

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: P677072

Luminaire Tested: **CCW-SA-1B-850-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677072
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

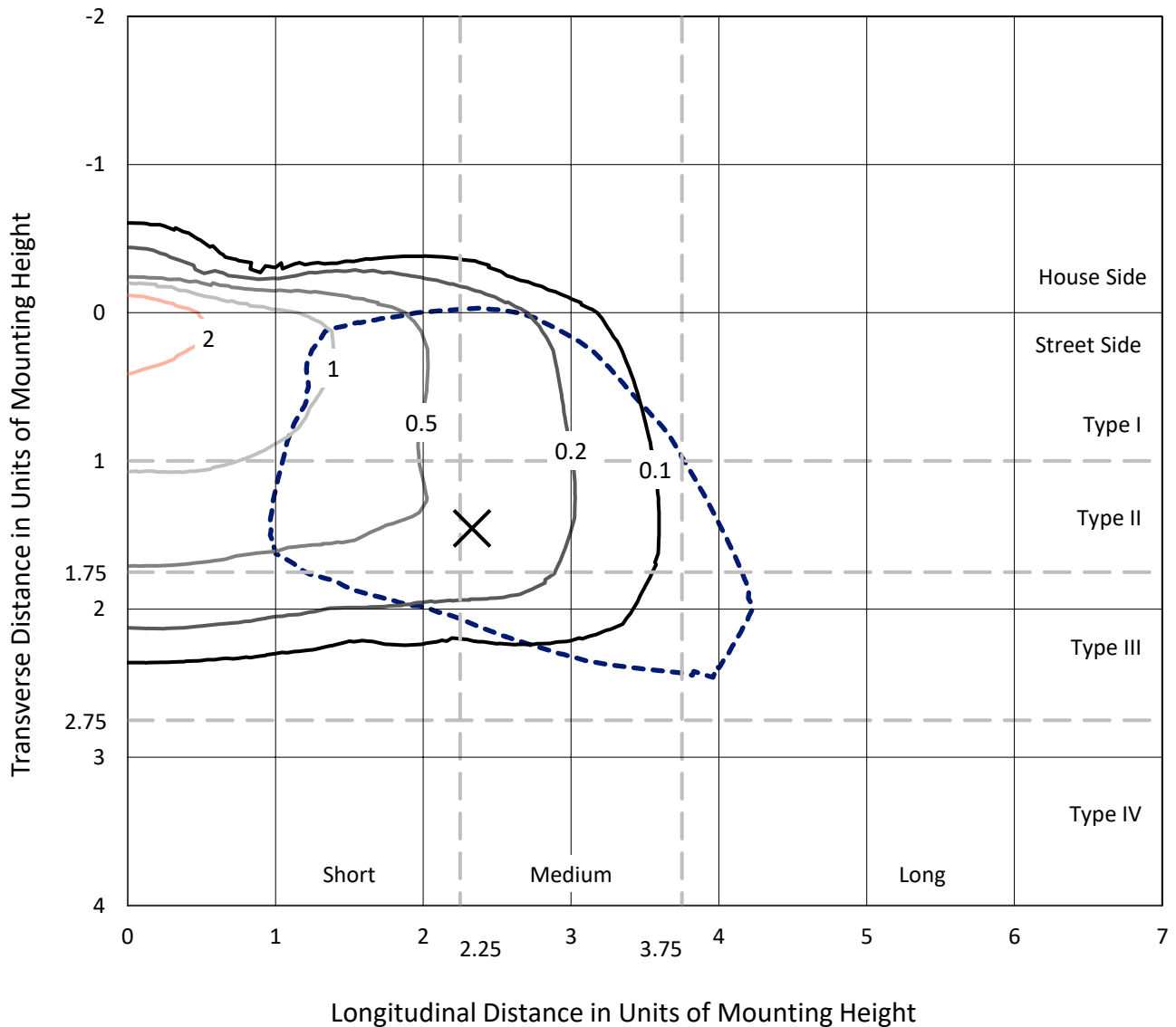
Lumens per Lamp: N/A
Luminaire Lumens: 2490.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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

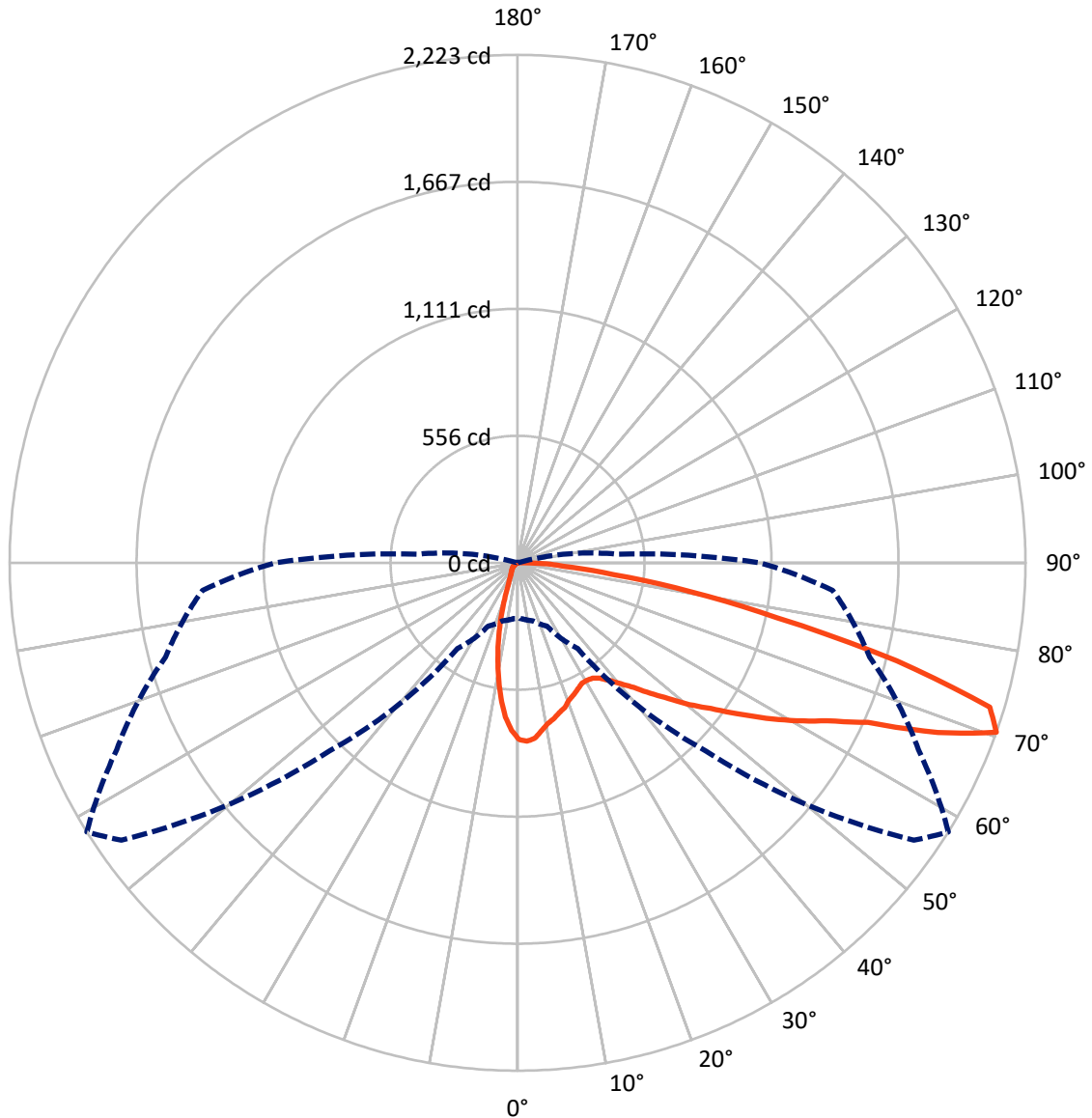
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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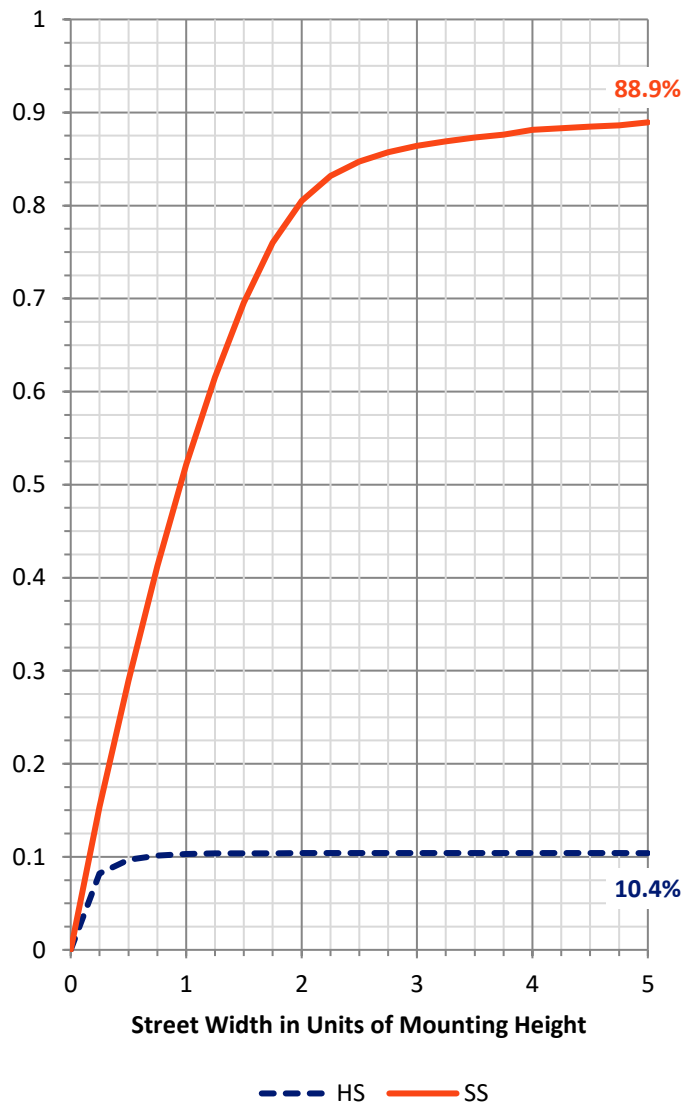
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.8	0.0	260.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2229.5	0.0	2229.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	2490.3	0.0	2490.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	2.5
10°-20°	131.3	5.3
20°-30°	175.8	7.1
30°-40°	237.7	9.5
40°-50°	341.1	13.7
50°-60°	502.7	20.2
60°-70°	613.2	24.6
70°-80°	374.4	15.0
80°-90°	50.9	2.0
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°	2490.3	100.0
0°-180°	2490.3	100.0

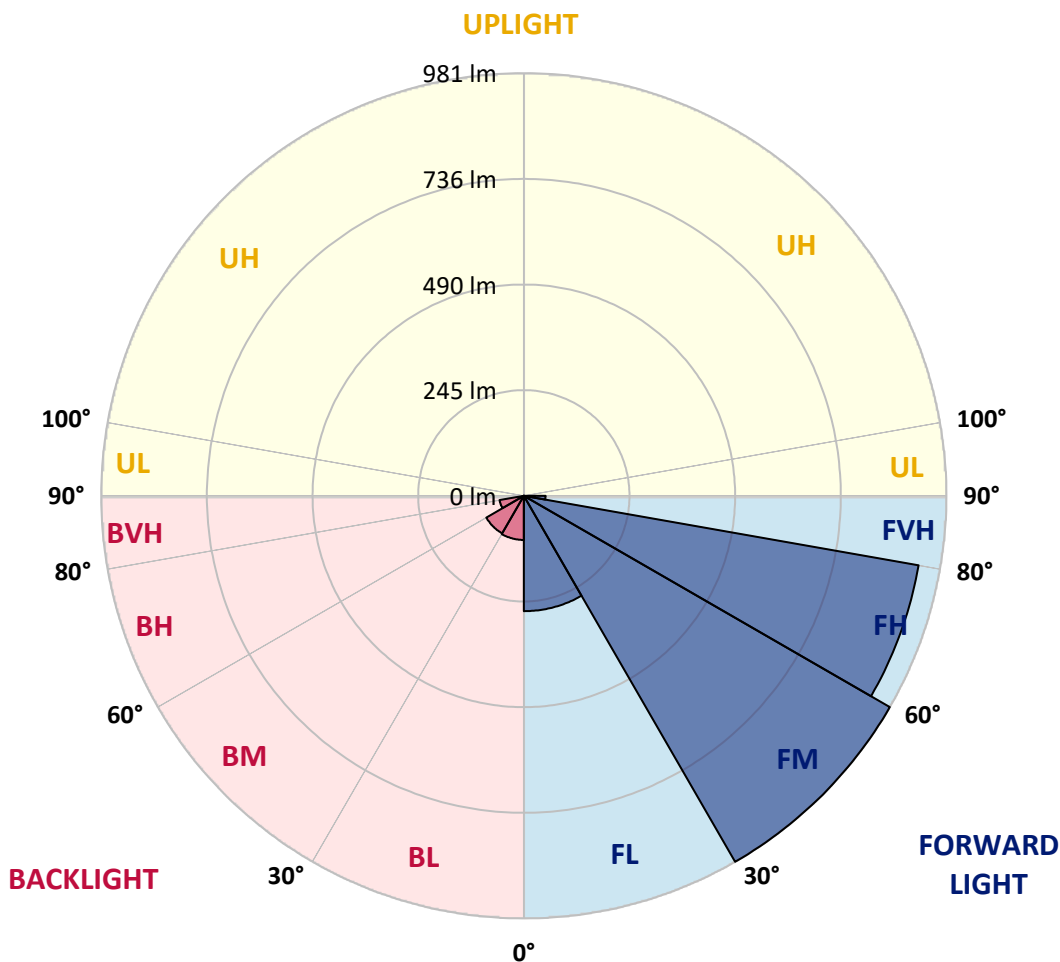


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.7	10.8			
FM (30°-60°)	980.9	39.4			
FH (60°-80°)	930.5	37.4			G1/1800
FVH (80°-90°)	50.4	2.0			G1/100
BL (0°-30°)	102.5	4.1	B0/110		
BM (30°-60°)	100.6	4.0	B0/220		
BH (60°-80°)	57.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	787.1	790.0	783.0	791.2	783.6	787.1	783.0	781.8	782.4	783.0	778.3
5°	750.3	757.3	760.2	755.5	766.6	764.9	771.9	772.5	769.6	766.6	767.2
7.5°	701.8	708.8	711.8	714.7	725.8	740.4	749.7	743.9	748.5	759.0	743.3
10°	666.8	665.0	664.5	670.3	691.3	703.6	719.3	717.6	729.3	739.2	726.3
12.5°	623.6	620.1	630.6	635.3	653.9	675.6	687.8	700.7	712.3	722.8	708.2
15°	591.5	594.4	598.5	608.4	621.8	650.4	668.5	680.8	701.8	707.1	701.2
17.5°	565.8	568.1	574.0	579.2	596.1	623.6	652.2	666.8	689.0	703.0	684.9
20°	566.4	559.4	559.4	564.6	574.0	606.7	637.0	641.7	672.0	696.0	683.7
22.5°	566.9	564.6	559.4	558.8	562.9	586.2	617.2	627.7	660.4	688.4	673.8
25°	575.1	566.4	566.9	558.8	560.5	572.2	596.7	612.5	649.9	692.5	668.5
27.5°	582.1	586.2	578.0	574.5	564.6	564.0	584.5	597.9	644.6	701.8	672.0
30°	597.9	600.8	600.8	598.5	589.1	575.7	580.4	597.3	634.1	700.1	666.2
32.5°	624.2	618.9	625.9	622.4	610.2	589.1	593.2	602.0	640.5	722.3	675.6
35°	632.9	637.0	646.4	638.8	634.7	622.4	614.2	620.7	649.9	744.5	689.6
37.5°	659.8	653.9	660.4	677.3	681.4	659.2	643.4	652.8	684.9	770.7	702.4
40°	662.1	666.8	678.5	711.8	715.8	706.5	693.7	696.0	719.9	804.6	734.5
42.5°	673.8	679.1	703.0	731.0	753.2	755.0	745.6	745.6	766.1	858.9	770.1
45°	696.6	687.8	718.8	766.1	798.2	804.6	816.9	813.9	830.3	916.1	836.7
47.5°	705.3	708.2	742.1	799.3	836.1	865.9	886.3	886.9	895.1	989.1	923.1
50°	733.9	733.4	774.2	827.4	881.7	936.0	975.7	975.7	975.1	1060.3	997.3
52.5°	771.9	770.7	802.3	865.3	936.0	1004.3	1056.8	1058.6	1072.0	1147.9	1082.5
55°	833.8	828.5	858.9	905.6	990.3	1073.2	1164.3	1164.8	1154.3	1210.4	1143.8
57.5°	885.7	885.2	910.3	955.2	1051.0	1161.9	1267.6	1283.4	1250.1	1274.6	1192.9
60°	872.3	879.9	931.9	998.4	1115.2	1272.9	1379.1	1403.7	1350.5	1318.4	1229.7
62.5°	788.8	806.3	863.0	969.2	1169.5	1434.0	1532.7	1521.6	1403.1	1355.8	1274.6
65°	567.5	585.1	655.1	814.5	1106.5	1547.9	1734.7	1684.5	1496.5	1411.2	1334.8
67.5°	334.0	341.0	384.8	519.7	827.4	1486.0	1979.9	1984.0	1680.4	1496.5	1438.7
70°	241.1	246.4	263.3	306.5	458.3	1164.8	2116.6	2222.8	1935.6	1594.6	1383.8
72.5°	185.1	185.1	213.7	255.2	291.9	697.7	1947.8	2160.9	1991.0	1500.6	1115.2
75°	133.1	136.6	167.6	219.5	269.2	350.3	1435.2	1714.9	1687.4	1216.2	778.9
77.5°	76.5	78.2	117.9	183.9	252.8	240.6	886.9	1162.5	1195.2	761.4	337.5
80°	39.1	40.3	66.0	145.4	228.9	209.6	529.0	765.5	649.3	221.3	78.2
82.5°	19.3	19.3	29.8	92.8	194.4	185.7	311.2	422.7	230.0	50.8	32.7
85°	6.4	7.0	13.4	52.5	140.7	112.1	190.3	200.9	77.1	19.3	18.1
87.5°	1.8	2.3	3.5	19.3	61.3	73.6	113.3	128.5	31.5	7.6	8.8
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°	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1	773.1
2.5°	760.8	756.7	752.0	740.4	731.0	718.8	710.6	704.2	691.9	694.2	689.0
5°	753.2	745.6	718.8	693.1	669.7	634.1	609.6	593.8	581.0	568.1	577.5
7.5°	739.8	721.7	679.6	631.8	582.1	535.4	488.7	460.7	440.2	421.6	421.0
10°	717.0	687.8	621.8	559.4	482.9	421.6	362.0	315.3	284.9	262.7	262.2
12.5°	691.3	661.0	578.0	476.4	388.3	301.9	230.6	181.0	152.4	134.9	132.5
15°	675.0	630.6	523.2	402.9	293.7	196.8	127.9	96.9	85.8	81.7	81.7
17.5°	653.9	603.2	468.9	326.4	203.8	113.9	82.9	74.7	74.2	73.0	71.8
20°	645.2	582.1	420.4	260.4	129.0	80.6	71.2	69.5	69.5	68.3	67.1
22.5°	621.8	551.8	369.0	190.9	85.8	70.6	67.1	64.8	63.6	62.5	63.6
25°	611.3	530.2	320.6	132.0	70.1	63.1	61.3	59.0	57.2	56.6	56.6
27.5°	604.3	508.6	273.3	91.7	61.9	57.8	54.3	52.5	50.2	47.9	47.9
30°	599.1	491.6	227.7	67.7	55.5	51.4	48.5	44.4	41.5	39.1	39.1
32.5°	592.1	471.8	182.2	57.8	50.2	46.1	40.9	37.4	33.3	31.5	31.5
35°	594.4	458.3	143.1	51.4	45.0	39.7	35.0	30.4	26.3	24.5	23.9
37.5°	599.1	448.4	108.6	46.1	40.3	34.4	29.2	23.9	21.6	19.3	19.3
40°	618.9	445.5	80.0	42.6	36.8	30.4	24.5	19.9	17.5	15.8	15.2
42.5°	652.2	449.6	61.9	38.5	33.3	25.7	20.4	16.3	14.0	12.3	11.7
45°	694.8	465.4	50.8	36.2	29.2	21.6	16.3	13.4	10.5	9.3	9.3
47.5°	756.7	489.9	44.4	33.3	25.7	18.1	14.0	10.5	8.2	7.0	7.0
50°	826.8	517.9	39.1	29.8	22.2	15.2	11.1	8.2	5.8	5.3	5.3
52.5°	896.8	553.5	36.2	27.4	19.3	12.3	8.8	5.8	4.1	3.5	3.5
55°	970.4	585.1	32.7	25.7	15.8	9.9	6.4	3.5	2.3	1.8	1.8
57.5°	1021.8	597.3	28.6	22.2	12.3	7.6	4.7	2.3	1.2	0.6	0.6
60°	1058.6	599.1	24.5	18.1	9.3	5.8	2.9	1.2	0.6	0.0	0.0
62.5°	1089.5	602.6	21.0	14.0	7.0	4.1	1.8	0.6	0.0	0.0	0.0
65°	1150.8	599.6	16.9	11.1	4.7	2.3	1.2	0.0	0.0	0.0	0.0
67.5°	1199.3	570.5	13.4	7.6	2.9	1.2	0.6	0.0	0.0	0.0	0.0
70°	1060.9	435.0	10.5	5.3	1.8	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	833.2	290.2	7.0	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
75°	546.5	144.2	5.3	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	212.5	38.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	51.4	12.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	4.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	1.2	0.6	0.6	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)