

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: P676900

Luminaire Tested: **CCW-SA-2A-830-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676900
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

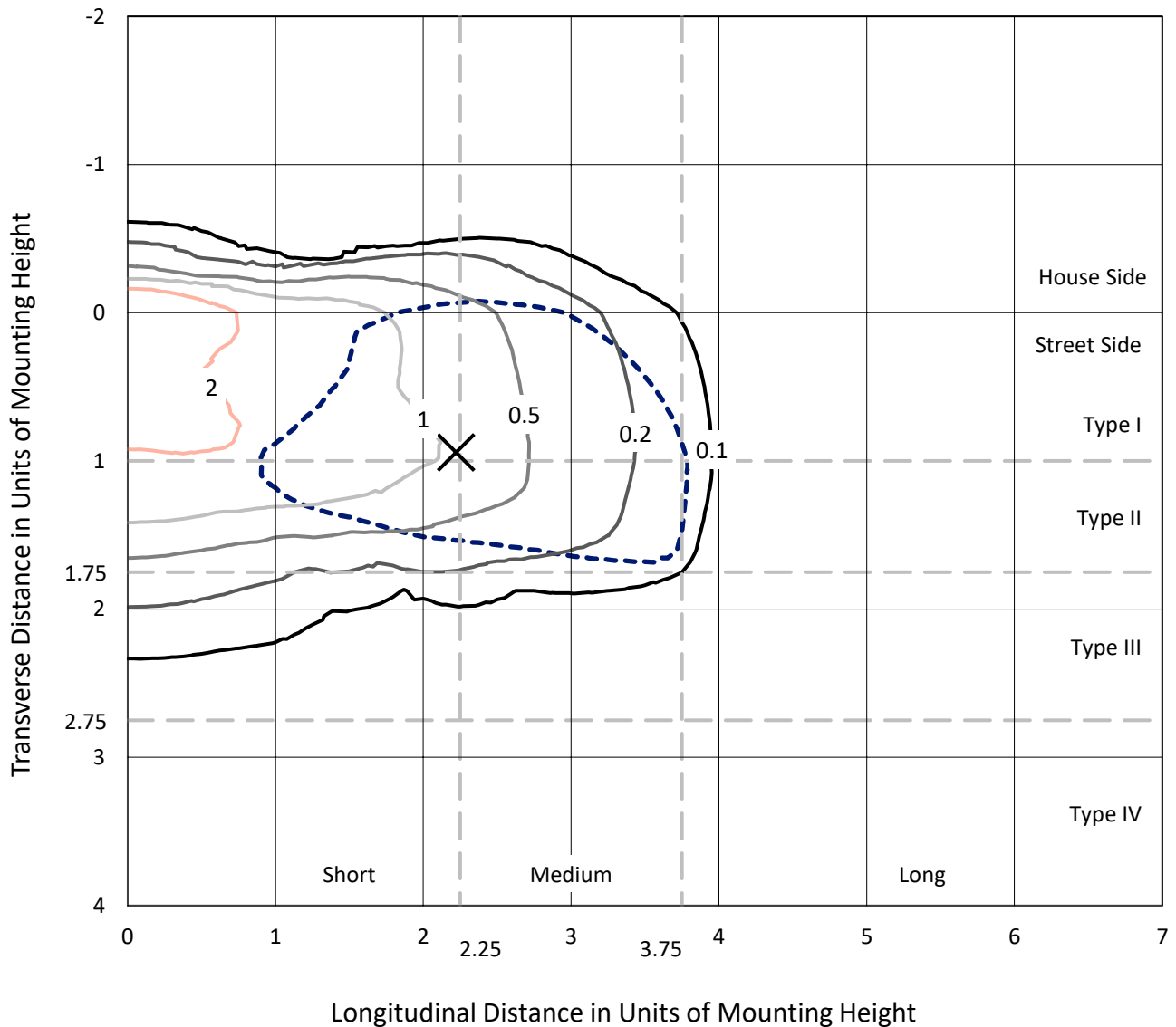
Lumens per Lamp: N/A
Luminaire Lumens: 3496.3 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

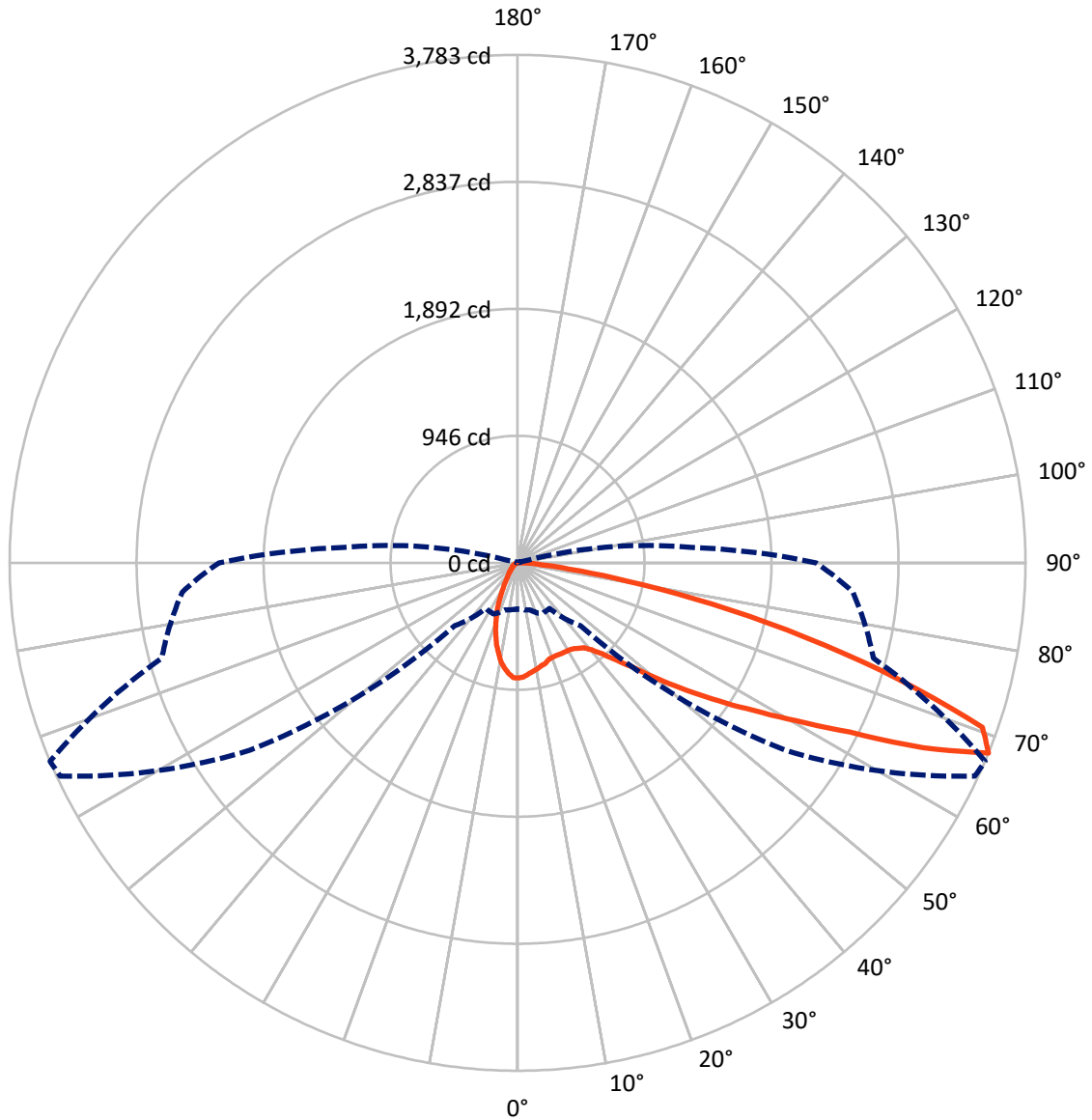
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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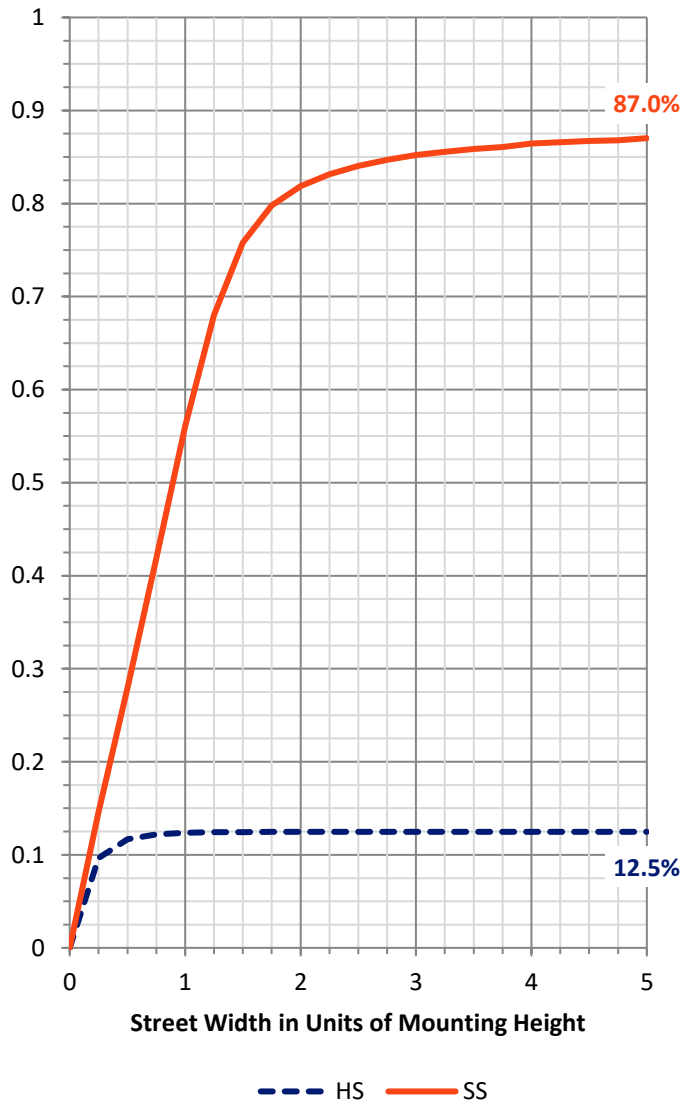
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.0	0.0	440.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3056.3	0.0	3056.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	3496.3	0.0	3496.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.1
10°-20°	160.5	4.6
20°-30°	228.2	6.5
30°-40°	332.3	9.5
40°-50°	514.4	14.7
50°-60°	789.4	22.6
60°-70°	855.7	24.5
70°-80°	482.8	13.8
80°-90°	60.7	1.7
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°	3496.3	100.0
0°-180°	3496.3	100.0

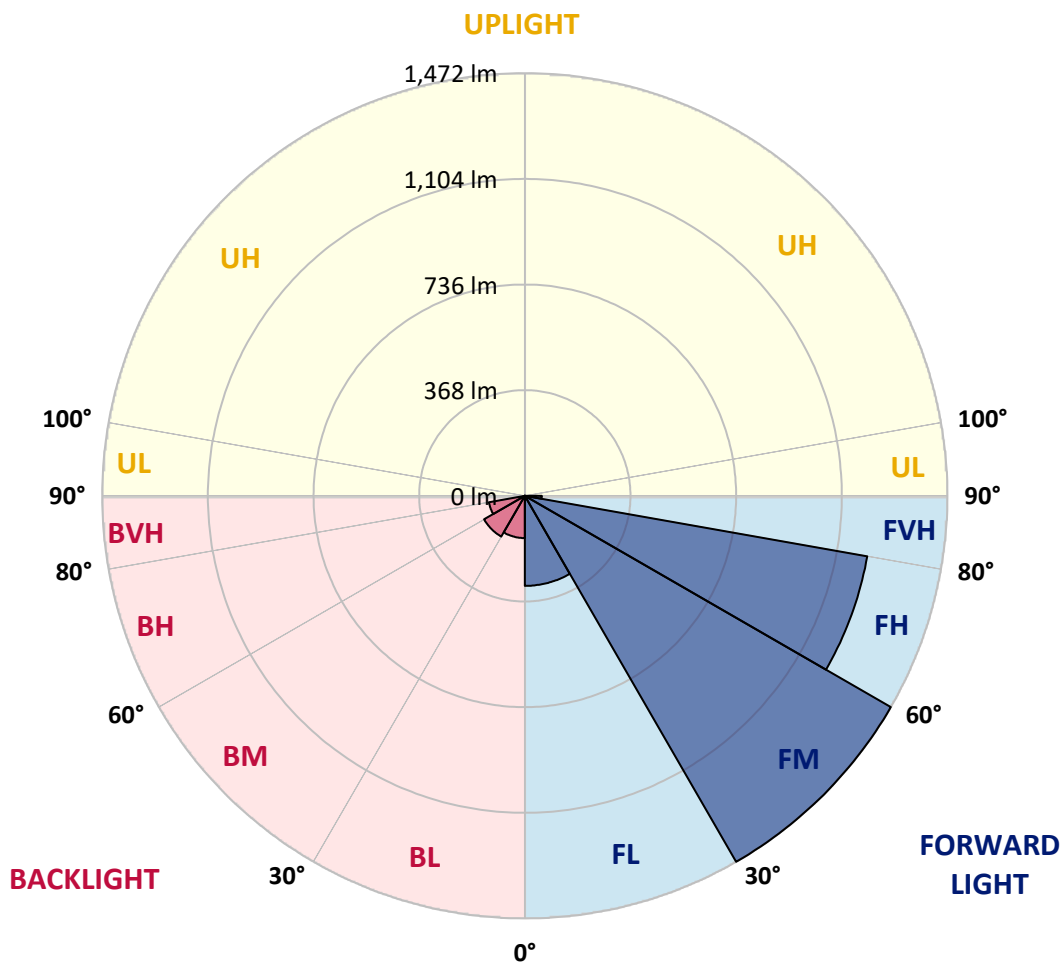


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.7	9.0			
FM (30°-60°)	1472.2	42.1			
FH (60°-80°)	1211.4	34.6			G1/1800
FVH (80°-90°)	58.9	1.7			G1/100
BL (0°-30°)	147.3	4.2	B1/500		
BM (30°-60°)	163.9	4.7	B0/220		
BH (60°-80°)	127.1	3.6	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6
2.5°	820.5	824.7	830.6	839.0	844.9	841.6	844.1	858.4	850.8	857.6	854.2
5°	775.0	779.2	787.7	786.8	793.5	806.2	823.0	841.6	833.1	853.4	860.9
7.5°	727.8	726.2	726.2	743.8	758.2	775.9	785.1	815.5	816.3	834.0	852.5
10°	684.9	689.9	698.4	705.1	718.6	743.8	770.8	794.4	803.7	839.0	844.1
12.5°	658.8	661.3	671.4	677.3	695.0	719.4	748.1	778.4	786.0	822.2	846.6
15°	647.8	653.7	657.1	668.0	677.3	700.0	721.1	755.6	777.5	806.2	836.5
17.5°	656.2	653.7	655.4	658.8	669.7	689.9	712.7	747.2	754.8	802.8	848.3
20°	667.2	668.0	663.0	661.3	658.8	678.1	696.7	741.3	749.7	802.8	855.9
22.5°	696.7	687.4	696.7	683.2	669.7	678.1	695.8	742.2	748.1	802.0	863.5
25°	732.9	734.6	737.1	708.5	689.1	683.2	701.7	744.7	749.7	808.7	866.8
27.5°	784.3	791.9	779.2	764.9	726.2	696.7	700.9	743.0	752.3	805.3	875.3
30°	853.4	847.5	849.1	816.3	778.4	732.1	720.3	747.2	754.0	809.6	891.3
32.5°	913.2	906.4	918.2	906.4	846.6	782.6	743.0	755.6	763.2	819.7	904.7
35°	950.2	958.7	977.2	989.8	939.3	848.3	780.9	778.4	781.8	824.7	914.9
37.5°	1007.5	1022.7	1037.8	1069.9	1026.1	929.2	840.7	807.9	802.0	849.1	919.9
40°	1069.9	1065.6	1110.3	1148.2	1146.5	1042.9	924.1	860.1	851.7	887.9	953.6
42.5°	1122.1	1117.9	1167.6	1229.9	1236.7	1152.4	1019.3	934.2	926.6	947.7	994.9
45°	1190.3	1193.7	1252.7	1326.8	1351.2	1297.3	1148.2	1040.4	1036.2	1029.4	1073.2
47.5°	1251.0	1269.5	1320.1	1407.7	1496.1	1447.3	1299.8	1195.4	1165.9	1150.7	1194.5
50°	1293.1	1309.9	1371.4	1464.9	1626.7	1657.9	1470.0	1360.5	1361.3	1324.3	1347.9
52.5°	1293.1	1292.3	1342.0	1464.9	1717.7	1877.7	1697.5	1568.6	1575.3	1536.6	1538.2
55°	1168.4	1165.9	1226.5	1357.1	1707.6	2089.2	2042.0	1832.2	1815.4	1740.4	1748.0
57.5°	941.0	946.9	993.2	1149.9	1576.1	2187.7	2452.3	2128.8	2071.5	1916.5	1916.5
60°	686.6	681.5	716.0	825.6	1262.8	2150.7	2789.2	2478.4	2388.2	2062.2	2040.3
62.5°	522.3	521.5	530.7	567.8	801.1	1875.2	2934.1	2923.2	2776.6	2205.4	2174.3
65°	422.0	423.7	436.4	462.5	489.4	1278.8	2857.5	3453.9	3319.9	2418.6	2316.6
67.5°	344.5	348.8	363.9	420.4	414.5	662.1	2433.7	3758.0	3783.3	2743.7	2507.9
70°	265.4	272.1	289.8	369.8	399.3	440.6	1687.3	3606.4	3673.7	2945.9	2392.4
72.5°	180.3	179.4	217.3	299.9	403.5	403.5	939.3	2904.6	2968.6	2715.9	2078.2
75°	97.7	103.6	144.1	226.6	369.8	390.0	534.9	2125.4	2215.5	2111.9	1607.3
77.5°	53.1	53.9	80.0	148.3	307.5	372.3	357.2	1445.6	1481.0	1273.7	880.3
80°	27.8	28.6	42.1	96.9	212.3	345.4	297.4	861.8	828.1	488.6	290.6
82.5°	12.6	13.5	21.1	60.7	135.6	272.1	256.9	416.1	384.1	136.5	88.5
85°	5.1	5.1	9.3	36.2	79.2	133.9	219.9	208.9	174.4	41.3	43.8
87.5°	1.7	1.7	2.5	14.3	32.0	80.0	117.1	110.4	75.8	15.2	23.6
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°	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6	857.6
2.5°	850.8	860.1	857.6	855.9	839.9	838.2	836.5	821.3	826.4	813.8	822.2
5°	855.9	860.9	847.5	822.2	799.4	774.2	754.8	741.3	716.9	707.6	705.9
7.5°	850.8	850.8	823.0	782.6	738.0	696.7	644.4	607.4	579.6	558.5	566.1
10°	844.1	834.0	805.3	733.7	652.9	590.5	515.6	460.8	419.5	406.0	397.6
12.5°	844.1	826.4	762.4	664.7	560.2	465.9	376.6	305.0	265.4	241.8	238.4
15°	836.5	810.4	731.2	599.8	470.1	342.0	240.1	178.6	144.9	135.6	132.3
17.5°	838.2	807.0	684.9	523.1	364.8	227.5	146.6	112.9	104.5	100.2	101.1
20°	841.6	807.0	643.6	448.2	262.8	141.5	101.1	95.2	91.0	89.3	90.1
22.5°	852.5	791.0	601.5	371.5	177.7	101.9	89.3	83.4	80.0	77.5	76.7
25°	854.2	788.5	561.0	295.7	122.1	85.9	78.3	71.6	67.4	64.0	63.2
27.5°	851.7	777.5	504.6	219.9	91.8	76.7	66.6	59.8	53.9	51.4	50.5
30°	860.9	757.3	456.6	158.4	77.5	66.6	56.4	48.9	43.8	40.4	40.4
32.5°	861.8	739.6	403.5	112.9	70.8	59.0	48.0	39.6	34.5	32.9	32.9
35°	862.6	723.6	344.5	85.9	63.2	50.5	39.6	32.9	29.5	27.0	27.0
37.5°	865.2	711.8	290.6	72.4	56.4	43.0	32.9	27.0	23.6	22.7	22.7
40°	870.2	695.8	234.2	64.0	48.9	36.2	27.8	22.7	19.4	18.5	17.7
42.5°	883.7	691.6	187.0	57.3	43.8	30.3	22.7	18.5	16.0	14.3	13.5
45°	939.3	702.6	144.9	53.1	37.1	25.3	19.4	15.2	11.8	11.0	10.1
47.5°	1030.3	738.8	114.6	47.2	31.2	21.1	16.0	11.8	9.3	8.4	7.6
50°	1168.4	821.3	93.5	42.1	26.1	17.7	12.6	9.3	6.7	5.9	5.9
52.5°	1349.5	932.5	80.9	37.1	21.1	15.2	10.1	6.7	5.1	4.2	4.2
55°	1534.9	1064.0	75.8	32.0	17.7	12.6	7.6	5.1	3.4	2.5	2.5
57.5°	1705.0	1149.0	73.3	26.1	15.2	9.3	5.9	3.4	1.7	0.8	0.8
60°	1811.2	1211.4	65.7	21.1	11.8	7.6	4.2	1.7	0.8	0.0	0.0
62.5°	1951.0	1274.6	53.9	16.0	8.4	5.1	2.5	0.8	0.0	0.0	0.0
65°	2135.5	1345.3	42.1	12.6	6.7	3.4	1.7	0.8	0.0	0.0	0.0
67.5°	2224.0	1308.3	28.6	9.3	4.2	1.7	0.8	0.0	0.0	0.0	0.0
70°	2047.1	1101.9	20.2	6.7	2.5	0.8	0.8	0.0	0.0	0.0	0.0
72.5°	1721.0	863.5	15.2	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
75°	1268.7	540.0	11.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	673.1	201.3	8.4	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.8	59.0	5.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.7	17.7	3.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.7	6.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.4	2.5	1.7	1.7	0.8	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)