

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: P675339

Luminaire Tested: **CCW-SA-2B-840-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675339
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T4W distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

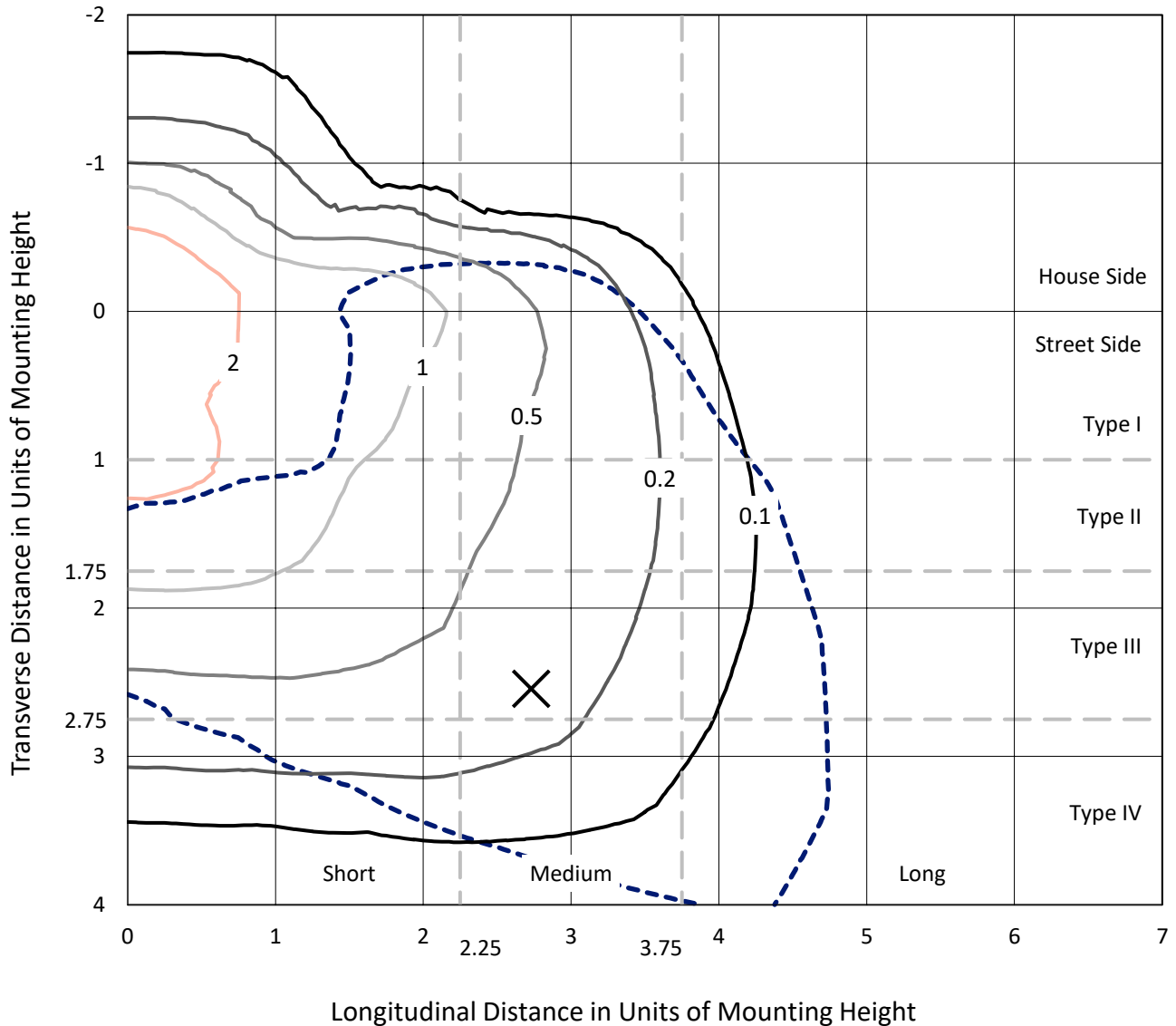
Lumens per Lamp: N/A
Luminaire Lumens: 5940.2 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

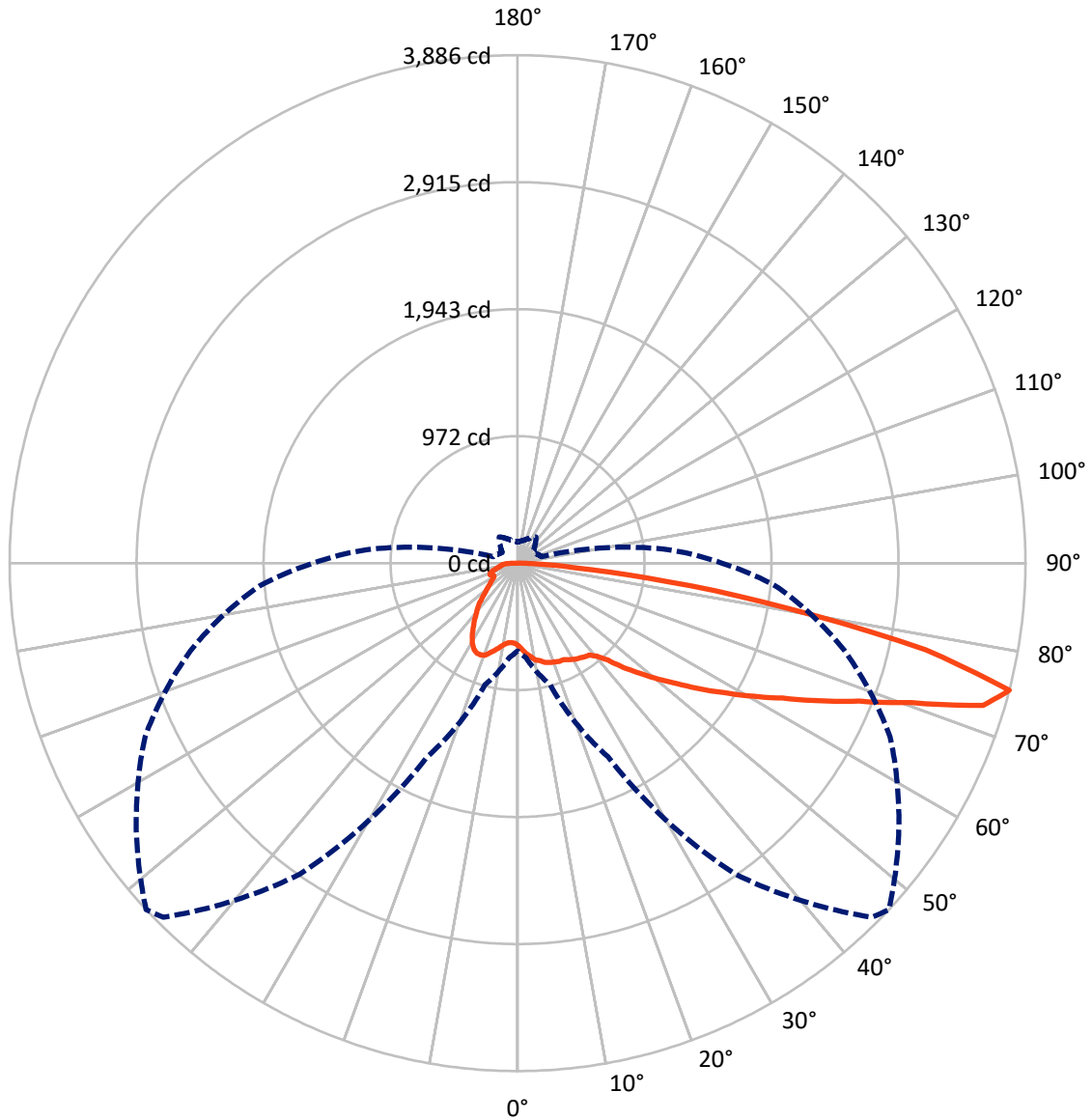
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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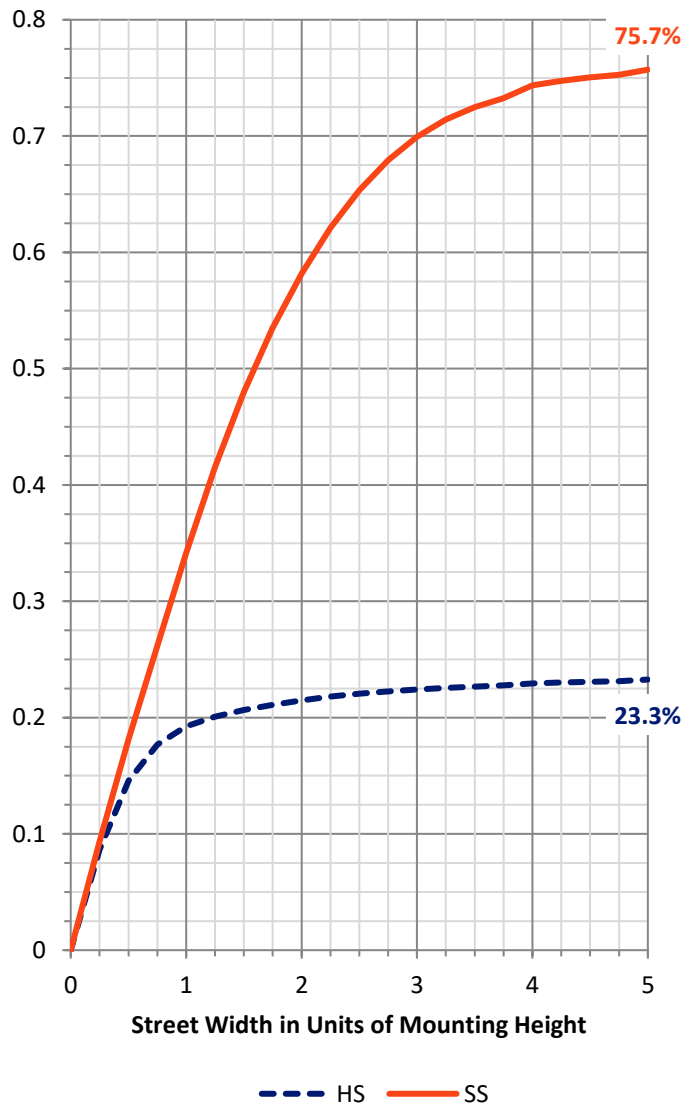
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.6	0.0	1420.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4519.6	0.0	4519.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	5940.2	0.0	5940.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.1
10°-20°	211.7	3.6
20°-30°	362.7	6.1
30°-40°	507.5	8.5
40°-50°	707.5	11.9
50°-60°	1057.6	17.8
60°-70°	1524.8	25.7
70°-80°	1297.9	21.8
80°-90°	206.8	3.5
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°	5940.2	100.0
0°-180°	5940.2	100.0



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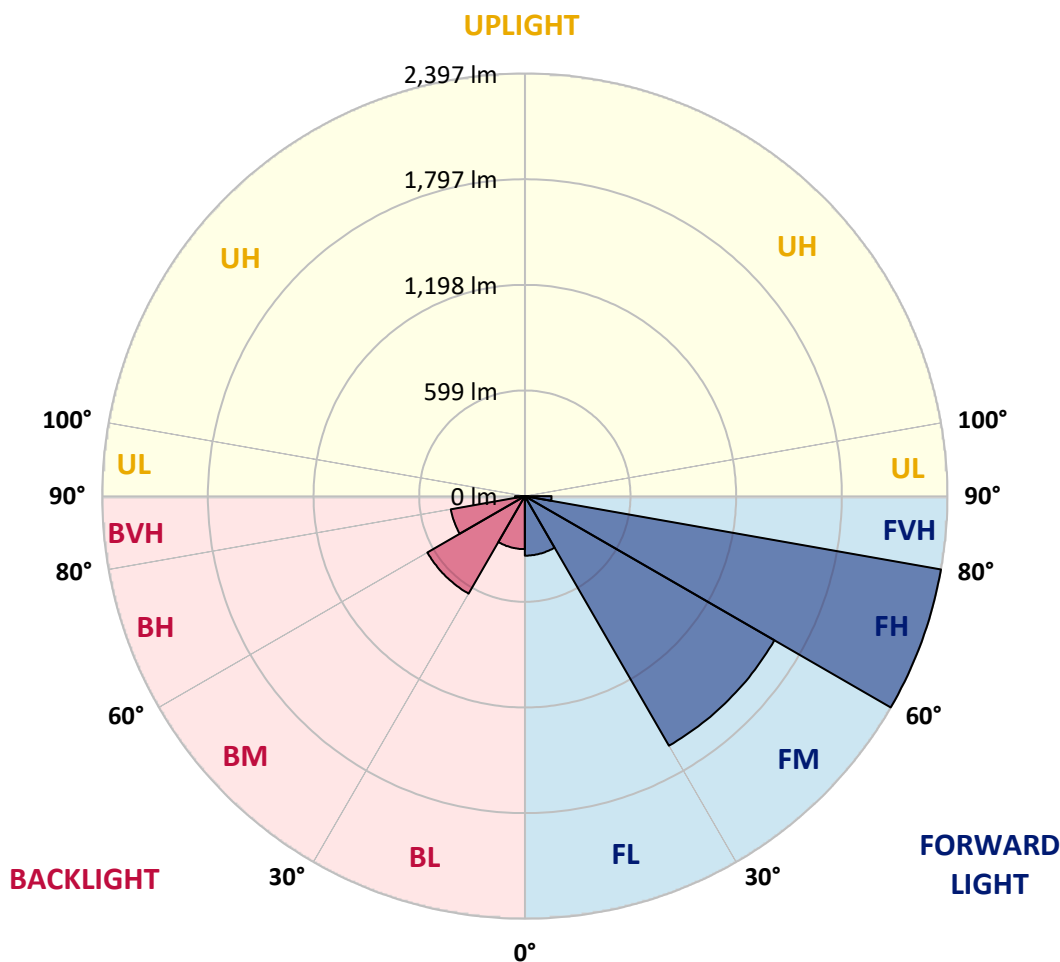
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.5	5.7			
FM (30°-60°)	1634.1	27.5			
FH (60°-80°)	2396.5	40.3			G2/5000
FVH (80°-90°)	151.5	2.6			G2/225
BL (0°-30°)	300.7	5.1	B1/500		
BM (30°-60°)	638.5	10.7	B1/1000		
BH (60°-80°)	426.2	7.2	B1/500		G1/500
BVH (80°-90°)	55.3	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	676.2	678.4	678.4	674.1	669.7	661.1	661.1	652.4	648.1	637.2	632.9
5°	739.1	732.6	726.1	723.9	713.1	697.9	695.7	687.1	663.2	652.4	637.2
7.5°	784.6	782.4	780.3	771.6	752.1	728.3	721.8	708.7	684.9	663.2	645.9
10°	821.5	830.1	821.5	801.9	782.4	756.4	754.3	730.4	708.7	682.7	661.1
12.5°	862.6	864.8	849.6	825.8	795.4	773.8	765.1	756.4	732.6	710.9	678.4
15°	890.8	886.5	875.6	843.1	808.5	786.8	788.9	778.1	752.1	736.9	702.2
17.5°	890.8	890.8	873.5	849.6	819.3	799.8	799.8	793.3	775.9	754.3	730.4
20°	873.5	873.5	862.6	849.6	815.0	810.6	806.3	801.9	801.9	782.4	747.8
22.5°	851.8	847.5	851.8	830.1	806.3	810.6	817.1	815.0	808.5	791.1	767.3
25°	830.1	832.3	836.6	821.5	799.8	819.3	817.1	828.0	823.6	810.6	791.1
27.5°	828.0	832.3	834.5	819.3	810.6	828.0	836.6	847.5	849.6	836.6	812.8
30°	860.5	858.3	856.1	836.6	830.1	845.3	854.0	869.1	882.1	854.0	834.5
32.5°	945.0	932.0	919.0	867.0	847.5	858.3	867.0	888.6	890.8	875.6	847.5
35°	1079.4	1070.7	1027.4	936.3	882.1	871.3	880.0	895.1	899.5	888.6	867.0
37.5°	1233.3	1228.9	1168.2	1057.7	953.7	901.7	893.0	914.7	932.0	908.2	877.8
40°	1385.0	1367.6	1324.3	1215.9	1044.7	947.2	936.3	947.2	953.7	936.3	916.8
42.5°	1521.5	1502.0	1491.2	1382.8	1163.9	1023.0	1014.4	988.3	1007.9	986.2	960.2
45°	1636.4	1632.1	1627.7	1534.5	1300.5	1146.6	1140.1	1072.9	1094.6	1077.2	1040.4
47.5°	1718.8	1738.3	1731.8	1679.8	1456.5	1278.8	1259.3	1172.6	1205.1	1187.8	1150.9
50°	1816.3	1827.1	1820.6	1786.0	1601.7	1430.5	1393.7	1304.8	1341.6	1339.5	1320.0
52.5°	1903.0	1935.5	1898.7	1896.5	1809.8	1595.2	1532.4	1447.8	1508.5	1532.4	1530.2
55°	2004.9	2030.9	2020.0	2015.7	1996.2	1755.6	1699.3	1597.4	1699.3	1733.9	1764.3
57.5°	2091.6	2089.4	2130.6	2180.4	2204.3	1939.8	1872.7	1753.5	1907.3	1946.4	2030.9
60°	2130.6	2167.4	2236.8	2362.5	2429.7	2137.1	2067.7	1972.4	2117.6	2147.9	2304.0
62.5°	2156.6	2189.1	2323.5	2535.9	2574.9	2338.7	2273.6	2178.3	2347.3	2369.0	2600.9
65°	2085.1	2115.4	2382.0	2600.9	2739.6	2555.4	2540.2	2440.5	2577.1	2590.1	2913.0
67.5°	2002.7	2035.2	2332.2	2683.3	2958.5	2843.7	2819.8	2700.6	2804.7	2789.5	3151.4
70°	1857.5	1900.8	2204.3	2754.8	3201.3	3246.8	3199.1	3030.1	3040.9	2897.9	3162.3
72.5°	1415.3	1443.5	1725.3	2470.9	3314.0	3806.0	3723.6	3385.5	3262.0	2919.5	2791.6
75°	671.9	723.9	962.3	1634.2	2904.4	3832.0	3886.2	3561.1	3144.9	2590.1	1978.9
77.5°	195.1	195.1	292.6	693.6	1820.6	3088.6	3190.5	3023.6	2594.4	1918.2	1040.4
80°	106.2	112.7	153.9	244.9	799.8	1948.5	2095.9	2004.9	1528.0	758.6	268.8
82.5°	60.7	62.9	101.9	147.4	364.1	1059.9	1146.6	1040.4	580.9	229.7	125.7
85°	34.7	36.8	58.5	97.5	216.7	390.1	424.8	368.5	234.1	153.9	62.9
87.5°	17.3	17.3	28.2	45.5	110.5	110.5	108.4	132.2	140.9	93.2	28.2
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°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	630.7	628.6	628.6	619.9	617.7	611.2	611.2	606.9	604.7	611.2	611.2
5°	632.9	622.1	619.9	611.2	613.4	609.0	617.7	613.4	611.2	611.2	609.0
7.5°	637.2	626.4	617.7	611.2	609.0	615.6	626.4	626.4	639.4	632.9	632.9
10°	648.1	641.6	630.7	626.4	626.4	632.9	645.9	654.6	665.4	665.4	658.9
12.5°	674.1	663.2	650.2	643.7	652.4	658.9	671.9	680.6	693.6	697.9	693.6
15°	693.6	682.7	678.4	674.1	680.6	689.2	700.1	708.7	723.9	728.3	726.1
17.5°	719.6	706.6	704.4	706.6	710.9	717.4	723.9	730.4	741.3	741.3	741.3
20°	732.6	728.3	726.1	732.6	741.3	749.9	745.6	741.3	739.1	743.4	741.3
22.5°	756.4	752.1	754.3	760.8	760.8	756.4	749.9	734.8	730.4	734.8	730.4
25°	778.1	773.8	773.8	769.4	767.3	752.1	739.1	726.1	710.9	717.4	715.3
27.5°	799.8	797.6	797.6	780.3	758.6	732.6	715.3	700.1	691.4	702.2	695.7
30°	825.8	828.0	817.1	775.9	723.9	695.7	676.2	674.1	671.9	678.4	676.2
32.5°	849.6	851.8	834.5	769.4	697.9	643.7	624.2	626.4	637.2	648.1	658.9
35°	862.6	873.5	851.8	747.8	645.9	585.2	563.5	583.0	602.5	617.7	628.6
37.5°	886.5	914.7	877.8	723.9	600.4	533.2	518.0	524.5	548.4	572.2	583.0
40°	921.2	953.7	884.3	678.4	539.7	481.2	472.5	474.7	483.3	498.5	509.3
42.5°	981.8	1016.5	890.8	619.9	479.0	448.7	424.8	418.3	411.8	411.8	409.6
45°	1070.7	1103.2	882.1	546.2	418.3	396.6	379.3	364.1	346.8	318.6	322.9
47.5°	1200.8	1226.8	888.6	481.2	362.0	344.6	331.6	314.3	288.3	257.9	255.8
50°	1398.0	1359.0	880.0	414.0	320.8	305.6	294.8	270.9	240.6	218.9	216.7
52.5°	1627.7	1549.7	871.3	357.6	286.1	273.1	264.4	238.4	210.2	199.4	197.2
55°	1905.2	1792.5	884.3	307.8	260.1	249.3	240.6	216.7	195.1	186.4	184.2
57.5°	2232.5	2054.7	955.8	268.8	231.9	227.6	225.4	205.9	186.4	179.9	177.7
60°	2540.2	2306.1	1003.5	240.6	205.9	210.2	214.6	205.9	184.2	179.9	179.9
62.5°	2798.2	2514.2	927.7	216.7	192.9	205.9	225.4	218.9	210.2	214.6	210.2
65°	3025.7	2585.7	693.6	203.7	186.4	216.7	249.3	247.1	227.6	231.9	229.7
67.5°	3064.7	2499.0	453.0	192.9	182.1	238.4	279.6	253.6	214.6	214.6	208.1
70°	2902.2	2267.1	303.4	182.1	179.9	238.4	286.1	238.4	201.6	201.6	192.9
72.5°	2382.0	1812.0	234.1	171.2	164.7	212.4	270.9	225.4	188.6	184.2	169.1
75°	1564.9	1168.2	190.7	162.6	143.1	186.4	244.9	208.1	179.9	166.9	160.4
77.5°	767.3	524.5	160.4	143.1	123.5	162.6	223.2	197.2	169.1	156.1	151.7
80°	210.2	188.6	134.4	125.7	104.0	140.9	210.2	188.6	158.2	145.2	138.7
82.5°	119.2	117.0	108.4	101.9	86.7	140.9	212.4	188.6	149.6	147.4	125.7
85°	65.0	69.4	78.0	75.9	67.2	125.7	201.6	164.7	121.4	101.9	101.9
87.5°	26.0	32.5	39.0	43.3	45.5	93.2	151.7	125.7	93.2	78.0	78.0
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)