

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: P674888

Luminaire Tested: **CCW-SA-2E-830-U-T2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674888
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

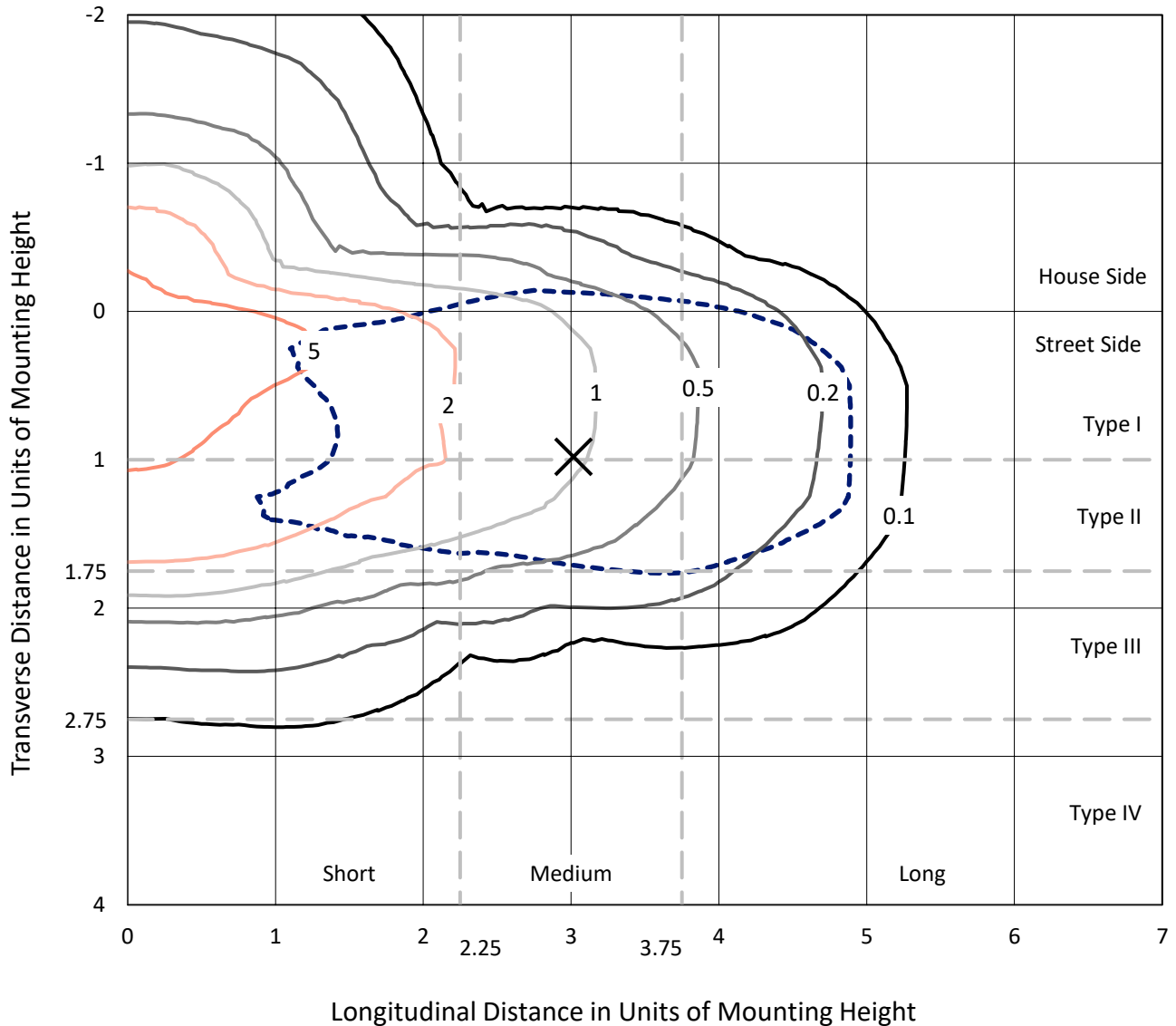
Lumens per Lamp: N/A
Luminaire Lumens: 10837.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
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

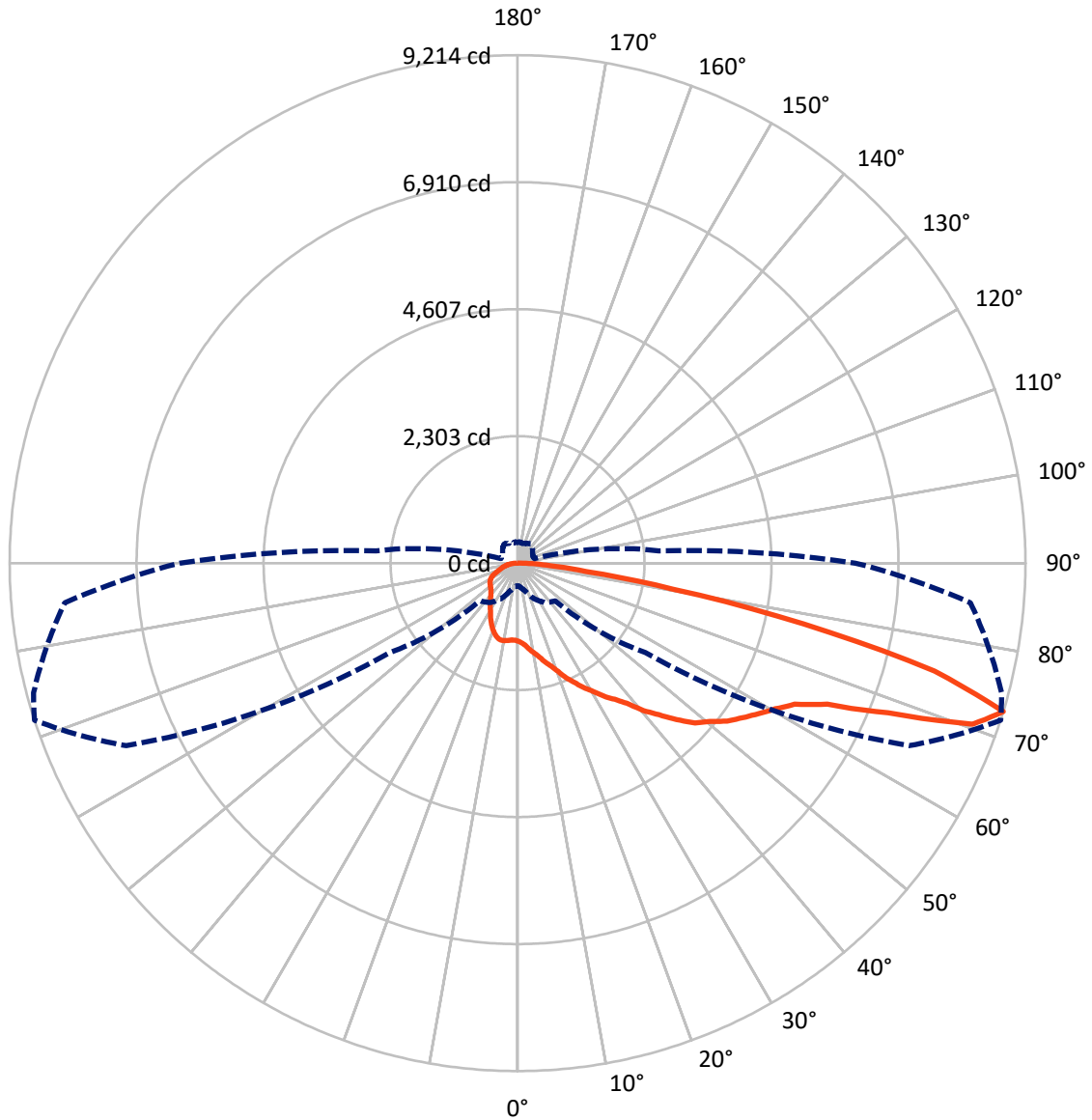
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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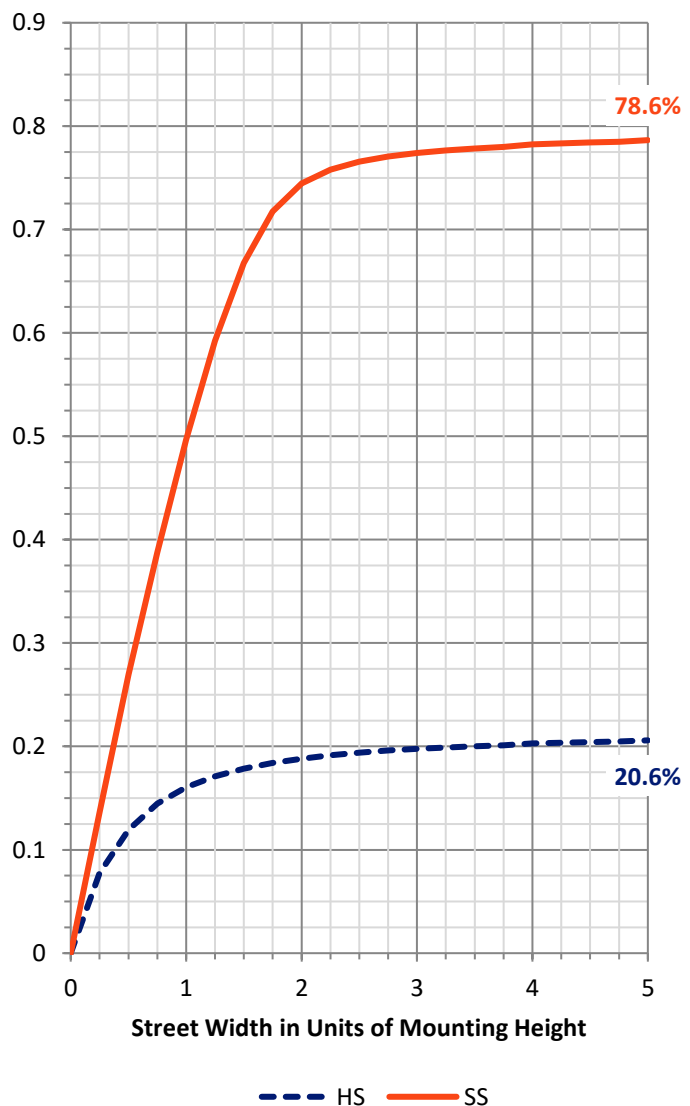
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2280.8	0.0	2280.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	8556.7	0.0	8556.7
	% Fixture	79.0	0.0	79.0
Total	Lumens	10837.5	0.0	10837.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.3
10°-20°	434.9	4.0
20°-30°	752.6	6.9
30°-40°	1111.6	10.3
40°-50°	1653.0	15.3
50°-60°	2266.2	20.9
60°-70°	2458.2	22.7
70°-80°	1733.0	16.0
80°-90°	288.0	2.7
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°	10837.5	100.0
0°-180°	10837.5	100.0



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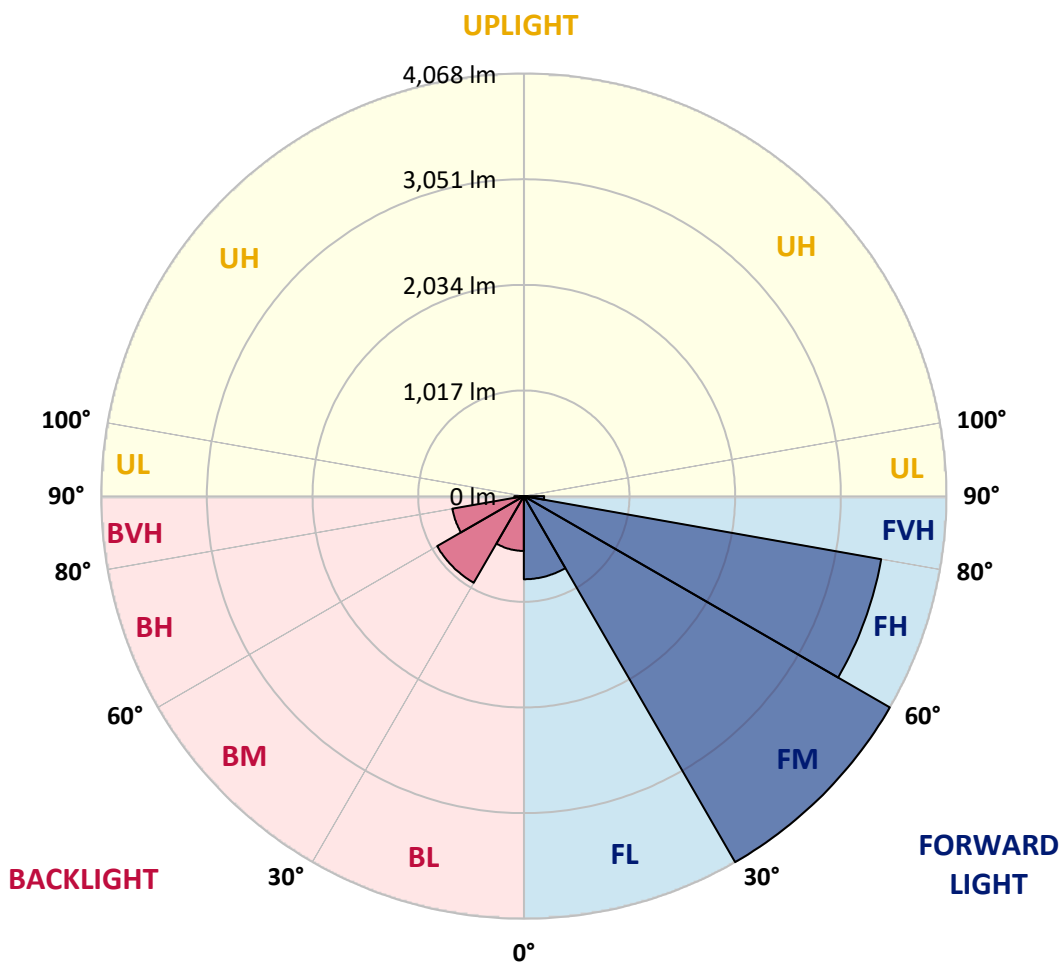
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.3	7.4			
FM (30°-60°)	4067.5	37.5			
FH (60°-80°)	3492.6	32.2			G2/5000
FVH (80°-90°)	196.3	1.8			G2/225
BL (0°-30°)	527.2	4.9	B2/1000		
BM (30°-60°)	963.3	8.9	B1/1000		
BH (60°-80°)	698.6	6.4	B2/1000		G2/1000
BVH (80°-90°)	91.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1527.7	1527.7	1515.7	1511.7	1511.7	1479.7	1483.7	1463.7	1447.7	1447.7	1431.7
5°	1607.6	1599.6	1599.6	1599.6	1579.6	1567.6	1563.6	1527.7	1499.7	1503.7	1455.7
7.5°	1627.6	1631.6	1635.6	1655.6	1643.6	1651.6	1643.6	1603.6	1583.6	1563.6	1519.7
10°	1639.6	1647.6	1647.6	1675.6	1675.6	1695.6	1707.6	1691.6	1655.6	1635.6	1563.6
12.5°	1667.6	1655.6	1671.6	1691.6	1711.6	1747.6	1783.6	1767.6	1743.6	1719.6	1639.6
15°	1667.6	1671.6	1683.6	1715.6	1747.6	1783.6	1847.6	1871.6	1859.6	1815.6	1731.6
17.5°	1619.6	1607.6	1663.6	1723.6	1783.6	1827.6	1911.6	1967.6	1959.6	1943.6	1815.6
20°	1623.6	1635.6	1655.6	1707.6	1803.6	1883.6	1987.6	2079.5	2099.5	2091.5	1927.6
22.5°	1695.6	1699.6	1719.6	1743.6	1819.6	1923.6	2079.5	2227.5	2263.5	2243.5	2051.5
25°	1767.6	1799.6	1799.6	1815.6	1843.6	1951.6	2139.5	2347.5	2399.5	2403.5	2179.5
27.5°	1883.6	1891.6	1915.6	1923.6	1947.6	2011.5	2207.5	2435.4	2555.4	2539.4	2295.5
30°	2019.5	2023.5	2039.5	2031.5	2035.5	2115.5	2271.5	2535.4	2699.4	2703.4	2419.5
32.5°	2179.5	2211.5	2219.5	2167.5	2175.5	2195.5	2371.5	2655.4	2879.3	2851.4	2527.4
35°	2415.5	2427.5	2403.5	2379.5	2319.5	2307.5	2475.4	2775.4	3035.3	3067.3	2687.4
37.5°	2707.4	2739.4	2707.4	2579.4	2515.4	2467.4	2603.4	2907.3	3223.3	3331.2	2847.4
40°	2979.3	2975.3	2943.3	2827.4	2715.4	2679.4	2787.4	3091.3	3515.2	3619.2	3079.3
42.5°	3199.3	3187.3	3167.3	3079.3	2975.3	2915.3	2999.3	3283.3	3759.1	3959.1	3347.2
45°	3391.2	3375.2	3379.2	3279.3	3179.3	3211.3	3211.3	3503.2	4047.1	4295.0	3655.2
47.5°	3571.2	3579.2	3567.2	3491.2	3415.2	3499.2	3455.2	3755.2	4331.0	4607.0	3915.1
50°	3779.1	3795.1	3755.2	3707.2	3639.2	3723.2	3667.2	3991.1	4515.0	4890.9	4227.0
52.5°	3975.1	3991.1	4027.1	3967.1	3899.1	3967.1	3839.1	4211.0	4758.9	5166.8	4467.0
55°	4023.1	4015.1	4215.0	4279.0	4315.0	4111.1	3991.1	4399.0	4950.9	5342.8	4738.9
57.5°	3803.1	3823.1	4095.1	4279.0	4662.9	4487.0	4163.1	4619.0	5150.8	5574.7	4990.9
60°	3255.3	3267.3	3607.2	4043.1	4603.0	4838.9	4627.0	4902.9	5370.8	5770.7	5274.8
62.5°	2175.5	2267.5	2691.4	3375.2	4179.1	4934.9	5366.8	5382.8	5638.7	6018.6	5662.7
65°	1147.7	1191.7	1523.7	2075.5	3167.3	4603.0	6062.6	6334.6	6174.6	6474.5	6222.6
67.5°	751.8	767.8	947.8	1259.7	1827.6	3359.2	6142.6	7986.2	7250.4	7342.3	7118.4
70°	559.9	567.9	699.8	931.8	1131.7	1795.6	5034.9	8758.0	8754.0	8510.1	8182.1
72.5°	411.9	423.9	515.9	711.8	871.8	967.8	2831.4	7834.2	9213.9	9089.9	8246.1
75°	323.9	331.9	379.9	551.9	703.8	635.9	1435.7	5802.7	7814.2	8410.1	7546.3
77.5°	263.9	271.9	299.9	399.9	563.9	491.9	687.8	3743.2	5298.8	6054.6	5774.7
80°	220.0	220.0	239.9	283.9	435.9	371.9	407.9	2103.5	2855.4	3151.3	2619.4
82.5°	188.0	184.0	200.0	208.0	323.9	267.9	263.9	951.8	1255.7	1331.7	983.8
85°	120.0	124.0	188.0	180.0	212.0	184.0	148.0	451.9	591.9	603.9	367.9
87.5°	48.0	48.0	80.0	100.0	120.0	112.0	72.0	204.0	259.9	259.9	104.0
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°	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7	1415.7
2.5°	1427.7	1411.7	1399.7	1391.7	1371.7	1351.7	1355.7	1351.7	1335.7	1327.7	1327.7
5°	1443.7	1427.7	1407.7	1375.7	1355.7	1331.7	1339.7	1323.7	1307.7	1319.7	1299.7
7.5°	1483.7	1455.7	1427.7	1379.7	1347.7	1311.7	1295.7	1287.7	1275.7	1267.7	1267.7
10°	1539.7	1499.7	1447.7	1375.7	1323.7	1267.7	1259.7	1243.7	1231.7	1231.7	1227.7
12.5°	1595.6	1551.6	1463.7	1347.7	1259.7	1219.7	1215.7	1219.7	1227.7	1231.7	1235.7
15°	1667.6	1595.6	1459.7	1295.7	1207.7	1191.7	1211.7	1227.7	1243.7	1259.7	1255.7
17.5°	1735.6	1651.6	1423.7	1231.7	1163.7	1167.7	1203.7	1235.7	1267.7	1283.7	1287.7
20°	1827.6	1703.6	1371.7	1155.7	1119.7	1155.7	1203.7	1243.7	1279.7	1299.7	1303.7
22.5°	1931.6	1763.6	1303.7	1087.8	1083.8	1119.7	1167.7	1227.7	1267.7	1303.7	1299.7
25°	2023.5	1803.6	1215.7	1031.8	1039.8	1063.8	1119.7	1183.7	1223.7	1263.7	1251.7
27.5°	2083.5	1811.6	1123.7	991.8	991.8	1015.8	1067.8	1107.7	1143.7	1175.7	1179.7
30°	2151.5	1795.6	1019.8	939.8	939.8	971.8	991.8	1015.8	1035.8	1043.8	1051.8
32.5°	2231.5	1759.6	955.8	899.8	899.8	923.8	935.8	927.8	923.8	903.8	915.8
35°	2307.5	1707.6	883.8	847.8	863.8	875.8	871.8	847.8	823.8	787.8	775.8
37.5°	2399.5	1655.6	819.8	791.8	819.8	823.8	823.8	795.8	763.8	719.8	719.8
40°	2539.4	1615.6	767.8	755.8	783.8	779.8	759.8	739.8	751.8	727.8	727.8
42.5°	2687.4	1599.6	719.8	723.8	735.8	739.8	719.8	695.8	743.8	715.8	719.8
45°	2871.4	1611.6	687.8	683.8	711.8	707.8	695.8	675.8	691.8	619.9	599.9
47.5°	3043.3	1635.6	671.8	655.9	687.8	695.8	679.8	635.9	611.9	567.9	559.9
50°	3199.3	1687.6	655.9	623.9	655.9	671.8	643.9	595.9	567.9	539.9	539.9
52.5°	3347.2	1763.6	647.9	587.9	615.9	635.9	619.9	571.9	539.9	527.9	515.9
55°	3499.2	1831.6	635.9	563.9	571.9	611.9	607.9	543.9	511.9	511.9	507.9
57.5°	3715.2	1923.6	619.9	523.9	539.9	583.9	583.9	531.9	495.9	499.9	503.9
60°	3935.1	2031.5	603.9	483.9	495.9	555.9	563.9	515.9	483.9	487.9	483.9
62.5°	4287.0	2231.5	571.9	435.9	459.9	519.9	539.9	495.9	467.9	475.9	475.9
65°	4818.9	2575.4	503.9	395.9	423.9	487.9	515.9	475.9	443.9	467.9	459.9
67.5°	5674.7	3047.3	423.9	363.9	399.9	455.9	487.9	451.9	423.9	459.9	447.9
70°	6442.5	3279.3	363.9	335.9	363.9	419.9	455.9	427.9	399.9	435.9	419.9
72.5°	6130.6	2571.4	315.9	303.9	331.9	379.9	423.9	395.9	367.9	387.9	371.9
75°	5290.8	2047.5	275.9	271.9	295.9	343.9	387.9	367.9	339.9	347.9	339.9
77.5°	4011.1	1691.6	235.9	231.9	251.9	307.9	347.9	331.9	303.9	299.9	299.9
80°	1791.6	831.8	196.0	196.0	208.0	263.9	295.9	287.9	259.9	255.9	251.9
82.5°	587.9	315.9	160.0	152.0	168.0	220.0	263.9	255.9	227.9	220.0	212.0
85°	235.9	152.0	116.0	116.0	132.0	184.0	235.9	220.0	184.0	164.0	164.0
87.5°	80.0	64.0	60.0	60.0	84.0	124.0	176.0	148.0	132.0	116.0	120.0
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)