

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: P675194

Luminaire Tested: **CCW-SA-2A-840-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675194
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-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T4FT distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

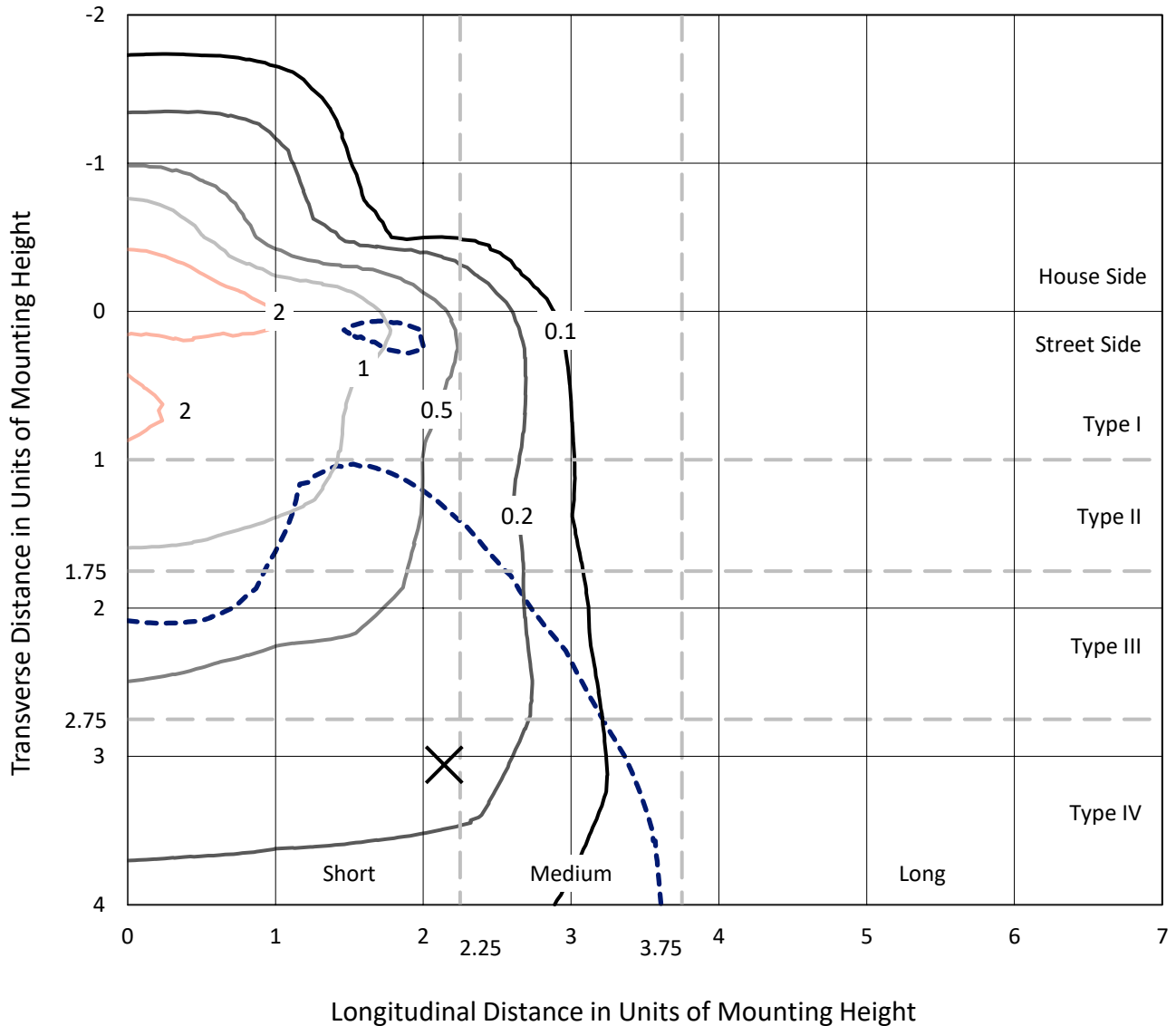
Lumens per Lamp: N/A
Luminaire Lumens: 4662.2 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

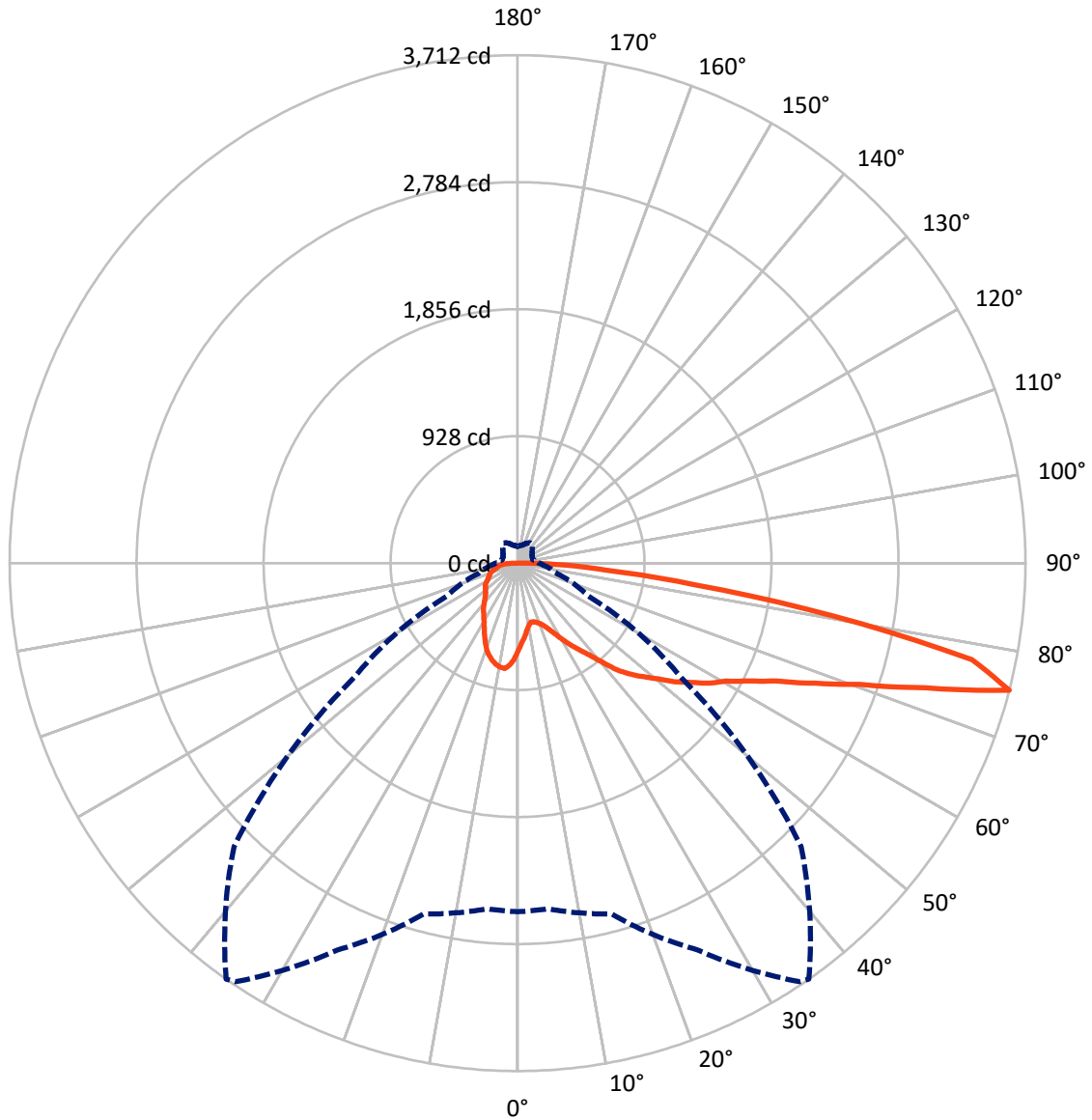
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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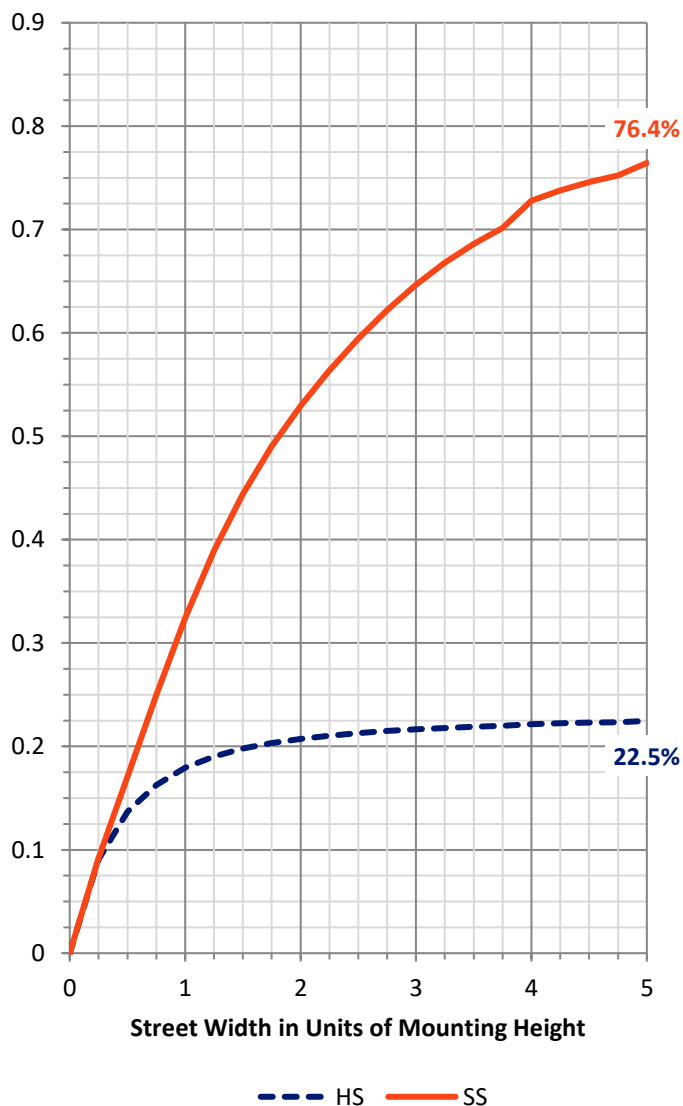
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.5	0.0	1071.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	3590.7	0.0	3590.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	4662.2	0.0	4662.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.3
10°-20°	176.6	3.8
20°-30°	293.1	6.3
30°-40°	434.5	9.3
40°-50°	626.5	13.4
50°-60°	861.5	18.5
60°-70°	1064.2	22.8
70°-80°	973.5	20.9
80°-90°	171.4	3.7
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°	4662.2	100.0
0°-180°	4662.2	100.0



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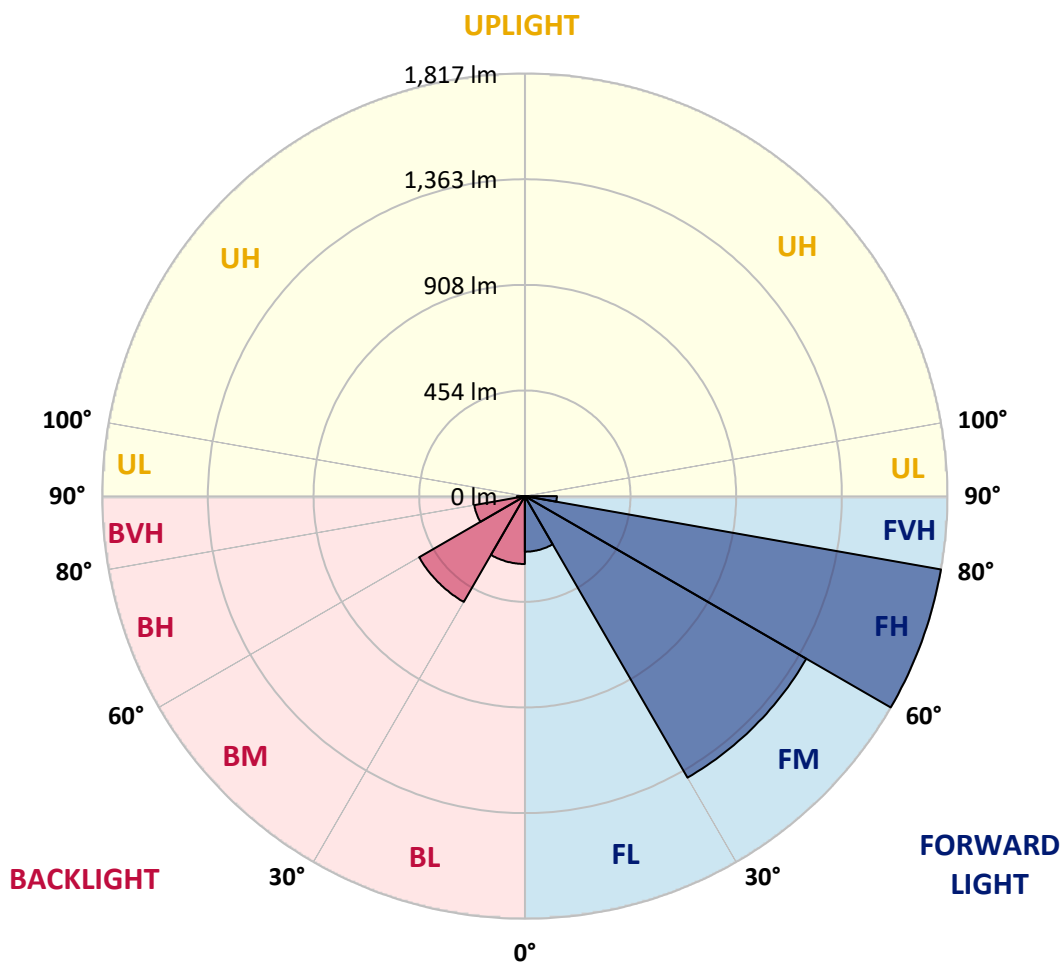
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.0	5.1			
FM (30°-60°)	1397.4	30.0			
FH (60°-80°)	1816.8	39.0			G2/5000
FVH (80°-90°)	137.5	3.0			G2/225
BL (0°-30°)	291.6	6.3	B1/500		
BM (30°-60°)	525.1	11.3	B1/1000		
BH (60°-80°)	220.9	4.7	B1/500		G1/500
BVH (80°-90°)	33.8	0.7			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°	34°	35°	45°	55°	65°	75°	85°
0°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	578.7	573.5	578.7	582.1	582.1	582.1	587.2	602.7	613.0	619.9	631.9
5°	518.6	520.3	523.7	532.3	537.4	540.9	549.5	568.4	583.8	606.1	631.9
7.5°	465.3	468.8	473.9	482.5	494.5	492.8	511.7	537.4	566.6	595.8	633.6
10°	437.9	444.7	446.4	448.2	460.2	460.2	485.9	515.1	551.2	589.0	633.6
12.5°	443.0	443.0	437.9	436.1	443.0	441.3	463.6	498.0	537.4	590.7	640.5
15°	458.5	458.5	448.2	437.9	448.2	444.7	463.6	491.1	537.4	592.4	654.2
17.5°	479.1	480.8	468.8	451.6	455.0	456.7	470.5	496.2	537.4	595.8	673.1
20°	520.3	511.7	492.8	465.3	477.3	472.2	492.8	515.1	547.7	609.6	700.6
22.5°	556.3	556.3	520.3	496.2	498.0	498.0	516.8	535.7	563.2	628.5	721.2
25°	614.7	611.3	566.6	530.6	534.0	535.7	546.0	568.4	589.0	638.8	746.9
27.5°	688.5	680.0	635.3	594.1	580.4	585.5	590.7	607.8	613.0	655.9	777.8
30°	767.5	755.5	717.7	652.5	645.6	647.3	638.8	649.1	642.2	683.4	808.7
32.5°	817.3	817.3	781.3	733.2	714.3	714.3	685.1	692.0	692.0	709.2	863.7
35°	860.3	856.8	832.8	796.7	784.7	777.8	748.6	758.9	741.8	758.9	941.0
37.5°	925.5	915.2	904.9	880.9	856.8	851.7	836.2	843.1	819.0	810.5	1028.5
40°	1001.1	995.9	985.6	975.3	951.3	949.5	932.4	939.2	913.5	880.9	1116.1
42.5°	1112.7	1097.2	1064.6	1056.0	1061.2	1068.0	1061.2	1049.1	1002.8	961.6	1210.5
45°	1224.3	1200.2	1138.4	1124.7	1164.2	1159.0	1188.2	1183.1	1107.5	1042.3	1310.1
47.5°	1296.4	1275.8	1226.0	1217.4	1234.6	1241.4	1329.0	1313.6	1193.4	1116.1	1406.3
50°	1347.9	1349.6	1284.4	1306.7	1329.0	1329.0	1438.9	1437.2	1298.1	1207.1	1531.6
52.5°	1423.5	1399.4	1371.9	1392.6	1423.5	1440.6	1576.3	1538.5	1363.4	1284.4	1672.4
55°	1463.0	1452.6	1428.6	1464.7	1529.9	1538.5	1682.7	1653.5	1437.2	1375.4	1816.7
57.5°	1478.4	1487.0	1526.5	1541.9	1632.9	1655.3	1778.9	1737.7	1505.9	1488.7	1928.3
60°	1547.1	1535.1	1588.3	1650.1	1737.7	1749.7	1899.1	1809.8	1572.8	1562.5	1964.3
62.5°	1686.2	1655.3	1684.5	1758.3	1880.2	1895.7	2026.2	1906.0	1602.0	1612.3	1962.6
65°	1888.8	1866.5	1823.5	1881.9	2053.6	2075.9	2175.5	1988.4	1593.4	1595.2	1823.5
67.5°	2127.5	2091.4	2046.8	2082.8	2292.3	2343.8	2357.5	2024.4	1533.4	1499.0	1483.6
70°	2336.9	2312.9	2283.7	2345.5	2637.4	2656.3	2584.2	2002.1	1366.8	1203.7	989.0
72.5°	2532.7	2520.7	2537.8	2769.6	3104.5	3116.5	2797.1	1861.3	1080.0	729.8	460.2
75°	2548.1	2536.1	2654.6	3119.9	3690.0	3712.3	2929.3	1459.5	570.1	297.1	194.0
77.5°	1725.7	1761.7	1983.2	2731.9	3389.5	3394.7	2395.3	678.2	235.2	175.1	135.6
80°	424.1	470.5	746.9	1413.2	2285.4	2342.1	1311.8	228.4	154.5	133.9	101.3
82.5°	154.5	168.3	303.9	638.8	1284.4	1306.7	458.5	123.6	111.6	103.0	73.8
85°	73.8	75.6	144.2	314.2	649.1	642.2	164.8	73.8	80.7	70.4	44.6
87.5°	30.9	30.9	63.5	146.0	286.8	278.2	53.2	34.3	46.4	41.2	22.3
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°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	640.5	643.9	657.6	667.9	678.2	686.8	700.6	700.6	709.2	709.2	709.2
5°	638.8	657.6	680.0	704.0	719.5	734.9	748.6	750.4	755.5	762.4	764.1
7.5°	645.6	664.5	700.6	734.9	753.8	760.7	777.8	772.7	772.7	772.7	777.8
10°	659.4	680.0	729.8	760.7	774.4	776.1	771.0	767.5	757.2	753.8	748.6
12.5°	669.7	705.7	755.5	779.6	774.4	769.3	757.2	740.1	728.0	724.6	724.6
15°	695.4	731.5	777.8	786.4	777.8	750.4	734.9	716.0	705.7	690.3	697.1
17.5°	717.7	758.9	800.2	789.9	772.7	729.8	707.4	680.0	666.2	649.1	649.1
20°	746.9	784.7	820.8	793.3	755.5	709.2	673.1	638.8	619.9	602.7	606.1
22.5°	779.6	813.9	832.8	779.6	729.8	676.5	626.7	594.1	570.1	559.8	563.2
25°	805.3	843.1	839.7	757.2	698.9	635.3	580.4	549.5	544.3	534.0	534.0
27.5°	837.9	877.4	834.5	729.8	647.3	570.1	535.7	523.7	523.7	518.6	522.0
30°	880.9	908.3	822.5	690.3	582.1	511.7	494.5	501.4	513.4	508.3	510.0
32.5°	951.3	947.8	812.2	645.6	513.4	455.0	467.0	480.8	491.1	496.2	499.7
35°	1019.9	997.6	800.2	585.5	449.9	427.6	437.9	453.3	472.2	477.3	479.1
37.5°	1088.6	1049.1	779.6	511.7	410.4	403.5	413.8	422.4	437.9	441.3	444.7
40°	1160.7	1083.5	743.5	439.6	377.8	377.8	384.6	386.3	394.9	400.1	403.5
42.5°	1224.3	1116.1	678.2	372.6	343.4	355.4	357.2	353.7	346.8	350.3	352.0
45°	1301.5	1152.2	602.7	324.5	317.7	333.1	336.5	322.8	310.8	303.9	300.5
47.5°	1377.1	1189.9	537.4	285.0	293.6	317.7	317.7	302.2	281.6	264.4	257.6
50°	1445.8	1227.7	484.2	261.0	269.6	305.6	309.1	279.9	257.6	237.0	233.5
52.5°	1560.8	1291.2	429.3	242.1	255.8	297.1	295.3	269.6	240.4	218.1	216.4
55°	1662.1	1354.8	357.2	223.2	242.1	285.0	290.2	259.3	219.8	199.2	195.7
57.5°	1736.0	1370.2	285.0	204.3	228.4	271.3	278.2	238.7	206.0	188.9	187.2
60°	1749.7	1310.1	231.8	188.9	209.5	252.4	257.6	226.7	195.7	182.0	178.6
62.5°	1686.2	1195.1	197.5	175.1	194.0	233.5	243.8	212.9	185.4	173.4	171.7
65°	1541.9	1026.8	173.4	163.1	183.7	219.8	231.8	202.6	176.9	166.6	164.8
67.5°	1220.8	788.1	154.5	154.5	170.0	206.0	223.2	195.7	168.3	161.4	159.7
70°	798.4	473.9	140.8	142.5	159.7	194.0	212.9	187.2	158.0	156.3	152.8
72.5°	343.4	218.1	125.3	130.5	144.2	173.4	197.5	175.1	146.0	140.8	135.6
75°	158.0	132.2	113.3	116.8	128.8	152.8	178.6	161.4	135.6	127.1	121.9
77.5°	111.6	96.2	94.4	101.3	109.9	132.2	158.0	151.1	125.3	118.5	115.0
80°	82.4	73.8	79.0	85.9	91.0	121.9	149.4	139.1	115.0	104.7	99.6
82.5°	58.4	54.9	61.8	68.7	73.8	106.5	137.4	121.9	96.2	87.6	79.0
85°	34.3	36.1	42.9	46.4	51.5	79.0	115.0	97.9	73.8	56.7	54.9
87.5°	15.5	15.5	20.6	22.3	25.8	46.4	77.3	61.8	46.4	36.1	34.3
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)