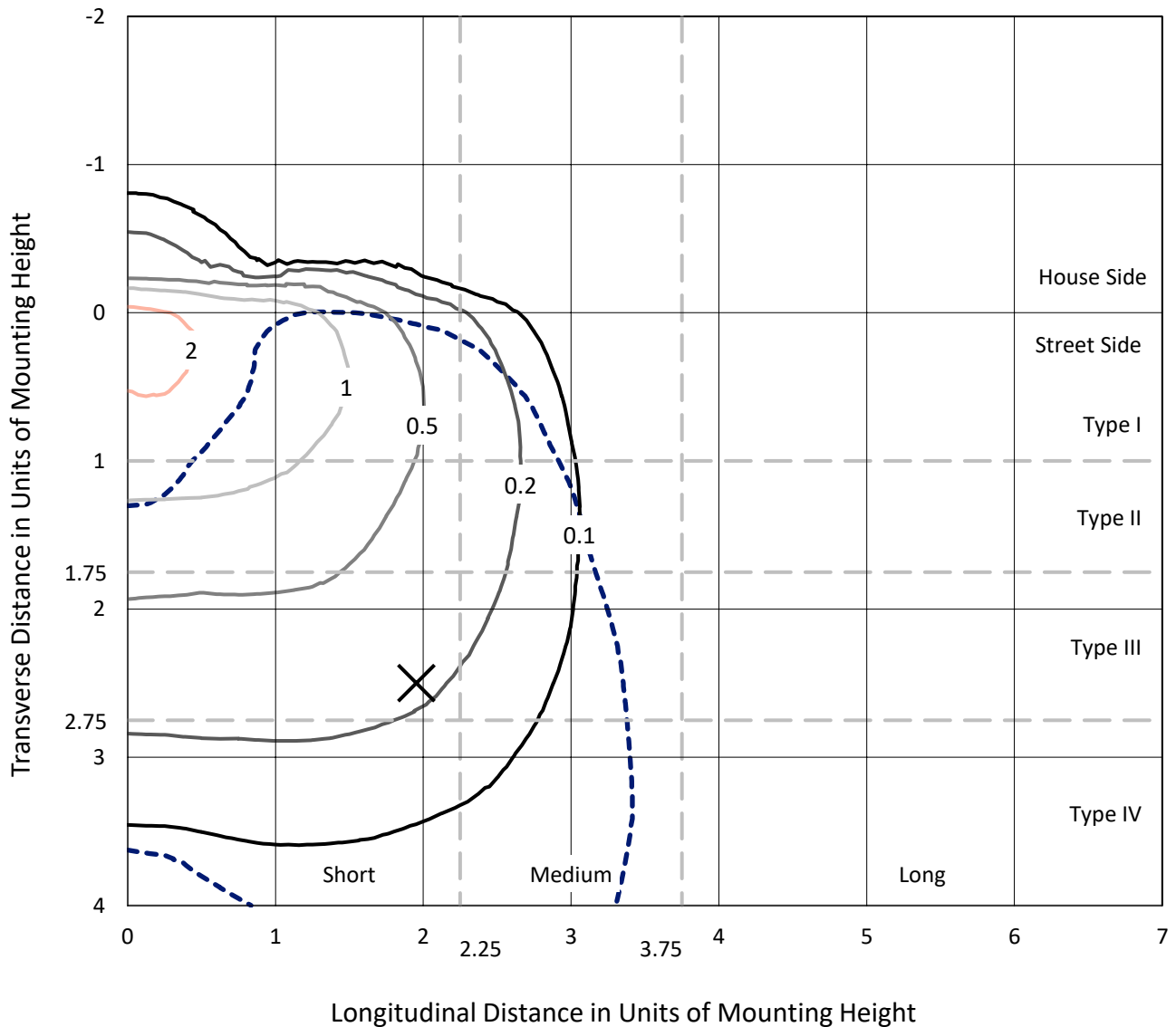
Lumens per Lamp: N/A
Luminaire Lumens: 2918.1 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

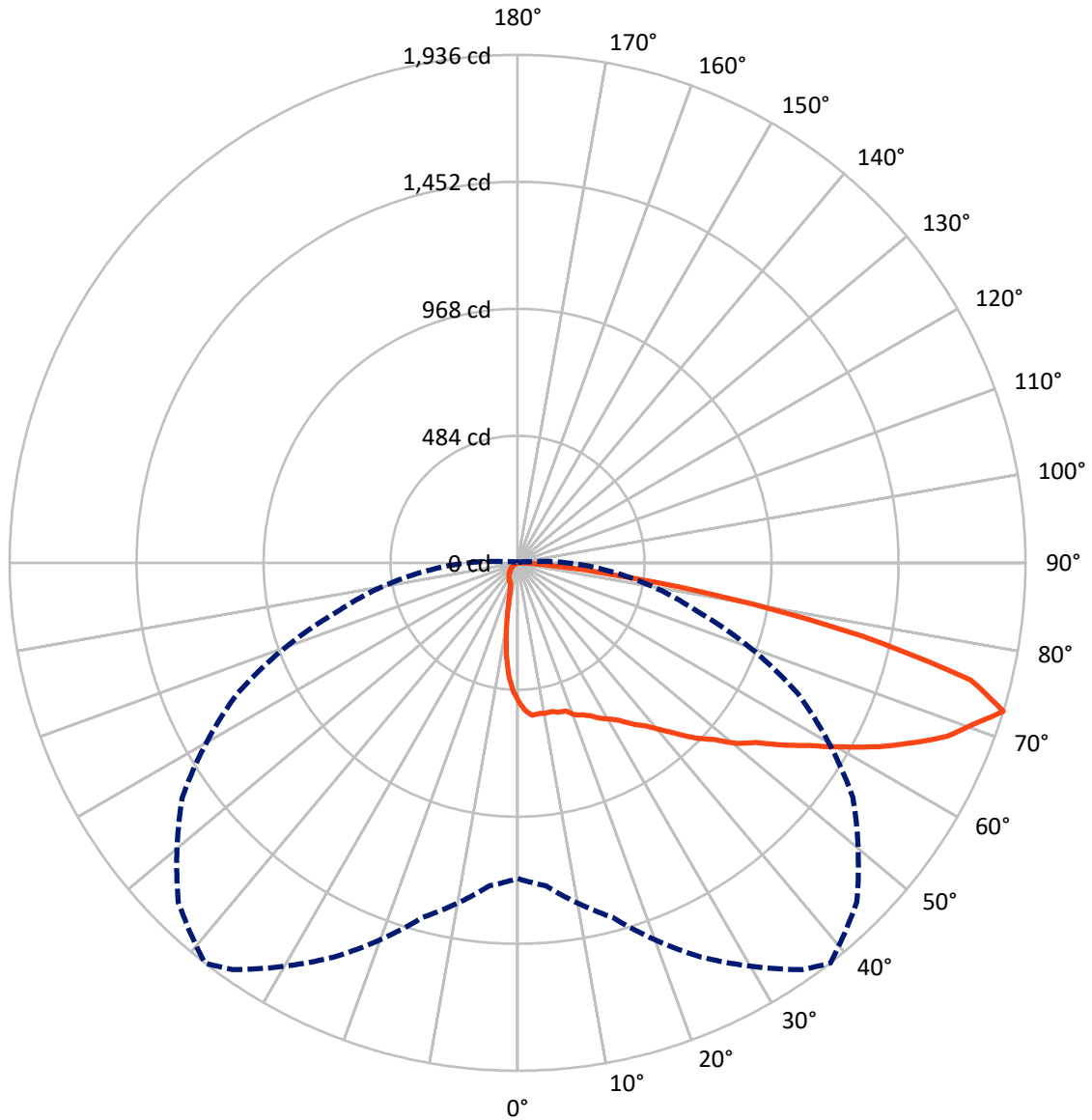
× Max cd
 - - - 1/2 Max cd



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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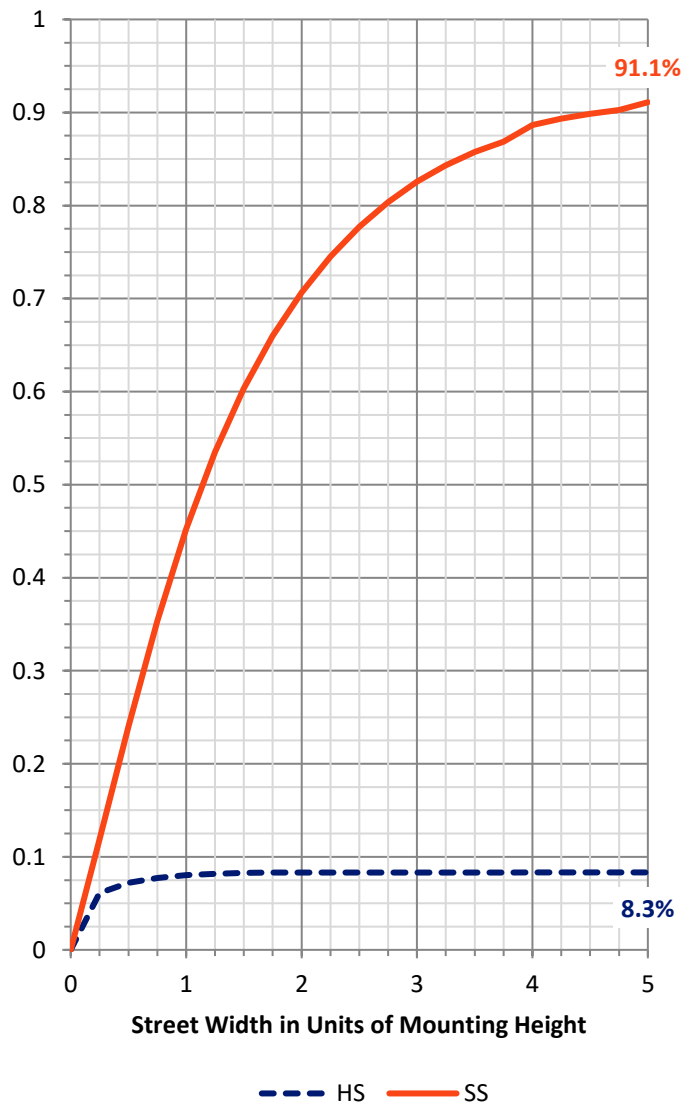
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.4	0.0	244.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2673.7	0.0	2673.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	2918.1	0.0	2918.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	1.6
10°-20°	113.1	3.9
20°-30°	181.3	6.2
30°-40°	273.7	9.4
40°-50°	416.6	14.3
50°-60°	586.5	20.1
60°-70°	716.4	24.6
70°-80°	520.2	17.8
80°-90°	64.1	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°	2918.1	100.0
0°-180°	2918.1	100.0

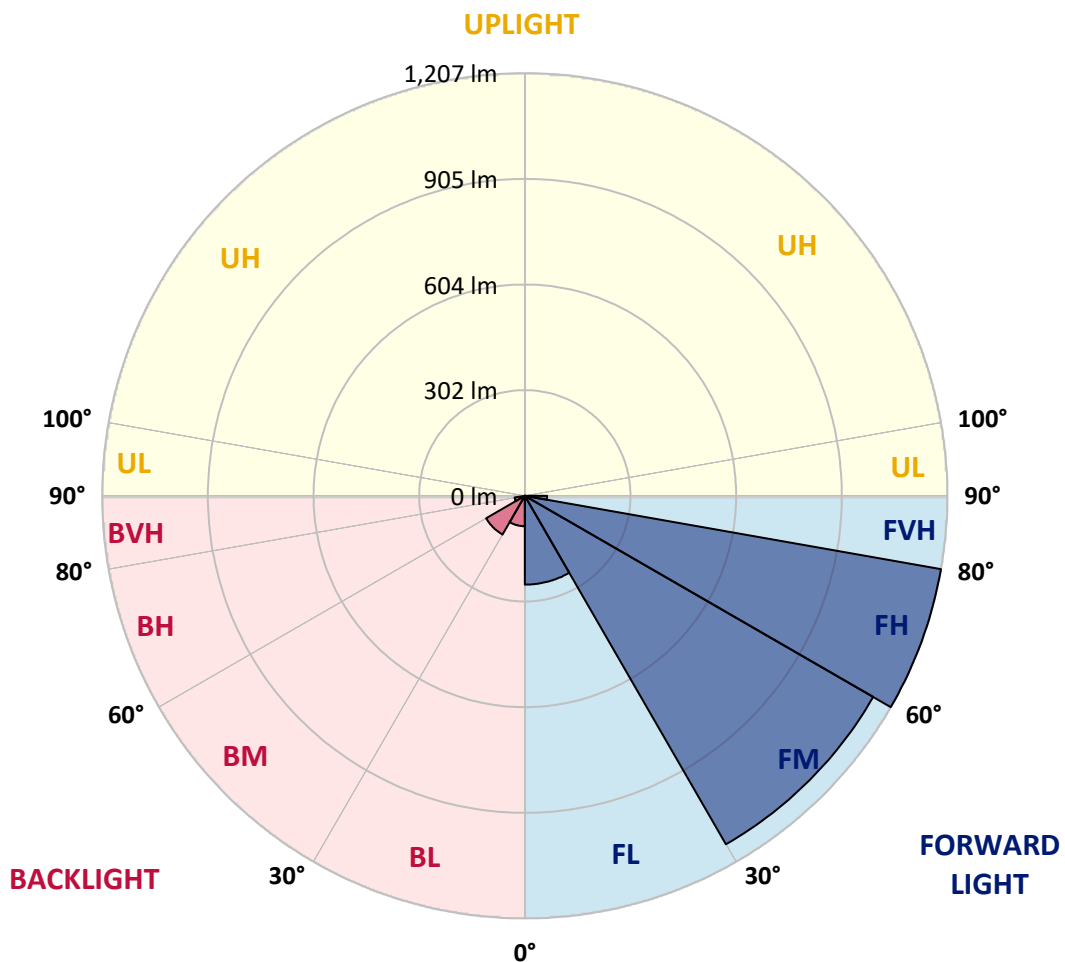


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.8	8.7			
FM (30°-60°)	1149.1	39.4			
FH (60°-80°)	1207.0	41.4			G1/1800
FVH (80°-90°)	63.7	2.2			G1/100
BL (0°-30°)	86.8	3.0	B0/110		
BM (30°-60°)	127.7	4.4	B0/220		
BH (60°-80°)	29.6	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°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	579.7	579.7	585.2	579.7	577.7	564.7	565.4	558.5	551.7	542.1	533.2
5°	586.6	591.4	594.8	590.0	582.5	583.8	588.6	575.6	557.1	545.5	525.7
7.5°	583.8	594.1	591.4	588.6	583.8	580.4	573.6	568.1	559.2	548.2	525.0
10°	581.8	585.2	585.9	583.8	573.6	583.1	575.6	566.7	555.8	542.8	514.0
12.5°	574.2	574.2	580.4	575.6	577.0	581.8	578.4	576.3	564.7	553.7	528.4
15°	566.0	568.8	578.4	585.9	592.7	590.7	588.6	582.5	572.2	559.9	533.2
17.5°	568.1	569.5	584.5	598.2	594.8	593.4	604.4	591.4	581.1	567.4	537.3
20°	575.6	579.7	596.8	614.6	618.1	618.1	613.9	606.4	592.0	573.6	544.8
22.5°	583.1	584.5	612.6	635.2	638.6	629.7	633.1	611.2	597.5	587.3	552.3
25°	611.9	609.2	639.3	657.1	655.0	646.1	642.7	623.5	618.1	599.6	568.8
27.5°	650.9	639.3	668.7	679.7	668.7	671.4	661.9	641.3	629.7	618.7	576.3
30°	674.9	681.7	697.4	708.4	689.9	690.6	685.8	663.2	645.4	648.2	601.6
32.5°	711.8	716.6	728.2	733.0	718.7	717.3	712.5	694.7	681.7	679.0	635.8
35°	751.5	760.4	761.1	762.5	749.5	754.9	748.1	722.8	729.6	734.4	676.9
37.5°	790.5	782.3	796.0	802.2	787.8	787.8	789.8	772.7	785.1	799.4	735.1
40°	805.6	809.0	833.0	828.2	845.3	835.0	842.5	838.4	848.7	881.6	817.2
42.5°	821.3	825.4	857.6	866.5	887.0	890.5	901.4	902.1	932.2	986.3	895.9
45°	851.4	844.6	888.4	910.3	943.8	953.4	966.4	977.4	1024.6	1088.3	985.6
47.5°	878.8	869.2	919.2	963.0	1004.1	1006.1	1041.7	1053.4	1109.5	1182.0	1074.6
50°	917.2	920.6	941.8	1017.1	1058.8	1082.8	1107.4	1145.8	1208.0	1285.4	1138.9
52.5°	956.9	953.4	989.0	1062.9	1128.6	1137.5	1193.0	1236.1	1303.9	1362.0	1167.7
55°	1005.4	1009.6	1023.2	1120.4	1203.9	1225.2	1287.4	1332.6	1406.5	1394.9	1177.2
57.5°	1054.0	1049.9	1080.7	1184.8	1298.4	1314.1	1396.9	1423.6	1473.6	1416.8	1153.3
60°	1102.0	1109.5	1122.5	1257.3	1401.7	1425.0	1490.7	1504.4	1515.4	1427.1	1134.8
62.5°	1156.7	1138.9	1179.3	1334.0	1494.8	1543.4	1595.4	1541.4	1531.8	1408.6	1092.4
65°	1184.1	1189.6	1242.3	1421.6	1618.7	1654.3	1661.1	1591.3	1542.1	1367.5	1052.7
67.5°	1226.5	1234.1	1301.1	1511.3	1746.0	1765.9	1741.2	1636.5	1533.2	1314.1	909.6
70°	1232.0	1250.5	1379.8	1605.0	1826.1	1843.2	1824.0	1666.6	1461.3	1104.0	673.5
72.5°	1203.3	1236.1	1399.0	1658.4	1893.2	1936.3	1828.8	1560.5	1177.9	704.3	345.0
75°	908.9	936.3	1280.6	1579.0	1774.1	1784.3	1605.7	1190.9	670.8	240.2	88.3
77.5°	470.9	518.1	854.9	1206.7	1351.8	1340.8	1117.7	701.6	230.7	63.0	35.6
80°	270.4	282.0	373.7	677.6	850.1	808.3	618.1	302.5	101.3	31.5	23.3
82.5°	133.5	149.9	201.2	303.2	425.0	349.8	232.0	181.4	56.8	17.1	20.5
85°	28.7	30.1	102.7	145.1	172.5	113.6	79.4	152.6	20.5	10.3	19.8
87.5°	20.5	19.8	28.7	65.0	47.9	29.4	47.2	80.1	4.8	4.8	4.1
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°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7
2.5°	527.7	521.5	514.7	501.7	498.3	496.2	484.6	483.9	481.8	477.1	475.0
5°	513.3	503.1	490.1	476.4	465.4	445.6	421.6	409.3	394.2	394.9	390.1
7.5°	511.3	492.1	473.6	444.9	410.0	373.0	336.1	312.1	295.0	284.7	286.8
10°	501.7	487.3	457.2	403.8	347.7	291.6	244.3	208.8	188.2	172.5	177.3
12.5°	505.8	477.7	435.3	364.1	284.0	214.9	156.1	121.8	106.8	101.3	102.7
15°	503.1	477.7	422.3	321.0	223.1	145.8	101.3	90.3	87.6	87.6	86.2
17.5°	511.3	483.2	400.4	278.6	160.2	97.2	86.9	84.9	82.8	82.8	82.8
20°	522.9	486.0	385.3	231.3	112.9	85.6	81.4	80.1	79.4	79.4	78.7
22.5°	523.6	483.2	357.3	179.3	86.9	80.8	77.3	76.7	76.7	75.3	75.3
25°	527.7	486.0	327.2	134.8	80.8	76.0	73.2	72.6	73.2	72.6	71.9
27.5°	538.0	490.7	297.0	98.6	76.0	71.9	69.8	69.1	69.1	69.1	67.8
30°	551.0	490.7	263.5	81.4	71.9	67.8	65.7	65.0	64.3	64.3	64.3
32.5°	578.4	506.5	222.4	72.6	66.4	63.0	60.9	60.9	60.2	60.2	59.5
35°	612.6	517.4	180.7	67.1	61.6	58.2	56.1	56.1	55.4	55.4	54.8
37.5°	655.0	544.8	138.3	63.0	56.8	53.4	51.3	51.3	51.3	50.6	50.6
40°	715.2	572.9	102.7	57.5	52.0	48.6	47.2	46.5	45.9	45.9	44.5
42.5°	779.6	616.0	76.7	53.4	47.9	45.2	43.1	41.1	41.1	39.0	39.0
45°	849.4	653.6	62.3	48.6	43.8	40.4	38.3	37.0	34.9	33.5	33.5
47.5°	917.8	676.9	54.8	43.1	39.7	37.0	34.9	32.2	29.4	28.7	28.1
50°	973.3	683.8	48.6	39.0	36.3	33.5	30.8	27.4	24.6	23.3	22.6
52.5°	973.3	646.1	43.8	34.9	32.9	30.1	26.7	22.6	19.2	17.8	17.1
55°	973.3	586.6	39.0	32.2	29.4	27.4	22.6	18.5	15.1	13.0	12.3
57.5°	958.9	514.7	34.9	28.7	26.0	23.3	19.2	14.4	11.0	8.9	8.9
60°	919.2	439.4	30.1	25.3	22.6	19.2	15.1	10.3	6.8	4.8	4.8
62.5°	868.6	349.8	26.0	21.2	18.5	15.7	11.6	6.8	2.7	1.4	1.4
65°	780.3	258.0	22.6	17.8	14.4	11.6	7.5	2.7	0.0	0.0	0.0
67.5°	644.1	172.5	17.8	14.4	12.3	8.2	4.8	0.7	0.0	0.0	0.0
70°	453.1	97.9	13.7	10.3	8.9	5.5	1.4	0.0	0.0	0.0	0.0
72.5°	186.2	43.1	9.6	7.5	6.2	2.7	0.0	0.0	0.0	0.0	0.0
75°	50.6	19.2	6.2	4.1	3.4	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	29.4	13.0	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.3	6.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	3.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.8	1.4	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)