

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: P676922

Luminaire Tested: **CCW-SA-2A-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676922
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

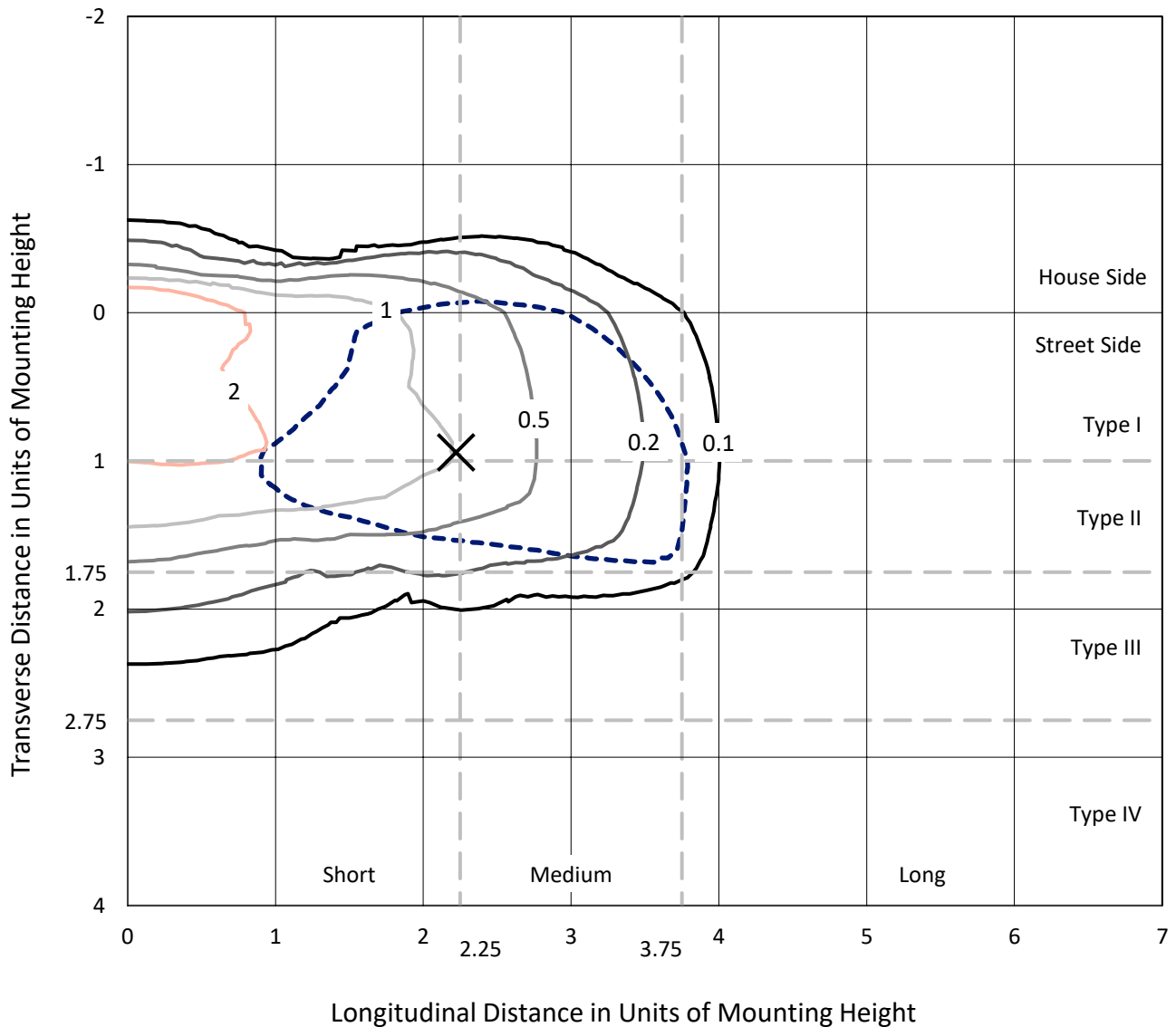
Lumens per Lamp: N/A
Luminaire Lumens: 3751.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (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

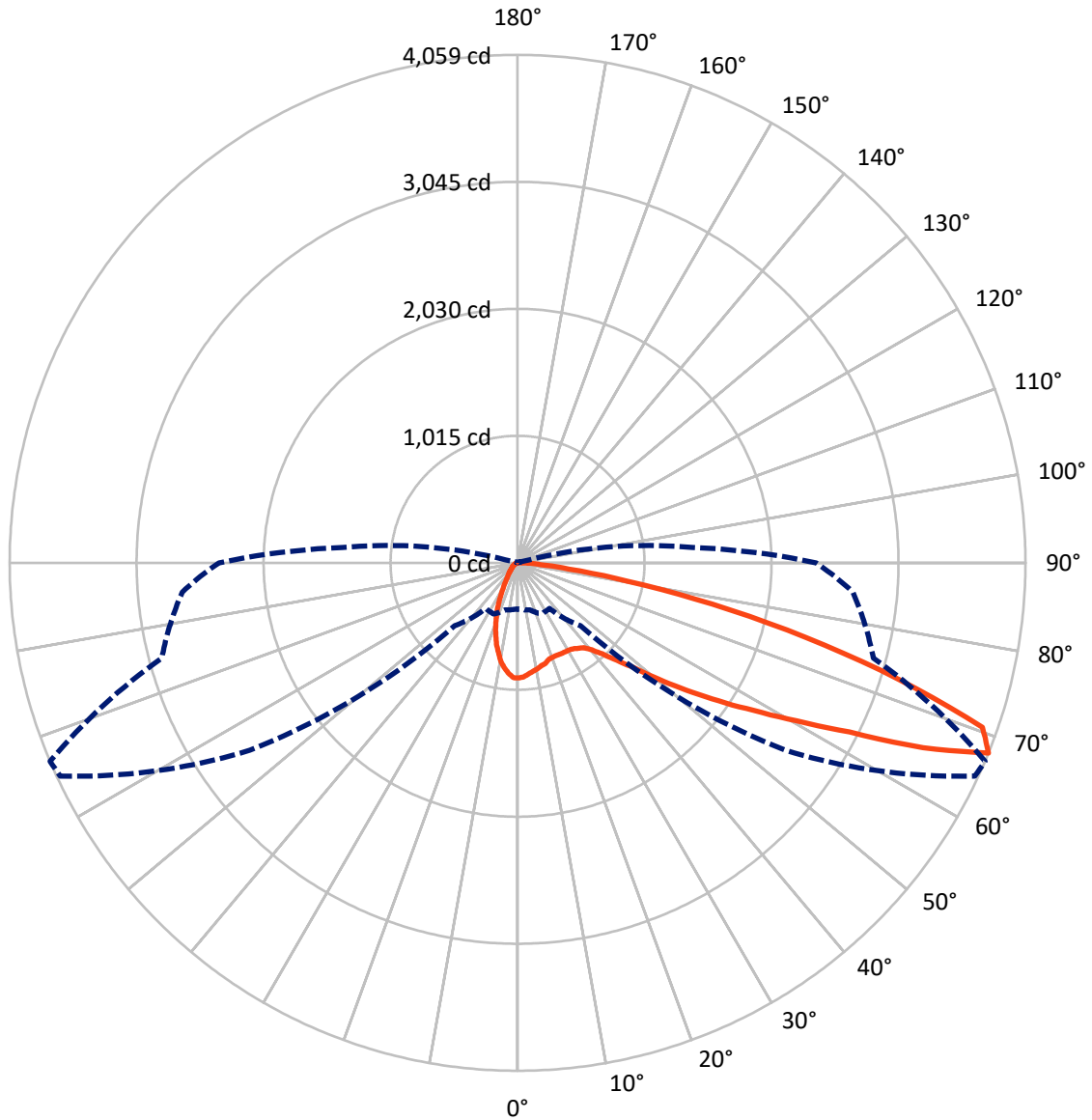
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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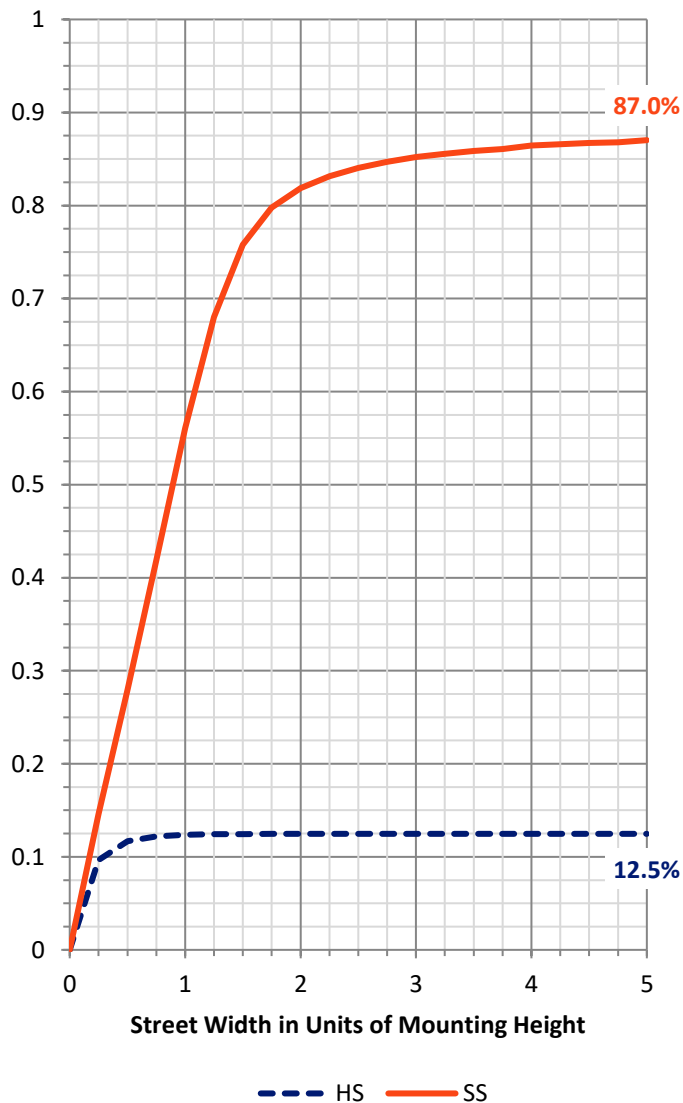
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.1	0.0	472.1
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	3279.3	0.0	3279.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	3751.5	0.0	3751.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	2.1
10°-20°	172.2	4.6
20°-30°	244.9	6.5
30°-40°	356.6	9.5
40°-50°	551.9	14.7
50°-60°	847.0	22.6
60°-70°	918.2	24.5
70°-80°	518.0	13.8
80°-90°	65.1	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°	3751.5	100.0
0°-180°	3751.5	100.0

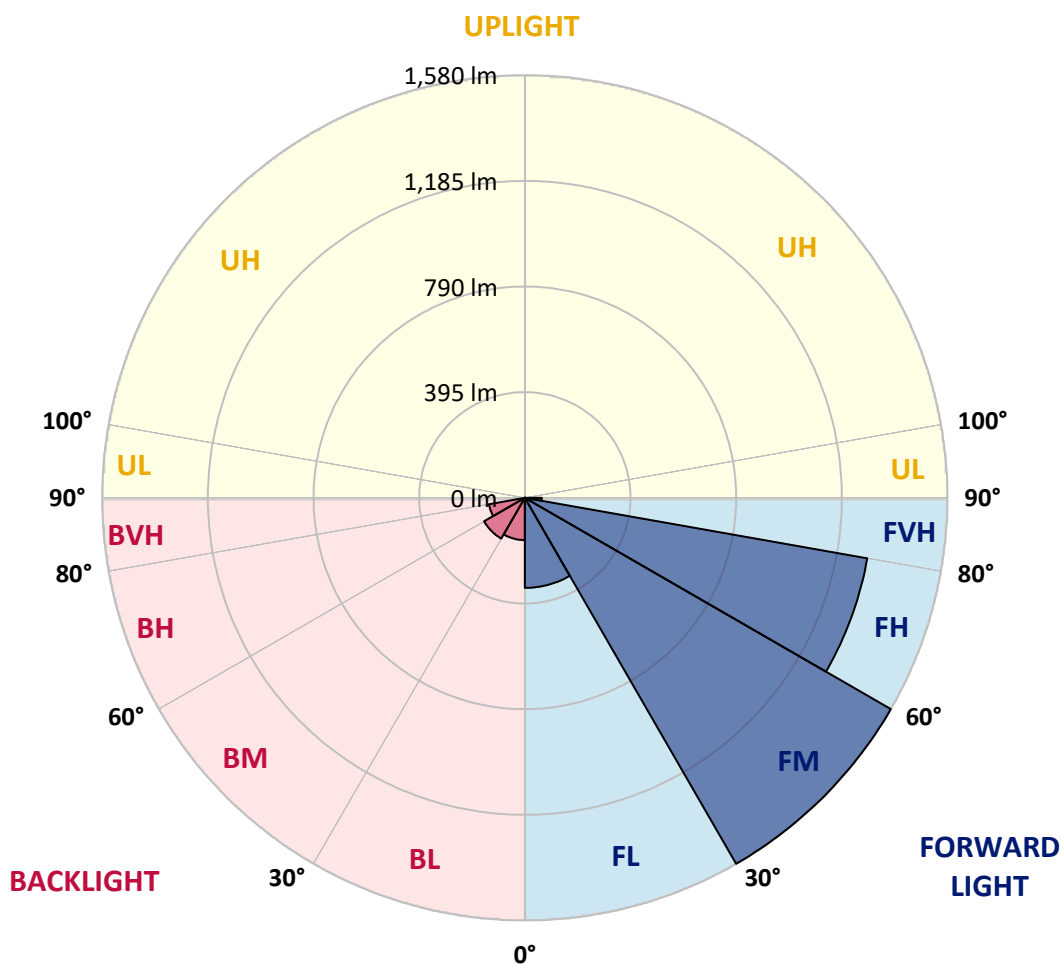


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.6	9.0			
FM (30°-60°)	1579.7	42.1			
FH (60°-80°)	1299.8	34.6			G1/1800
FVH (80°-90°)	63.2	1.7			G1/100
BL (0°-30°)	158.0	4.2	B1/500		
BM (30°-60°)	175.9	4.7	B0/220		
BH (60°-80°)	136.4	3.6	B1/500		G1/500
BVH (80°-90°)	1.9	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°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	880.4	884.9	891.2	900.3	906.6	903.0	905.7	921.1	912.9	920.2	916.6
5°	831.6	836.1	845.1	844.2	851.5	865.0	883.1	903.0	894.0	915.6	923.8
7.5°	781.0	779.2	779.2	798.1	813.5	832.5	842.4	875.0	875.9	894.9	914.7
10°	734.9	740.3	749.3	756.6	771.0	798.1	827.1	852.4	862.3	900.3	905.7
12.5°	706.8	709.6	720.4	726.7	745.7	771.9	802.7	835.2	843.3	882.2	908.4
15°	695.1	701.4	705.0	716.8	726.7	751.1	773.7	810.8	834.3	865.0	897.6
17.5°	704.1	701.4	703.2	706.8	718.6	740.3	764.7	801.8	809.9	861.4	910.2
20°	715.9	716.8	711.4	709.6	706.8	727.6	747.5	795.4	804.5	861.4	918.4
22.5°	747.5	737.6	747.5	733.1	718.6	727.6	746.6	796.3	802.7	860.5	926.5
25°	786.4	788.2	790.9	760.2	739.4	733.1	752.9	799.0	804.5	867.7	930.1
27.5°	841.5	849.7	836.1	820.7	779.2	747.5	752.0	797.2	807.2	864.1	939.2
30°	915.6	909.3	911.1	875.9	835.2	785.5	772.8	801.8	809.0	868.6	956.3
32.5°	979.8	972.6	985.2	972.6	908.4	839.7	797.2	810.8	818.9	879.5	970.8
35°	1019.6	1028.6	1048.5	1062.1	1007.8	910.2	837.9	835.2	838.8	884.9	981.6
37.5°	1081.1	1097.3	1113.6	1148.0	1100.9	997.0	902.1	866.8	860.5	911.1	987.1
40°	1148.0	1143.4	1191.3	1232.0	1230.2	1119.0	991.6	922.9	913.8	952.7	1023.2
42.5°	1204.0	1199.5	1252.8	1319.7	1326.9	1236.5	1093.7	1002.4	994.3	1016.9	1067.5
45°	1277.2	1280.8	1344.1	1423.6	1449.9	1392.0	1232.0	1116.3	1111.8	1104.6	1151.6
47.5°	1342.3	1362.2	1416.4	1510.4	1605.3	1552.9	1394.7	1282.6	1251.0	1234.7	1281.7
50°	1387.5	1405.6	1471.5	1571.9	1745.4	1778.9	1577.3	1459.8	1460.7	1420.9	1446.2
52.5°	1387.5	1386.6	1439.9	1571.9	1843.0	2014.8	1821.4	1683.1	1690.3	1648.7	1650.5
55°	1253.7	1251.0	1316.1	1456.2	1832.2	2241.7	2191.1	1966.0	1947.9	1867.5	1875.6
57.5°	1009.7	1016.0	1065.7	1233.8	1691.2	2347.4	2631.2	2284.2	2222.7	2056.4	2056.4
60°	736.7	731.3	768.3	885.8	1354.9	2307.7	2992.8	2659.3	2562.6	2212.7	2189.2
62.5°	560.4	559.5	569.5	609.2	859.6	2012.1	3148.3	3136.5	2979.2	2366.4	2333.0
65°	452.9	454.7	468.2	496.2	525.2	1372.1	3066.0	3706.0	3562.3	2595.1	2485.7
67.5°	369.7	374.2	390.5	451.0	444.7	710.5	2611.4	4032.3	4059.4	2944.0	2690.9
70°	284.7	292.0	310.9	396.8	428.4	472.7	1810.5	3869.6	3941.9	3160.9	2567.1
72.5°	193.4	192.5	233.2	321.8	433.0	433.0	1007.8	3116.6	3185.3	2914.2	2229.9
75°	104.9	111.2	154.6	243.1	396.8	418.5	574.0	2280.5	2377.3	2266.1	1724.6
77.5°	56.9	57.8	85.9	159.1	329.9	399.5	383.3	1551.1	1589.1	1366.7	944.6
80°	29.8	30.7	45.2	103.9	227.8	370.6	319.1	924.7	888.5	524.3	311.8
82.5°	13.6	14.5	22.6	65.1	145.5	292.0	275.7	446.5	412.2	146.4	94.9
85°	5.4	5.4	9.9	38.9	85.0	143.7	235.9	224.2	187.1	44.3	47.0
87.5°	1.8	1.8	2.7	15.4	34.3	85.9	125.6	118.4	81.4	16.3	25.3
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°	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2	920.2
2.5°	912.9	922.9	920.2	918.4	901.2	899.4	897.6	881.3	886.7	873.2	882.2
5°	918.4	923.8	909.3	882.2	857.8	830.7	809.9	795.4	769.2	759.3	757.5
7.5°	912.9	912.9	883.1	839.7	791.8	747.5	691.5	651.7	621.9	599.3	607.4
10°	905.7	894.9	864.1	787.3	700.5	633.6	553.2	494.4	450.1	435.7	426.6
12.5°	905.7	886.7	818.0	713.2	601.1	499.9	404.0	327.2	284.7	259.4	255.8
15°	897.6	869.6	784.6	643.6	504.4	367.0	257.6	191.6	155.5	145.5	141.9
17.5°	899.4	865.9	734.9	561.3	391.4	244.1	157.3	121.1	112.1	107.6	108.5
20°	903.0	865.9	690.6	480.9	282.0	151.9	108.5	102.1	97.6	95.8	96.7
22.5°	914.7	848.8	645.4	398.6	190.7	109.4	95.8	89.5	85.9	83.2	82.3
25°	916.6	846.0	602.0	317.3	131.1	92.2	84.1	76.8	72.3	68.7	67.8
27.5°	913.8	834.3	541.4	235.9	98.5	82.3	71.4	64.2	57.8	55.1	54.2
30°	923.8	812.6	489.9	169.9	83.2	71.4	60.6	52.4	47.0	43.4	43.4
32.5°	924.7	793.6	433.0	121.1	75.9	63.3	51.5	42.5	37.1	35.3	35.3
35°	925.6	776.4	369.7	92.2	67.8	54.2	42.5	35.3	31.6	28.9	28.9
37.5°	928.3	763.8	311.8	77.7	60.6	46.1	35.3	28.9	25.3	24.4	24.4
40°	933.7	746.6	251.3	68.7	52.4	38.9	29.8	24.4	20.8	19.9	19.0
42.5°	948.2	742.1	200.7	61.5	47.0	32.5	24.4	19.9	17.2	15.4	14.5
45°	1007.8	753.9	155.5	56.9	39.8	27.1	20.8	16.3	12.7	11.8	10.8
47.5°	1105.5	792.7	122.9	50.6	33.4	22.6	17.2	12.7	9.9	9.0	8.1
50°	1253.7	881.3	100.3	45.2	28.0	19.0	13.6	9.9	7.2	6.3	6.3
52.5°	1448.0	1000.6	86.8	39.8	22.6	16.3	10.8	7.2	5.4	4.5	4.5
55°	1646.9	1141.6	81.4	34.3	19.0	13.6	8.1	5.4	3.6	2.7	2.7
57.5°	1829.5	1232.9	78.6	28.0	16.3	9.9	6.3	3.6	1.8	0.9	0.9
60°	1943.4	1299.8	70.5	22.6	12.7	8.1	4.5	1.8	0.9	0.0	0.0
62.5°	2093.4	1367.6	57.8	17.2	9.0	5.4	2.7	0.9	0.0	0.0	0.0
65°	2291.4	1443.5	45.2	13.6	7.2	3.6	1.8	0.9	0.0	0.0	0.0
67.5°	2386.3	1403.8	30.7	9.9	4.5	1.8	0.9	0.0	0.0	0.0	0.0
70°	2196.5	1182.3	21.7	7.2	2.7	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1846.7	926.5	16.3	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	1361.3	579.4	12.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	722.2	216.0	9.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	213.3	63.3	6.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.5	19.0	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.2	7.2	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	2.7	1.8	1.8	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)