

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: P676897

Luminaire Tested: **CCW-SA-1D-830-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676897
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

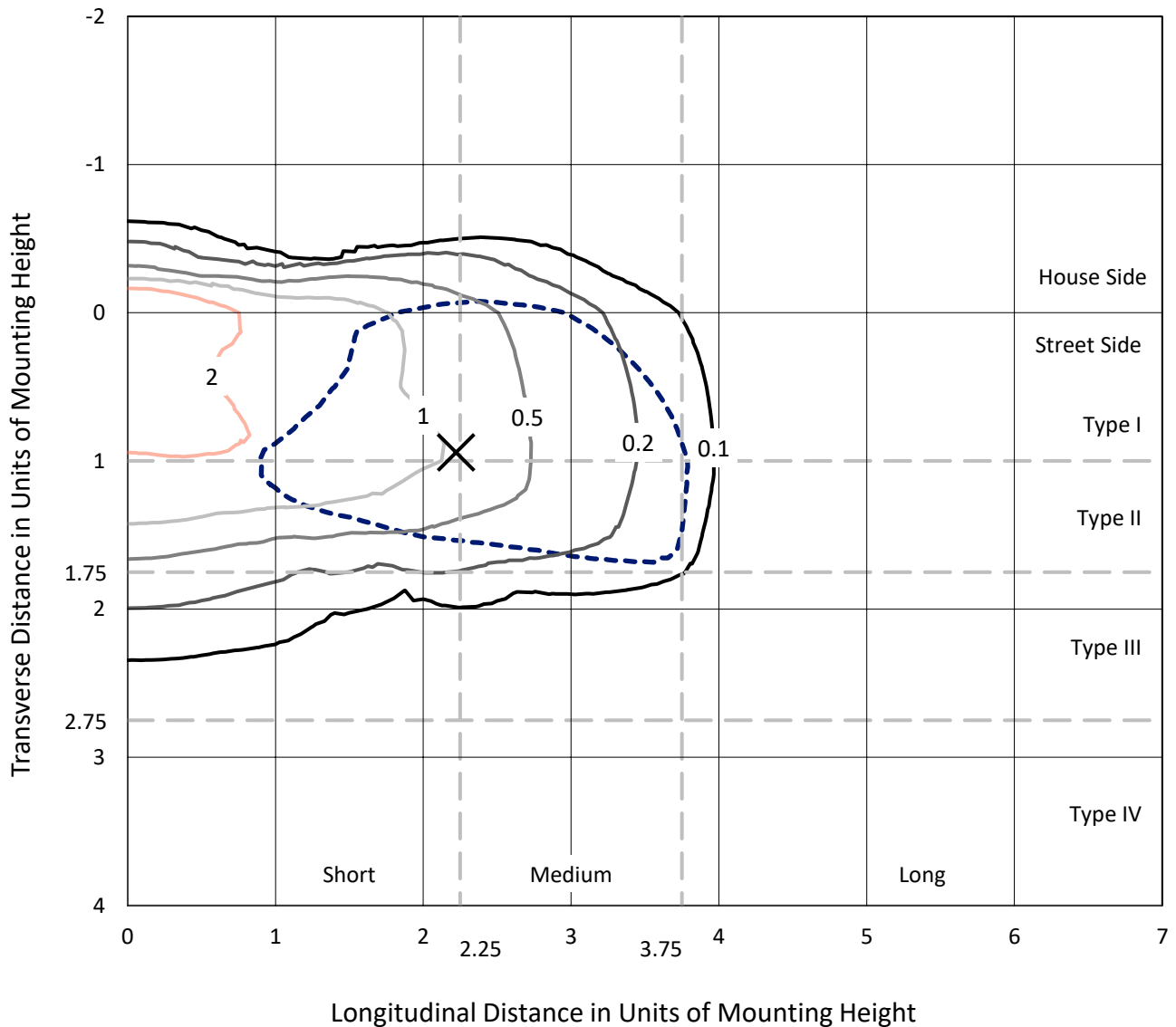
Lumens per Lamp: N/A
Luminaire Lumens: 3563.6 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

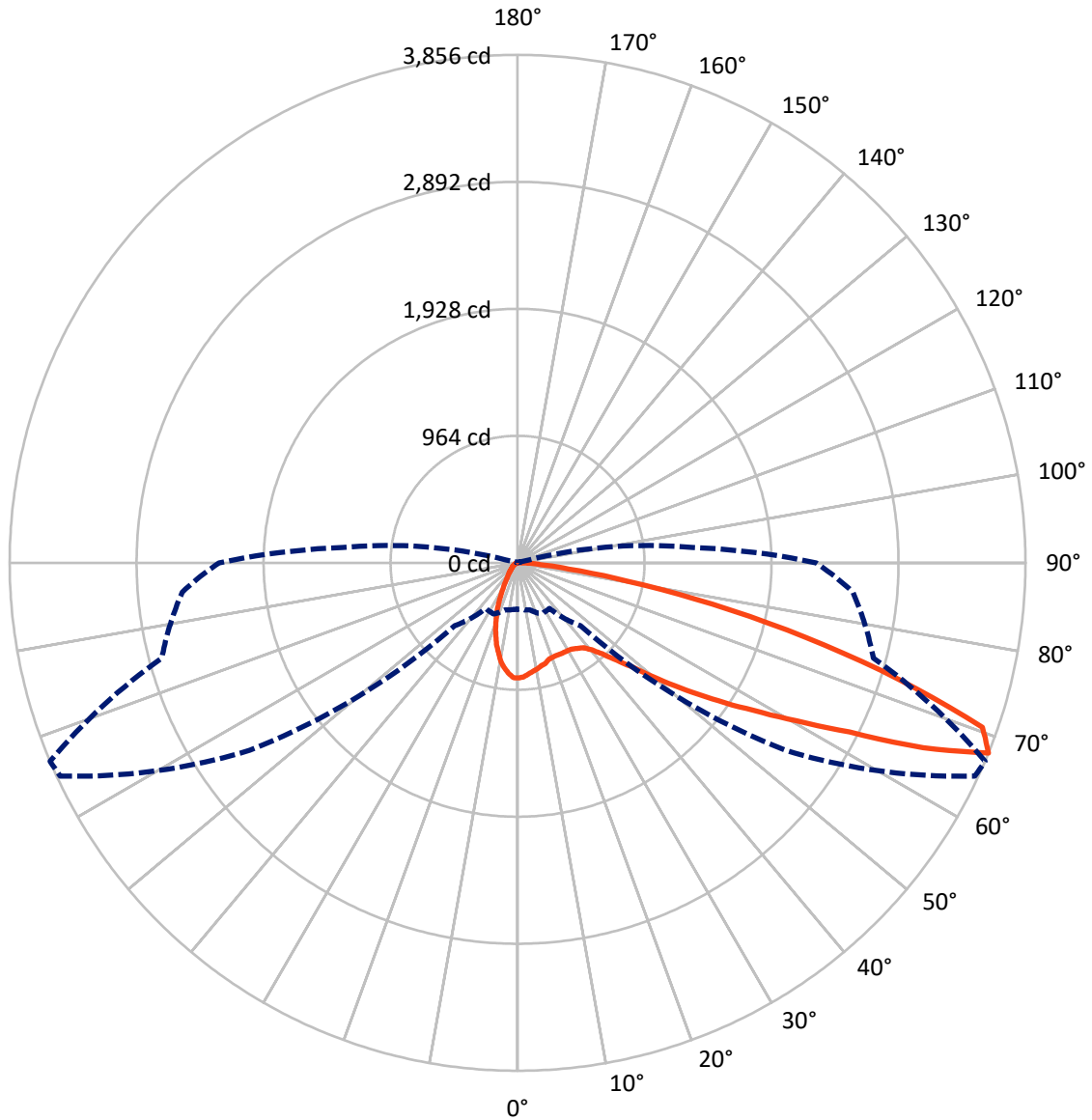
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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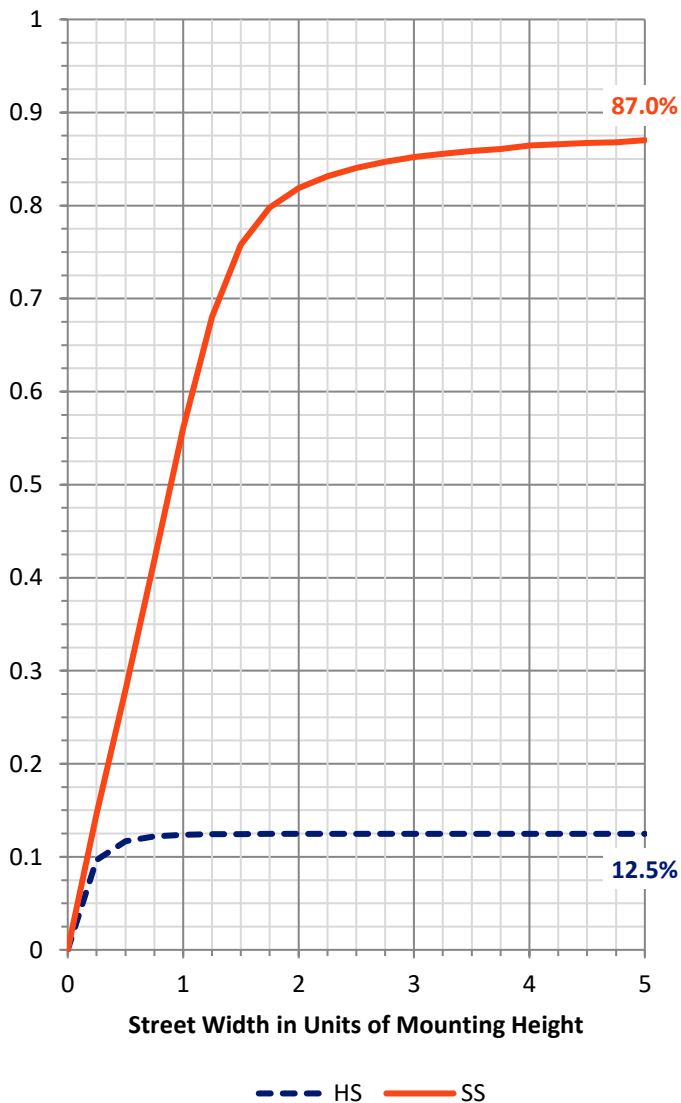
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.5	0.0	448.5
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3115.1	0.0	3115.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	3563.6	0.0	3563.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	2.1
10°-20°	163.6	4.6
20°-30°	232.6	6.5
30°-40°	338.7	9.5
40°-50°	524.3	14.7
50°-60°	804.6	22.6
60°-70°	872.2	24.5
70°-80°	492.1	13.8
80°-90°	61.8	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°	3563.6	100.0
0°-180°	3563.6	100.0

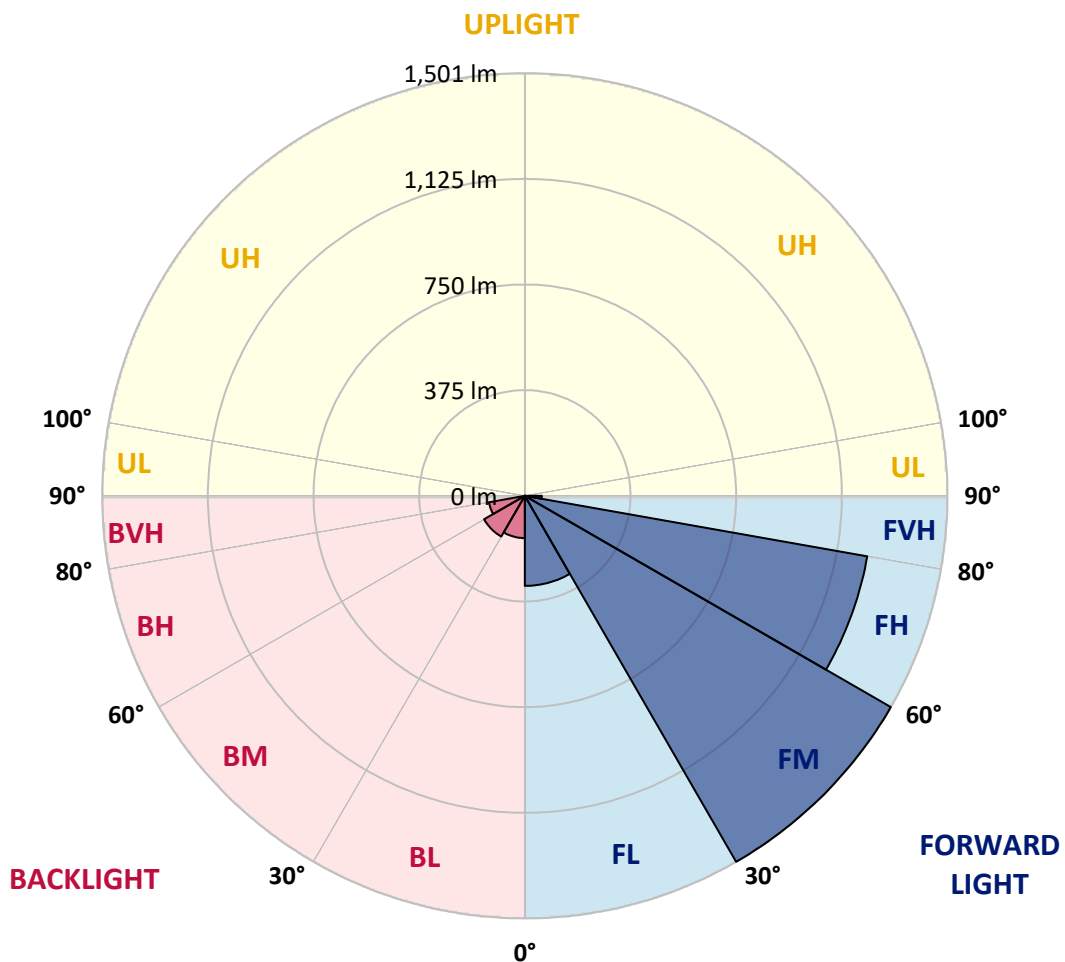


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.7	9.0			
FM (30°-60°)	1500.6	42.1			
FH (60°-80°)	1234.7	34.6			G1/1800
FVH (80°-90°)	60.0	1.7			G1/100
BL (0°-30°)	150.1	4.2	B1/500		
BM (30°-60°)	167.0	4.7	B0/220		
BH (60°-80°)	129.6	3.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	836.3	840.6	846.6	855.2	861.2	857.8	860.3	874.9	867.2	874.1	870.6
5°	789.9	794.2	802.8	801.9	808.8	821.7	838.9	857.8	849.2	869.8	877.5
7.5°	741.8	740.1	740.1	758.2	772.8	790.8	800.2	831.1	832.0	850.0	868.9
10°	698.1	703.2	711.8	718.7	732.4	758.2	785.6	809.7	819.1	855.2	860.3
12.5°	671.4	674.0	684.3	690.3	708.4	733.3	762.5	793.4	801.1	838.0	862.9
15°	660.3	666.3	669.7	680.9	690.3	713.5	735.0	770.2	792.5	821.7	852.6
17.5°	668.9	666.3	668.0	671.4	682.6	703.2	726.4	761.6	769.3	818.3	864.6
20°	680.0	680.9	675.7	674.0	671.4	691.2	710.1	755.6	764.2	818.3	872.4
22.5°	710.1	700.6	710.1	696.3	682.6	691.2	709.2	756.4	762.5	817.4	880.1
25°	747.0	748.7	751.3	722.1	702.3	696.3	715.2	759.0	764.2	824.3	883.5
27.5°	799.4	807.1	794.2	779.6	740.1	710.1	714.4	757.3	766.7	820.8	892.1
30°	869.8	863.8	865.5	832.0	793.4	746.1	734.1	761.6	768.5	825.1	908.4
32.5°	930.7	923.9	935.9	923.9	862.9	797.7	757.3	770.2	777.9	835.4	922.2
35°	968.5	977.1	996.0	1008.9	957.4	864.6	795.9	793.4	796.8	840.6	932.5
37.5°	1026.9	1042.4	1057.8	1090.4	1045.8	947.1	856.9	823.4	817.4	865.5	937.6
40°	1090.4	1086.1	1131.7	1170.3	1168.6	1063.0	941.9	876.6	868.1	905.0	972.0
42.5°	1143.7	1139.4	1190.0	1253.6	1260.4	1174.6	1038.9	952.2	944.5	965.9	1014.0
45°	1213.2	1216.7	1276.8	1352.3	1377.2	1322.3	1170.3	1060.4	1056.1	1049.2	1093.9
47.5°	1275.0	1293.9	1345.4	1434.7	1524.9	1475.1	1324.8	1218.4	1188.3	1172.9	1217.5
50°	1318.0	1335.1	1397.8	1493.1	1658.0	1689.8	1498.3	1386.7	1387.5	1349.7	1373.8
52.5°	1318.0	1317.1	1367.8	1493.1	1750.7	1913.9	1730.1	1598.7	1605.6	1566.1	1567.8
55°	1190.9	1188.3	1250.1	1383.2	1740.4	2129.4	2081.3	1867.5	1850.3	1773.9	1781.6
57.5°	959.1	965.1	1012.3	1172.0	1606.5	2229.8	2499.4	2169.7	2111.3	1953.3	1953.3
60°	699.8	694.6	729.8	841.4	1287.1	2192.0	2842.9	2526.0	2434.2	2101.9	2079.6
62.5°	532.3	531.5	540.9	578.7	816.5	1911.3	2990.6	2979.4	2830.0	2247.9	2216.1
65°	430.2	431.9	444.8	471.4	498.9	1303.4	2912.4	3520.3	3383.8	2465.1	2361.2
67.5°	351.2	355.5	370.9	428.4	422.4	674.9	2480.5	3830.3	3856.0	2796.5	2556.1
70°	270.5	277.3	295.4	376.9	407.0	449.1	1719.8	3675.7	3744.4	3002.6	2438.5
72.5°	183.7	182.9	221.5	305.7	411.3	411.3	957.4	2960.5	3025.8	2768.2	2118.2
75°	99.6	105.6	146.8	231.0	376.9	397.5	545.2	2166.3	2258.2	2152.5	1638.2
77.5°	54.1	55.0	81.6	151.1	313.4	379.5	364.1	1473.4	1509.4	1298.2	897.3
80°	28.3	29.2	42.9	98.7	216.4	352.0	303.1	878.4	844.0	498.0	296.2
82.5°	12.9	13.7	21.5	61.8	138.2	277.3	261.9	424.2	391.5	139.1	90.2
85°	5.2	5.2	9.4	36.9	80.7	136.5	224.1	212.9	177.7	42.1	44.6
87.5°	1.7	1.7	2.6	14.6	32.6	81.6	119.3	112.5	77.3	15.5	24.0
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°	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1	874.1
2.5°	867.2	876.6	874.1	872.4	856.0	854.3	852.6	837.1	842.3	829.4	838.0
5°	872.4	877.5	863.8	838.0	814.8	789.1	769.3	755.6	730.7	721.2	719.5
7.5°	867.2	867.2	838.9	797.7	752.1	710.1	656.8	619.1	590.7	569.3	577.0
10°	860.3	850.0	820.8	747.9	665.4	601.9	525.5	469.7	427.6	413.9	405.3
12.5°	860.3	842.3	777.0	677.4	571.0	474.8	383.8	310.8	270.5	246.4	243.0
15°	852.6	826.0	745.3	611.3	479.1	348.6	244.7	182.0	147.7	138.2	134.8
17.5°	854.3	822.6	698.1	533.2	371.8	231.8	149.4	115.1	106.5	102.2	103.0
20°	857.8	822.6	656.0	456.8	267.9	144.2	103.0	97.0	92.7	91.0	91.9
22.5°	868.9	806.2	613.1	378.6	181.2	103.9	91.0	85.0	81.6	79.0	78.1
25°	870.6	803.7	571.8	301.4	124.5	87.6	79.9	73.0	68.7	65.3	64.4
27.5°	868.1	792.5	514.3	224.1	93.6	78.1	67.8	61.0	55.0	52.4	51.5
30°	877.5	771.9	465.4	161.4	79.0	67.8	57.5	49.8	44.6	41.2	41.2
32.5°	878.4	753.9	411.3	115.1	72.1	60.1	48.9	40.4	35.2	33.5	33.5
35°	879.2	737.6	351.2	87.6	64.4	51.5	40.4	33.5	30.1	27.5	27.5
37.5°	881.8	725.5	296.2	73.8	57.5	43.8	33.5	27.5	24.0	23.2	23.2
40°	886.9	709.2	238.7	65.3	49.8	36.9	28.3	23.2	19.7	18.9	18.0
42.5°	900.7	704.9	190.6	58.4	44.6	30.9	23.2	18.9	16.3	14.6	13.7
45°	957.4	716.1	147.7	54.1	37.8	25.8	19.7	15.5	12.0	11.2	10.3
47.5°	1050.1	753.0	116.8	48.1	31.8	21.5	16.3	12.0	9.4	8.6	7.7
50°	1190.9	837.1	95.3	42.9	26.6	18.0	12.9	9.4	6.9	6.0	6.0
52.5°	1375.5	950.5	82.4	37.8	21.5	15.5	10.3	6.9	5.2	4.3	4.3
55°	1564.4	1084.4	77.3	32.6	18.0	12.9	7.7	5.2	3.4	2.6	2.6
57.5°	1737.8	1171.2	74.7	26.6	15.5	9.4	6.0	3.4	1.7	0.9	0.9
60°	1846.0	1234.7	67.0	21.5	12.0	7.7	4.3	1.7	0.9	0.0	0.0
62.5°	1988.6	1299.1	55.0	16.3	8.6	5.2	2.6	0.9	0.0	0.0	0.0
65°	2176.6	1371.2	42.9	12.9	6.9	3.4	1.7	0.9	0.0	0.0	0.0
67.5°	2266.7	1333.4	29.2	9.4	4.3	1.7	0.9	0.0	0.0	0.0	0.0
70°	2086.4	1123.1	20.6	6.9	2.6	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1754.2	880.1	15.5	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
75°	1293.1	550.4	12.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	686.0	205.2	8.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	202.6	60.1	6.0	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.0	18.0	3.4	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.3	6.9	1.7	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.7	2.6	1.7	1.7	0.9	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)