

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: P675683

Luminaire Tested: **CCW-SA-2B-730-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675683
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

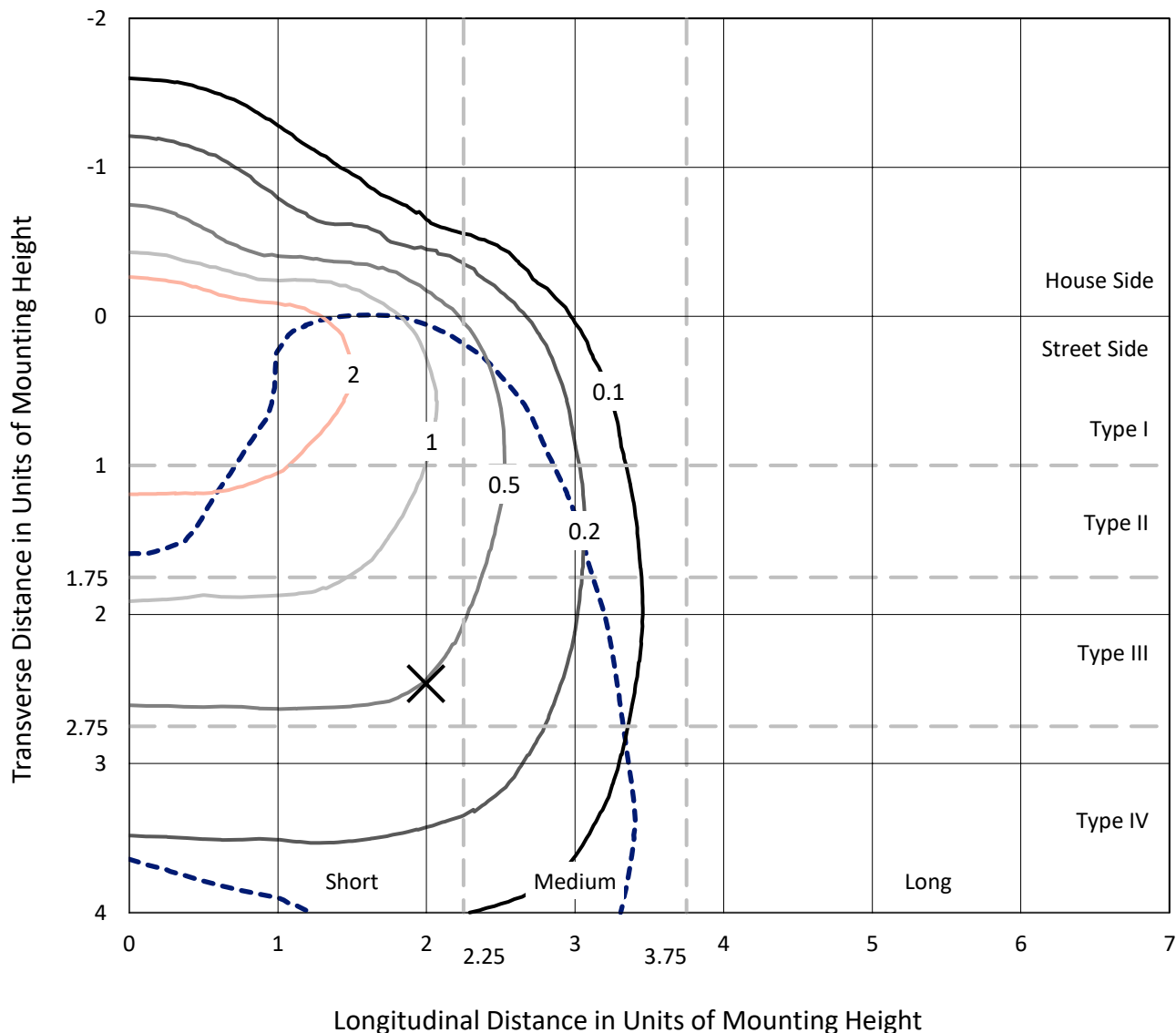
Lumens per Lamp: N/A
Luminaire Lumens: 6162.5 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

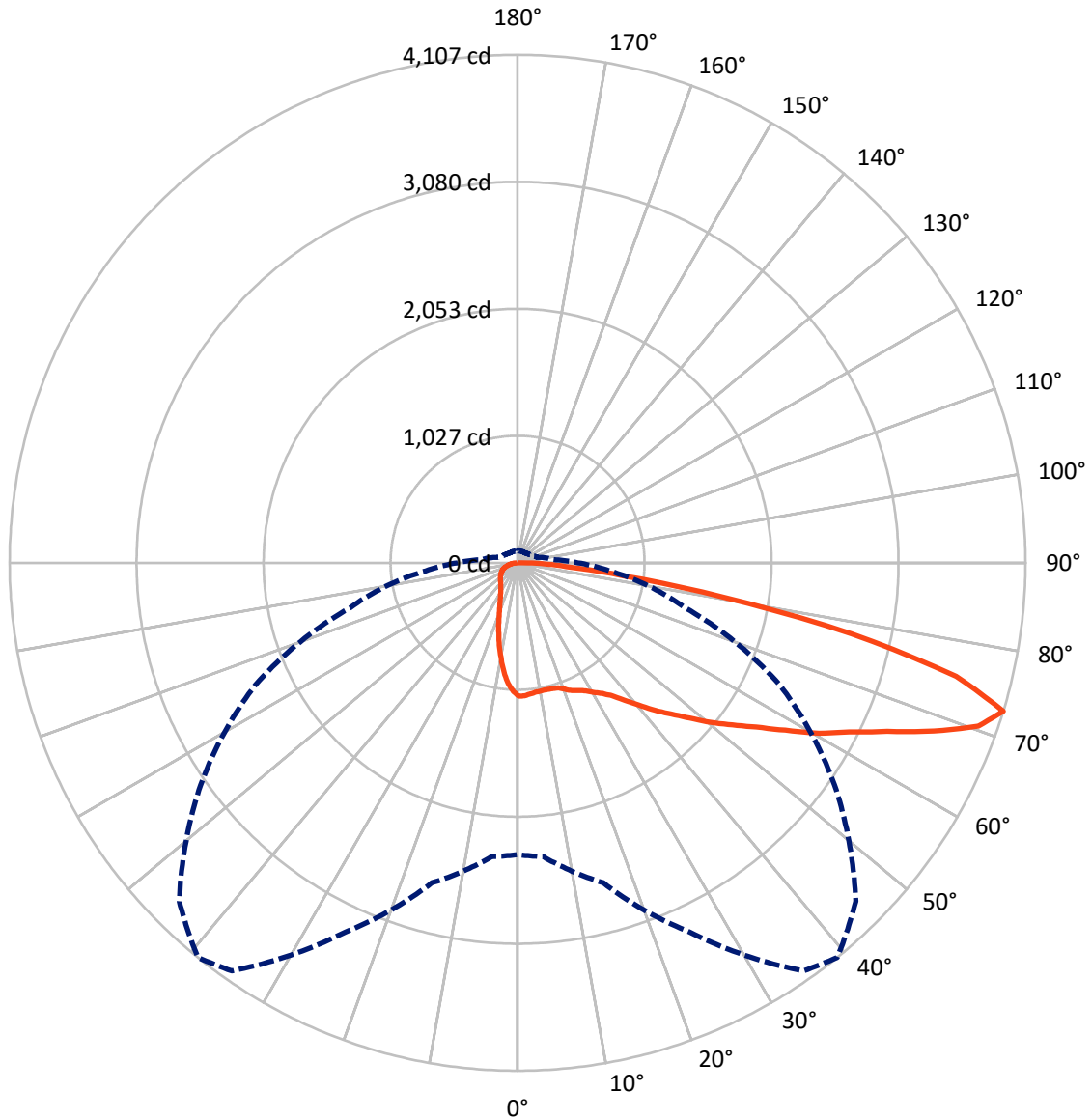
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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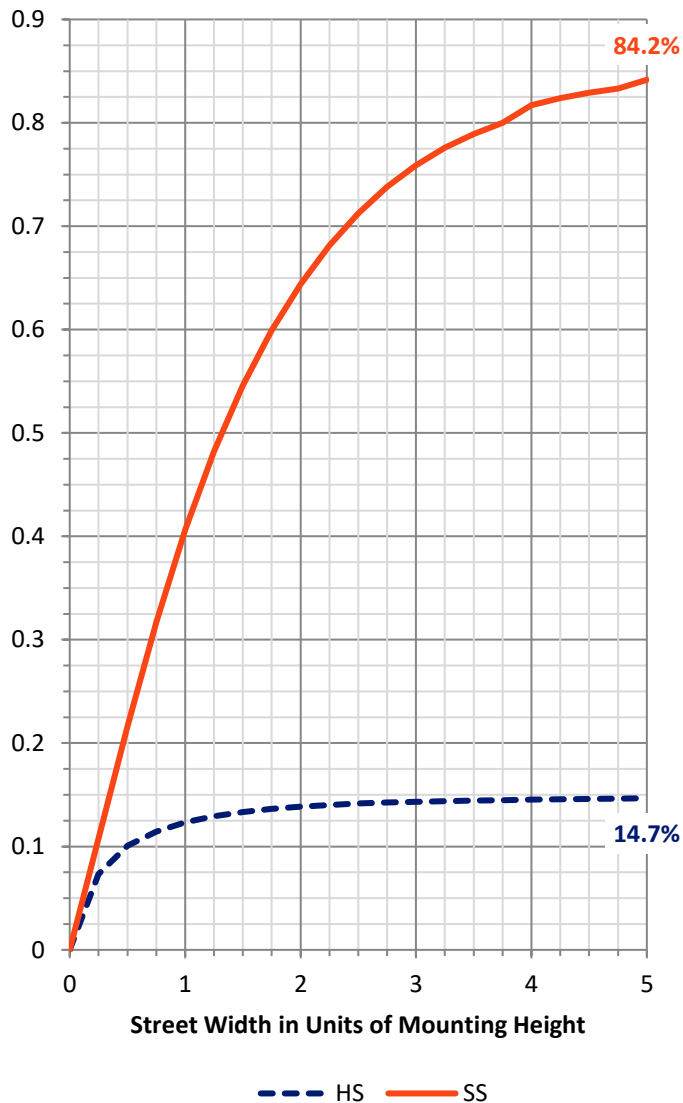
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	915.9	0.0	915.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5246.6	0.0	5246.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	6162.5	0.0	6162.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.5
10°-20°	243.3	3.9
20°-30°	370.6	6.0
30°-40°	542.2	8.8
40°-50°	830.1	13.5
50°-60°	1217.4	19.8
60°-70°	1552.6	25.2
70°-80°	1121.8	18.2
80°-90°	189.2	3.1
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°	6162.5	100.0
0°-180°	6162.5	100.0

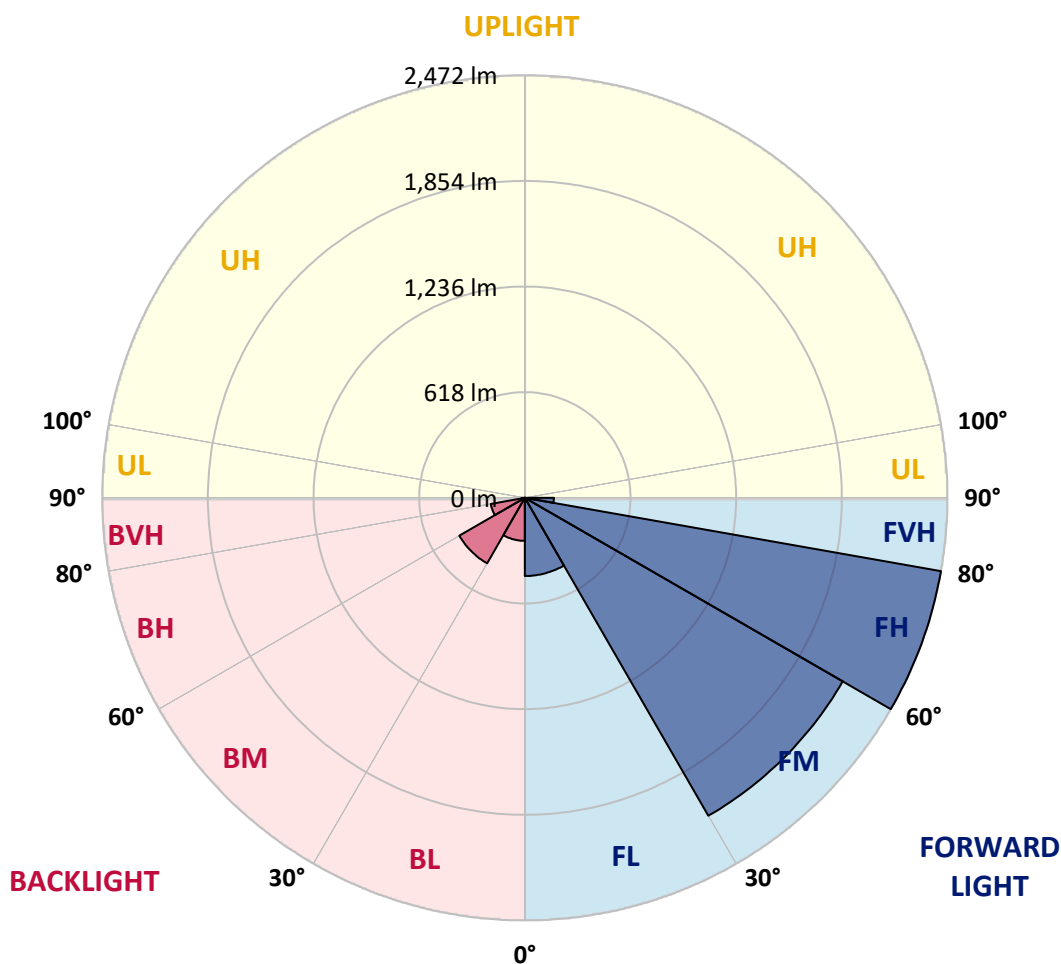


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.3	7.4			
FM (30°-60°)	2147.2	34.8			
FH (60°-80°)	2472.1	40.1			G2/5000
FVH (80°-90°)	170.1	2.8			G2/225
BL (0°-30°)	251.9	4.1	B1/500		
BM (30°-60°)	442.5	7.2	B1/1000		
BH (60°-80°)	202.4	3.3	B1/500		G1/500
BVH (80°-90°)	19.2	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7
2.5°	1094.9	1097.2	1092.6	1088.0	1085.7	1076.4	1085.7	1081.0	1076.4	1076.4	1076.4
5°	1081.0	1083.3	1083.3	1078.7	1081.0	1064.8	1062.5	1064.8	1057.9	1053.2	1050.9
7.5°	1060.2	1064.8	1074.1	1071.8	1062.5	1055.6	1057.9	1055.6	1044.0	1037.0	1018.5
10°	1044.0	1048.6	1053.2	1057.9	1055.6	1053.2	1050.9	1041.7	1039.4	1023.2	1004.6
12.5°	1027.8	1027.8	1030.1	1048.6	1050.9	1050.9	1037.0	1037.0	1030.1	1027.8	1000.0
15°	1011.6	1018.5	1037.0	1041.7	1050.9	1055.6	1048.6	1048.6	1037.0	1020.8	1000.0
17.5°	1016.2	1027.8	1046.3	1057.9	1062.5	1062.5	1071.8	1064.8	1048.6	1039.4	1018.5
20°	1039.4	1041.7	1064.8	1085.7	1090.3	1090.3	1081.0	1074.1	1062.5	1046.3	1018.5
22.5°	1053.2	1069.5	1097.2	1108.8	1122.7	1122.7	1111.1	1094.9	1078.7	1062.5	1032.4
25°	1113.4	1115.8	1127.3	1145.8	1152.8	1143.5	1132.0	1113.4	1092.6	1076.4	1048.6
27.5°	1155.1	1166.7	1180.6	1189.8	1178.3	1171.3	1162.0	1141.2	1125.0	1111.1	1071.8
30°	1231.5	1217.6	1226.9	1231.5	1210.7	1215.3	1189.8	1171.3	1152.8	1152.8	1108.8
32.5°	1277.8	1289.4	1280.1	1277.8	1261.6	1259.3	1243.1	1222.2	1210.7	1224.5	1164.4
35°	1358.8	1351.9	1351.9	1349.5	1331.0	1319.5	1319.5	1282.4	1294.0	1324.1	1250.0
37.5°	1400.5	1398.2	1412.0	1423.6	1405.1	1412.0	1405.1	1388.9	1393.5	1446.8	1356.5
40°	1442.1	1458.3	1486.1	1490.8	1502.3	1511.6	1507.0	1504.6	1523.2	1608.8	1500.0
42.5°	1481.5	1495.4	1537.1	1574.1	1601.9	1632.0	1634.3	1634.3	1694.5	1817.1	1673.6
45°	1532.4	1544.0	1601.9	1675.9	1722.2	1743.1	1761.6	1782.4	1863.4	2009.3	1858.8
47.5°	1601.9	1611.1	1680.6	1773.2	1863.4	1875.0	1912.1	1935.2	2057.9	2206.0	2048.6
50°	1701.4	1694.5	1750.0	1884.3	1972.2	2027.8	2081.0	2122.7	2243.1	2405.1	2196.8
52.5°	1782.4	1782.4	1824.1	2002.3	2122.7	2175.9	2231.5	2289.4	2428.3	2604.2	2317.1
55°	1921.3	1907.4	1932.9	2118.1	2291.7	2342.6	2449.1	2497.7	2632.0	2752.3	2419.0
57.5°	2016.2	2023.2	2053.3	2270.9	2490.8	2553.3	2659.7	2694.5	2812.5	2907.4	2493.1
60°	2141.2	2118.1	2182.9	2439.8	2710.7	2798.6	2886.6	2907.4	2995.4	3007.0	2527.8
62.5°	2261.6	2257.0	2312.5	2608.8	2946.8	3009.3	3099.6	3122.7	3159.7	3085.7	2479.2
65°	2335.7	2365.8	2469.9	2794.0	3215.3	3284.7	3375.0	3328.7	3287.1	3016.2	2240.8
67.5°	2437.5	2451.4	2611.1	2995.4	3525.5	3629.7	3708.4	3525.5	3215.3	2731.5	1886.6
70°	2460.7	2497.7	2706.0	3206.0	3844.9	3951.4	3956.1	3458.4	2953.7	2222.2	1368.1
72.5°	2358.8	2384.3	2678.3	3294.0	4027.8	4106.5	3868.1	3127.3	2340.3	1400.5	745.4
75°	1983.8	2055.6	2331.0	3023.2	3692.2	3662.1	3277.8	2386.6	1405.1	620.4	314.8
77.5°	1382.0	1384.3	1671.3	2199.1	2763.9	2757.0	2338.0	1384.3	601.9	250.0	185.2
80°	613.4	657.4	831.0	1185.2	1678.3	1678.3	1363.4	687.5	300.9	162.0	127.3
82.5°	361.1	375.0	444.4	553.2	817.1	861.1	652.8	458.3	206.0	101.9	78.7
85°	266.2	289.4	331.0	333.3	386.6	393.5	361.1	398.2	141.2	55.6	64.8
87.5°	199.1	213.0	263.9	219.9	206.0	194.4	222.2	407.4	53.2	27.8	20.8
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°	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7	1078.7
2.5°	1067.1	1067.1	1062.5	1053.2	1053.2	1034.7	1039.4	1044.0	1032.4	1032.4	1034.7
5°	1050.9	1041.7	1030.1	1016.2	1007.0	981.5	976.9	960.7	958.3	953.7	946.8
7.5°	1018.5	1004.6	983.8	963.0	932.9	909.7	882.0	858.8	849.5	842.6	840.3
10°	988.4	986.1	951.4	909.7	863.4	819.5	777.8	747.7	729.2	717.6	715.3
12.5°	988.4	969.9	921.3	863.4	796.3	731.5	678.2	636.6	611.1	592.6	585.7
15°	983.8	965.3	900.5	812.5	736.1	648.2	574.1	530.1	493.1	474.5	476.9
17.5°	988.4	960.7	870.4	775.5	669.0	574.1	486.1	432.9	395.8	381.9	379.6
20°	990.7	956.0	847.2	724.5	599.5	493.1	409.7	358.8	331.0	321.8	321.8
22.5°	986.1	942.1	812.5	664.4	539.4	425.9	356.5	312.5	294.0	282.4	287.0
25°	1007.0	939.8	780.1	613.4	469.9	370.4	317.1	284.7	273.2	266.2	268.5
27.5°	1011.6	939.8	754.6	555.6	409.7	328.7	287.0	266.2	256.9	252.3	250.0
30°	1030.1	944.5	724.5	497.7	361.1	296.3	263.9	252.3	245.4	243.1	243.1
32.5°	1081.0	958.3	692.1	449.1	319.4	268.5	247.7	238.4	233.8	231.5	233.8
35°	1141.2	995.4	657.4	398.2	289.4	250.0	233.8	226.9	224.5	224.5	224.5
37.5°	1233.8	1050.9	627.3	356.5	263.9	231.5	219.9	217.6	215.3	217.6	217.6
40°	1340.3	1111.1	599.5	324.1	245.4	219.9	208.3	208.3	206.0	208.3	210.6
42.5°	1463.0	1185.2	571.8	291.7	229.2	210.6	201.4	199.1	196.8	201.4	203.7
45°	1632.0	1287.0	553.2	273.2	217.6	201.4	192.1	192.1	189.8	189.8	194.4
47.5°	1773.2	1384.3	553.2	254.6	210.6	194.4	185.2	185.2	180.6	182.9	182.9
50°	1891.2	1467.6	564.8	250.0	201.4	187.5	180.6	175.9	173.6	173.6	173.6
52.5°	1969.9	1518.5	574.1	245.4	196.8	178.2	173.6	171.3	166.7	164.4	166.7
55°	2048.6	1553.3	576.4	245.4	189.8	169.0	164.4	164.4	159.7	157.4	157.4
57.5°	2078.7	1539.4	544.0	240.7	185.2	162.0	157.4	155.1	152.8	150.5	150.5
60°	2064.8	1488.4	472.2	229.2	180.6	157.4	148.1	148.1	148.1	143.5	145.8
62.5°	1969.9	1314.8	379.6	210.6	173.6	148.1	138.9	143.5	143.5	141.2	141.2
65°	1719.9	1085.7	307.9	194.4	164.4	141.2	131.9	138.9	141.2	138.9	136.6
67.5°	1375.0	835.7	254.6	175.9	152.8	129.6	122.7	129.6	131.9	129.6	129.6
70°	944.5	539.4	206.0	157.4	136.6	118.1	111.1	115.7	115.7	118.1	118.1
72.5°	488.4	291.7	169.0	134.3	118.1	106.5	99.5	99.5	97.2	97.2	97.2
75°	243.1	199.1	141.2	113.4	99.5	90.3	85.6	81.0	81.0	81.0	81.0
77.5°	169.0	152.8	115.7	90.3	81.0	74.1	74.1	67.1	67.1	67.1	67.1
80°	127.3	120.4	88.0	69.4	62.5	57.9	57.9	55.6	55.6	53.2	53.2
82.5°	90.3	97.2	67.1	50.9	46.3	44.0	44.0	41.7	41.7	37.0	37.0
85°	71.8	81.0	50.9	37.0	34.7	30.1	30.1	27.8	27.8	25.5	23.1
87.5°	20.8	44.0	20.8	13.9	13.9	13.9	13.9	11.6	11.6	9.3	9.3
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)