

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: P675490

Luminaire Tested: **CCW-SA-1D-850-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675490
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

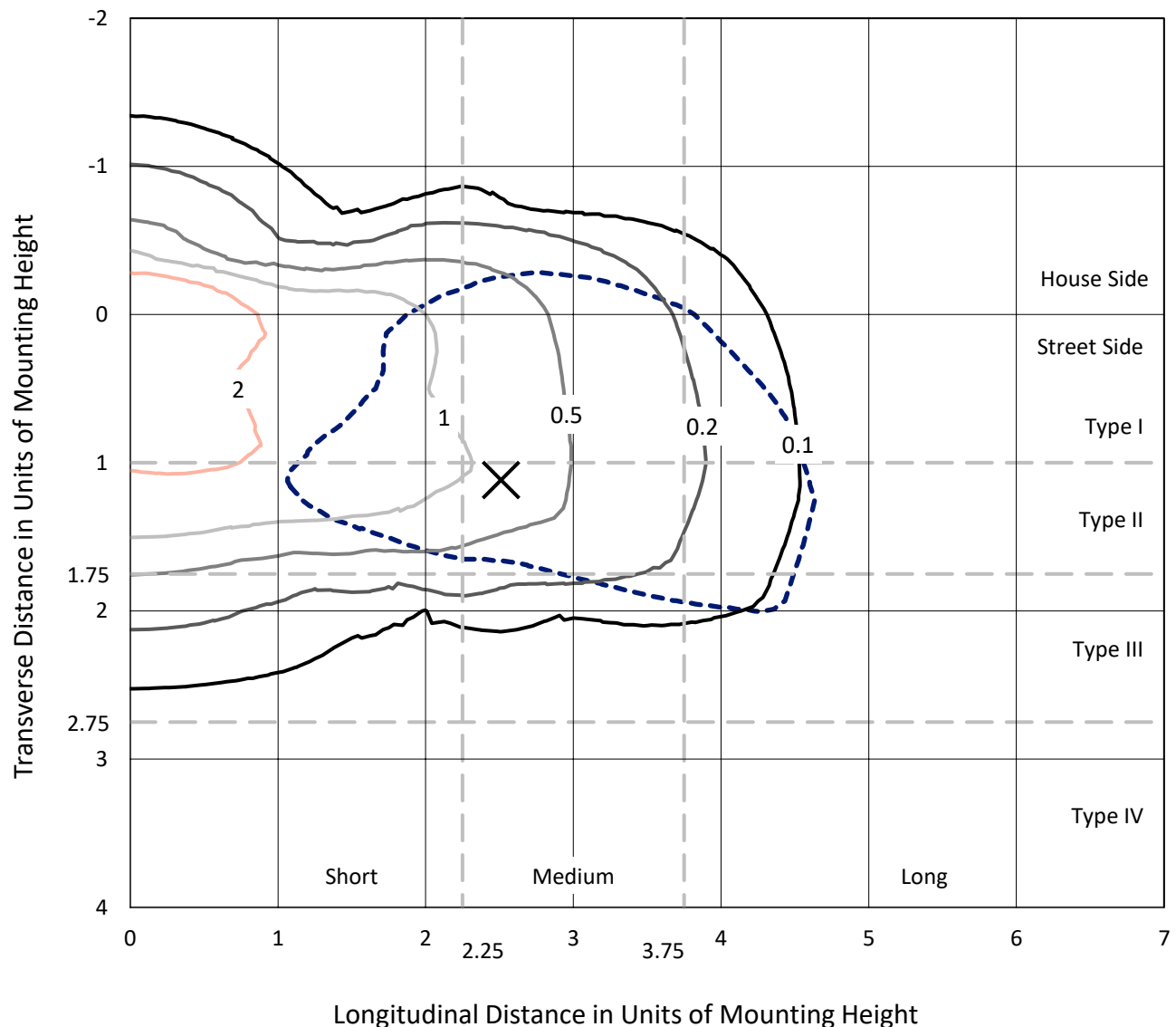
Lumens per Lamp: N/A
Luminaire Lumens: 4816.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

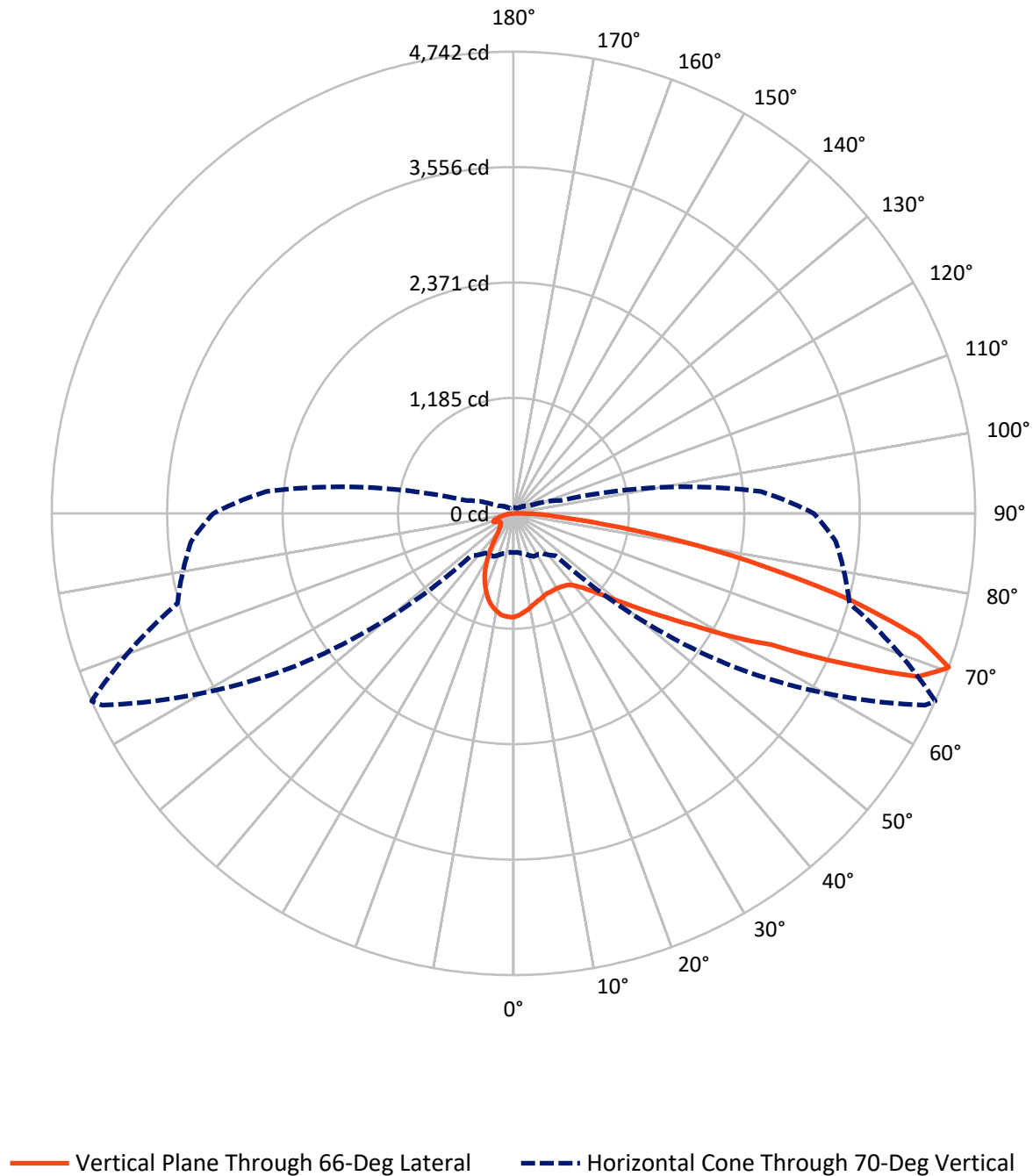
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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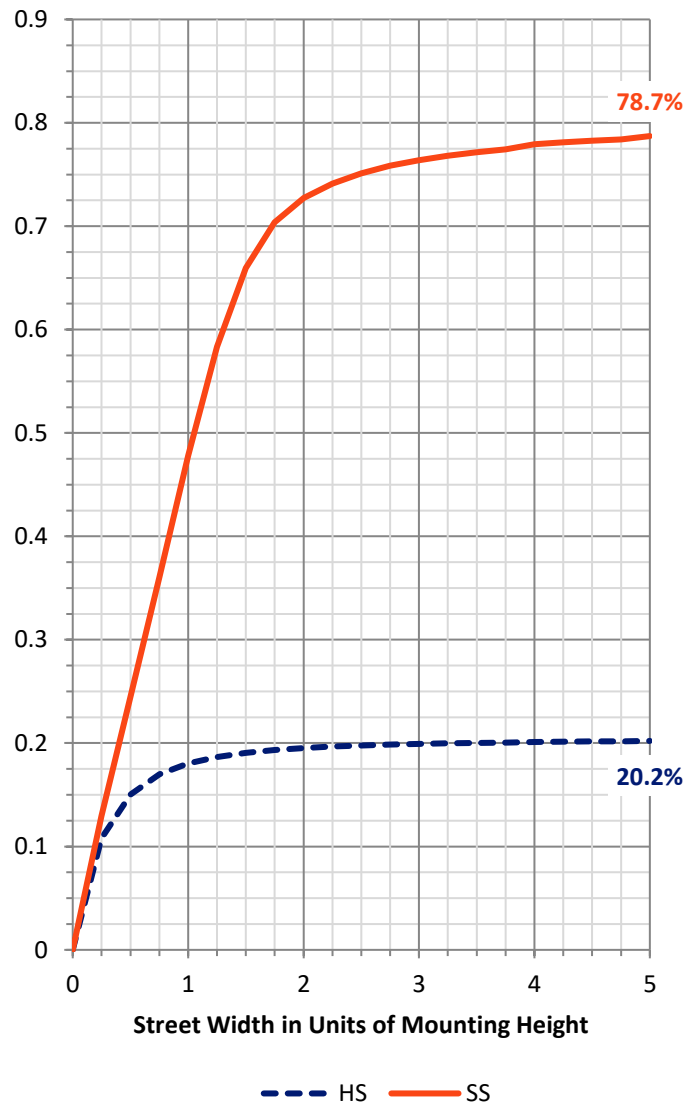
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.8	0.0	985.8
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3830.4	0.0	3830.4
	% Fixture	79.5	0.0	79.5
Total	Lumens	4816.2	0.0	4816.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	2.0
10°-20°	231.6	4.8
20°-30°	318.1	6.6
30°-40°	426.5	8.9
40°-50°	618.8	12.8
50°-60°	940.6	19.5
60°-70°	1161.6	24.1
70°-80°	863.8	17.9
80°-90°	161.1	3.3
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°	4816.2	100.0
0°-180°	4816.2	100.0

Coefficient of Utilization



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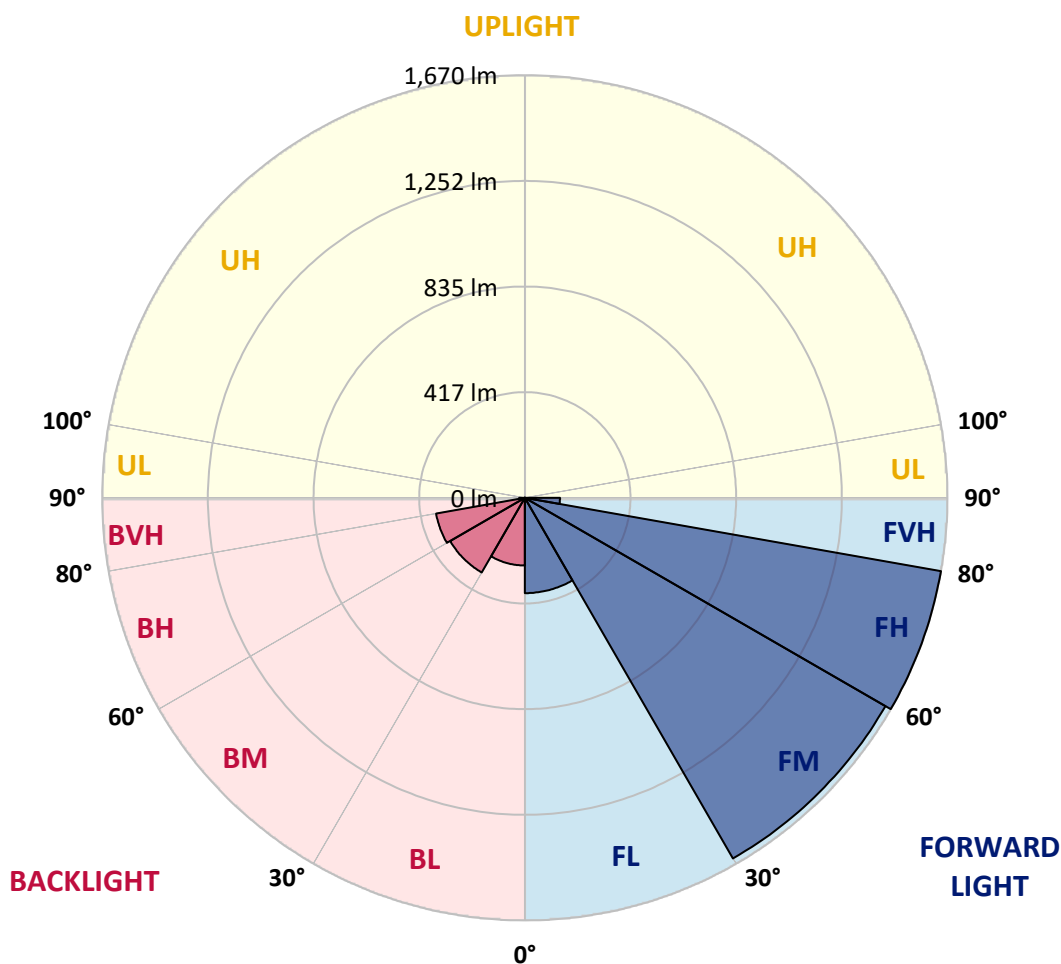
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	376.6	7.8			
FM	(30°-60°)	1645.3	34.2			
FH	(60°-80°)	1669.6	34.7			G1/1800
FVH	(80°-90°)	138.9	2.9			G2/225
BL	(0°-30°)	267.2	5.5	B1/500		
BM	(30°-60°)	340.5	7.1	B1/1000		
BH	(60°-80°)	355.9	7.4	B1/500		G1/500
BVH	(80°-90°)	22.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1012.1	1017.5	1019.3	1022.9	1031.8	1039.0	1049.7	1055.1	1049.7	1056.9	1056.9
5°	942.2	935.1	953.0	960.2	970.9	985.2	1010.3	1030.0	1024.6	1046.1	1064.1
7.5°	883.1	883.1	888.5	904.6	917.2	938.7	965.5	996.0	1004.9	1033.6	1060.5
10°	829.4	836.6	836.6	861.6	868.8	893.9	938.7	976.3	978.1	1026.4	1064.1
12.5°	800.7	797.1	815.1	822.2	843.7	868.8	904.6	951.2	953.0	1004.9	1056.9
15°	777.4	781.0	790.0	807.9	827.6	847.3	881.3	924.3	933.3	994.2	1053.3
17.5°	779.2	781.0	781.0	793.6	809.7	833.0	865.2	915.4	920.7	979.9	1047.9
20°	790.0	782.8	788.2	793.6	804.3	825.8	852.7	895.7	901.0	978.1	1060.5
22.5°	813.3	807.9	806.1	804.3	802.5	815.1	849.1	884.9	890.3	969.1	1065.8
25°	850.9	849.1	836.6	824.0	815.1	815.1	841.9	893.9	892.1	969.1	1069.4
27.5°	895.7	895.7	893.9	870.6	843.7	829.4	847.3	890.3	888.5	969.1	1078.4
30°	956.6	956.6	951.2	929.7	881.3	840.1	850.9	886.7	892.1	961.9	1071.2
32.5°	1022.9	1021.1	1026.4	1006.7	956.6	890.3	872.4	893.9	899.2	969.1	1073.0
35°	1071.2	1082.0	1099.9	1082.0	1031.8	942.2	902.8	908.2	911.8	970.9	1080.2
37.5°	1126.7	1139.3	1164.4	1178.7	1125.0	1021.1	951.2	931.5	931.5	994.2	1082.0
40°	1207.4	1194.8	1237.8	1262.9	1241.4	1117.8	1026.4	974.5	976.3	1024.6	1105.3
42.5°	1266.5	1279.0	1323.8	1368.6	1341.7	1236.0	1108.8	1044.3	1044.3	1069.4	1141.1
45°	1332.8	1347.1	1409.8	1463.5	1483.2	1377.5	1221.7	1144.7	1141.1	1157.2	1205.6
47.5°	1406.2	1425.9	1497.6	1560.3	1612.2	1524.4	1366.8	1266.5	1264.7	1277.2	1313.0
50°	1490.4	1497.6	1556.7	1671.3	1775.2	1719.7	1544.1	1438.4	1429.5	1434.9	1483.2
52.5°	1515.5	1510.1	1578.2	1701.8	1891.6	1957.9	1786.0	1633.7	1630.1	1617.6	1680.3
55°	1424.1	1442.0	1508.3	1665.9	1986.6	2239.2	2051.1	1900.6	1868.4	1834.3	1909.6
57.5°	1241.4	1243.2	1318.4	1504.7	1913.1	2472.0	2500.7	2162.1	2163.9	2072.6	2158.6
60°	965.5	960.2	1019.3	1187.7	1703.6	2543.7	2991.5	2579.5	2561.6	2310.8	2389.6
62.5°	696.8	686.1	698.6	797.1	1273.6	2434.4	3473.4	3047.1	2971.8	2554.4	2615.3
65°	573.2	578.6	584.0	589.3	714.7	2008.1	3622.1	3810.2	3709.9	2839.3	2864.3
67.5°	474.7	478.3	501.6	533.8	530.2	1185.9	3450.1	4516.0	4478.3	3192.2	3079.3
70°	403.1	401.3	428.1	487.2	496.2	616.2	2731.8	4661.0	4741.7	3571.9	3322.9
72.5°	322.4	326.0	349.3	428.1	487.2	519.5	1572.8	4349.4	4347.6	3863.9	3192.2
75°	231.1	231.1	263.3	354.7	471.1	514.1	870.6	3530.7	3597.0	3631.0	2769.4
77.5°	152.3	159.4	184.5	265.1	442.5	503.4	551.7	2567.0	2649.4	2715.7	2119.1
80°	103.9	107.5	123.6	184.5	374.4	506.9	451.4	1726.8	1759.1	1499.3	859.8
82.5°	62.7	64.5	82.4	129.0	268.7	481.9	424.5	953.0	933.3	453.2	247.2
85°	34.0	35.8	51.9	86.0	177.3	421.0	417.4	467.5	435.3	166.6	103.9
87.5°	12.5	12.5	23.3	43.0	102.1	288.4	363.6	277.7	259.7	84.2	48.4
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°	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1	1064.1
2.5°	1065.8	1065.8	1065.8	1065.8	1064.1	1056.9	1062.3	1060.5	1049.7	1051.5	1044.3
5°	1062.3	1071.2	1065.8	1058.7	1049.7	1028.2	1021.1	1015.7	1001.4	996.0	1001.4
7.5°	1071.2	1064.1	1060.5	1047.9	1012.1	992.4	967.3	936.9	915.4	910.0	915.4
10°	1069.4	1069.4	1053.3	1017.5	983.4	926.1	893.9	840.1	809.7	800.7	802.5
12.5°	1062.3	1067.6	1042.6	985.2	920.7	850.9	791.8	734.4	680.7	659.2	655.6
15°	1069.4	1064.1	1019.3	945.8	856.3	759.5	673.5	589.3	539.2	506.9	499.8
17.5°	1058.7	1053.3	988.8	892.1	772.1	648.5	541.0	449.6	399.5	386.9	386.9
20°	1071.2	1037.2	953.0	827.6	684.3	526.7	404.8	336.8	324.2	324.2	327.8
22.5°	1069.4	1033.6	922.5	764.9	578.6	397.7	300.9	281.2	283.0	297.4	295.6
25°	1058.7	1026.4	879.5	695.0	467.5	299.2	249.0	243.6	256.2	272.3	270.5
27.5°	1056.9	1006.7	840.1	612.6	356.5	236.5	216.8	216.8	229.3	243.6	241.8
30°	1046.1	990.6	791.8	519.5	268.7	206.0	198.8	198.8	204.2	211.4	211.4
32.5°	1044.3	969.1	738.0	422.8	215.0	186.3	182.7	184.5	184.5	188.1	186.3
35°	1030.0	940.5	682.5	327.8	186.3	175.6	172.0	170.2	170.2	168.4	168.4
37.5°	1024.6	922.5	625.2	254.4	173.8	166.6	163.0	157.6	155.8	155.8	154.1
40°	1030.0	904.6	569.6	206.0	163.0	159.4	154.1	146.9	145.1	145.1	145.1
42.5°	1049.7	902.8	512.3	179.1	157.6	152.3	145.1	137.9	136.1	137.9	136.1
45°	1094.5	917.2	456.8	166.6	150.5	145.1	136.1	130.8	129.0	130.8	130.8
47.5°	1167.9	956.6	406.6	159.4	145.1	137.9	129.0	123.6	123.6	123.6	123.6
50°	1289.8	1031.8	358.3	154.1	141.5	132.6	123.6	116.4	114.6	114.6	116.4
52.5°	1472.5	1160.8	318.9	150.5	136.1	125.4	116.4	111.1	107.5	105.7	107.5
55°	1692.8	1348.9	306.3	146.9	129.0	120.0	111.1	103.9	100.3	100.3	98.5
57.5°	1929.3	1556.7	327.8	143.3	123.6	112.9	103.9	96.7	93.1	91.4	91.4
60°	2185.4	1802.1	406.6	141.5	118.2	105.7	96.7	91.4	86.0	84.2	84.2
62.5°	2418.3	2024.2	548.1	139.7	114.6	98.5	89.6	82.4	78.8	77.0	77.0
65°	2683.4	2271.4	686.1	146.9	112.9	93.1	82.4	75.2	71.7	69.9	69.9
67.5°	2914.5	2486.4	766.7	164.8	118.2	86.0	73.4	68.1	66.3	64.5	64.5
70°	3082.9	2552.7	514.1	180.9	127.2	80.6	66.3	62.7	59.1	59.1	59.1
72.5°	2857.2	2278.6	304.5	170.2	120.0	75.2	59.1	55.5	53.7	53.7	51.9
75°	2443.4	1940.0	234.7	137.9	96.7	64.5	51.9	48.4	46.6	46.6	44.8
77.5°	1803.9	1390.1	173.8	109.3	75.2	51.9	44.8	43.0	41.2	39.4	39.4
80°	705.8	609.1	118.2	80.6	55.5	41.2	37.6	35.8	34.0	32.2	32.2
82.5°	218.5	184.5	68.1	53.7	39.4	32.2	30.5	28.7	26.9	25.1	25.1
85°	94.9	91.4	44.8	34.0	26.9	21.5	21.5	19.7	17.9	16.1	16.1
87.5°	46.6	44.8	25.1	16.1	14.3	10.7	10.7	9.0	7.2	7.2	7.2
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)