

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: P675243

Luminaire Tested: **CCW-SA-2E-727-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675243
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

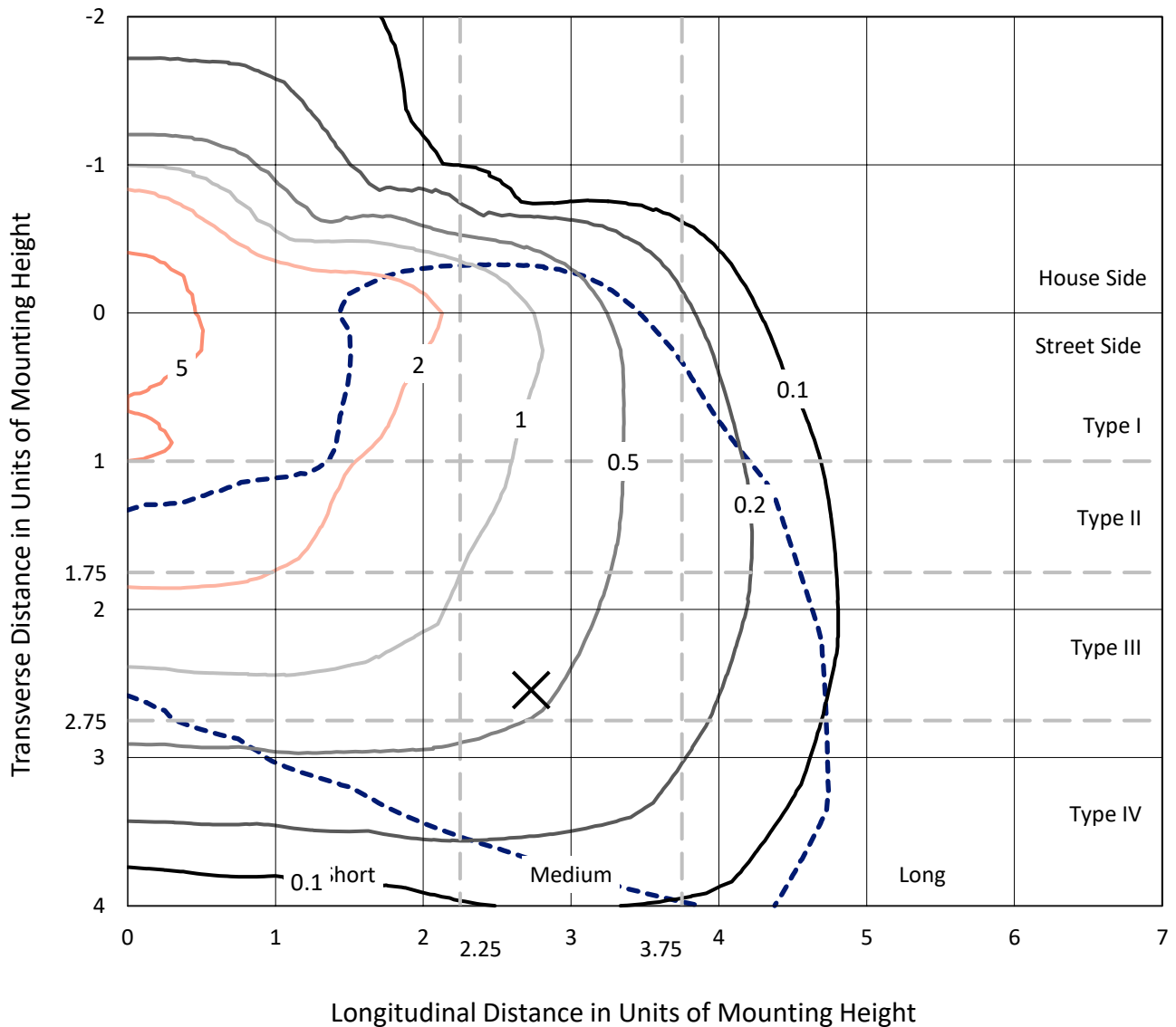
Lumens per Lamp: N/A
Luminaire Lumens: 11535.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
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

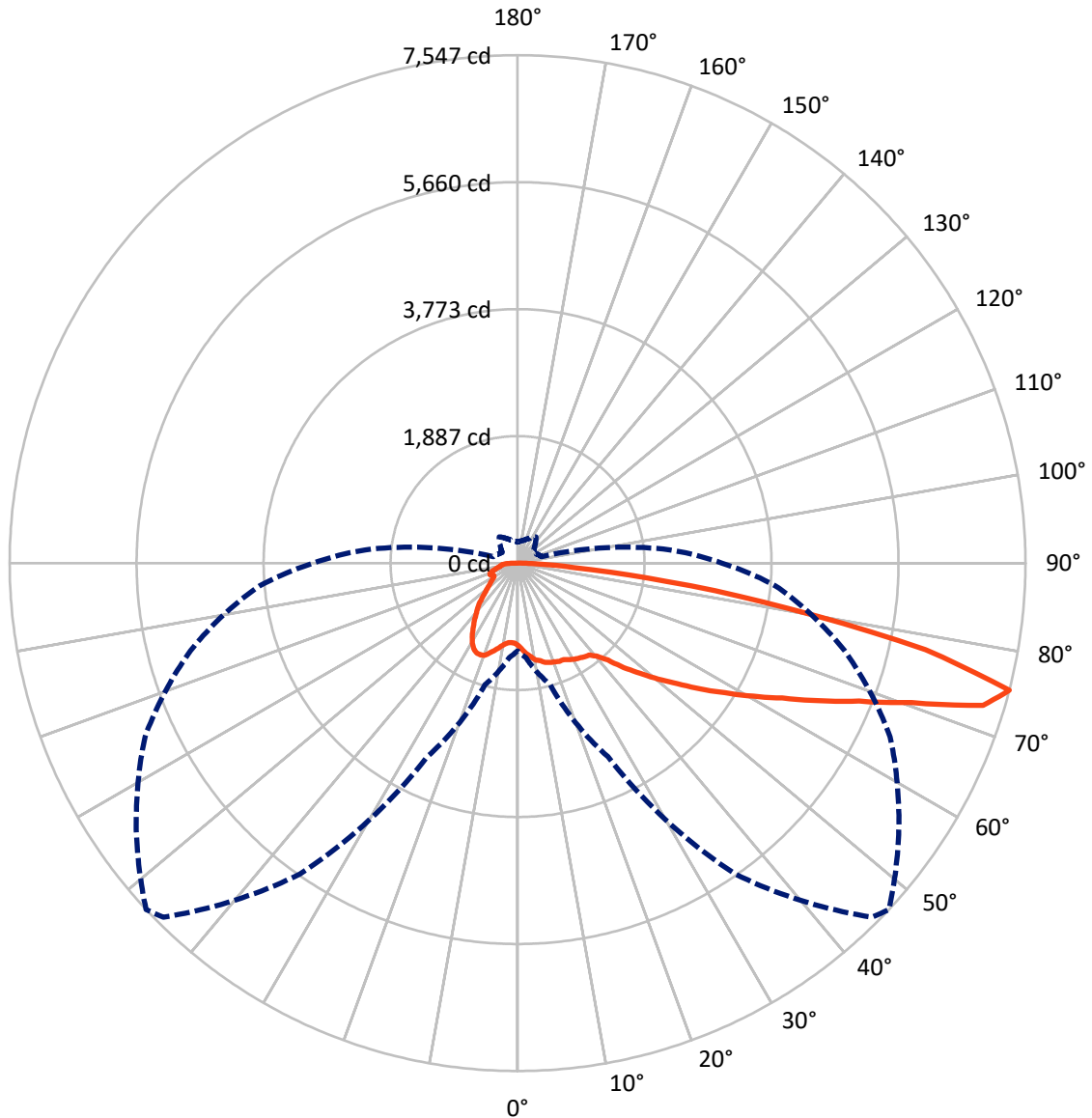
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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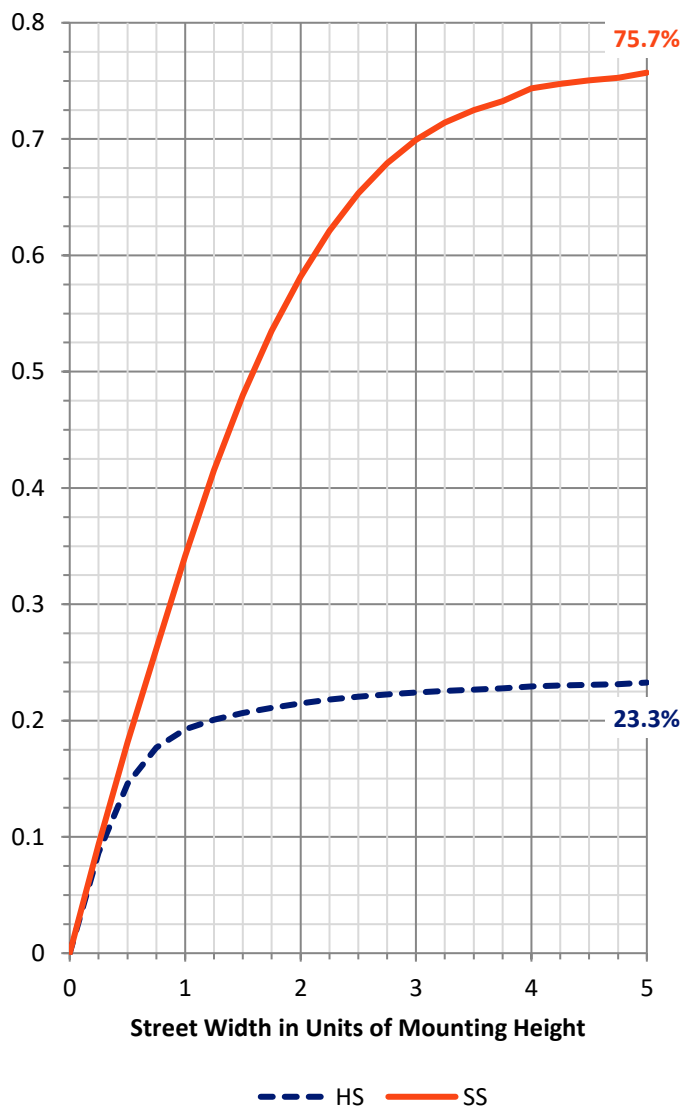
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2758.7	0.0	2758.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8776.9	0.0	8776.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	11535.7	0.0	11535.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.1
10°-20°	411.2	3.6
20°-30°	704.3	6.1
30°-40°	985.5	8.5
40°-50°	1374.0	11.9
50°-60°	2053.8	17.8
60°-70°	2961.1	25.7
70°-80°	2520.5	21.8
80°-90°	401.5	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°	11535.7	100.0
0°-180°	11535.7	100.0



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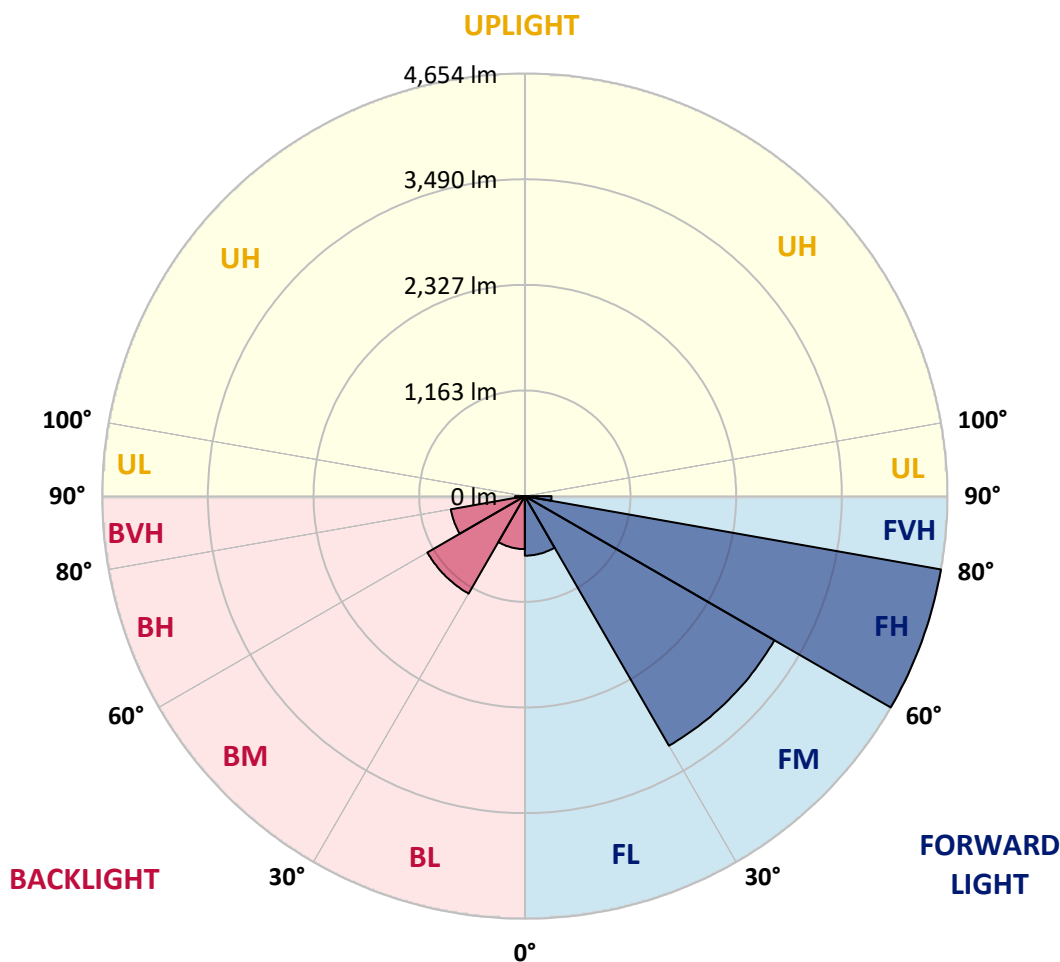
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.4	5.7			
FM (30°-60°)	3173.4	27.5			
FH (60°-80°)	4654.0	40.3			G2/5000
FVH (80°-90°)	294.2	2.6			G3/500
BL (0°-30°)	583.9	5.1	B2/1000		
BM (30°-60°)	1239.9	10.7	B2/2500		
BH (60°-80°)	827.6	7.2	B2/1000		G2/1000
BVH (80°-90°)	107.3	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1313.2	1317.4	1317.4	1309.0	1300.6	1283.8	1283.8	1266.9	1258.5	1237.5	1229.1
5°	1435.3	1422.7	1410.0	1405.8	1384.8	1355.3	1351.1	1334.3	1288.0	1266.9	1237.5
7.5°	1523.7	1519.5	1515.3	1498.4	1460.6	1414.3	1401.6	1376.4	1330.1	1288.0	1254.3
10°	1595.2	1612.1	1595.2	1557.4	1519.5	1469.0	1464.8	1418.5	1376.4	1325.9	1283.8
12.5°	1675.2	1679.4	1650.0	1603.7	1544.7	1502.6	1485.8	1469.0	1422.7	1380.6	1317.4
15°	1729.9	1721.5	1700.5	1637.3	1570.0	1527.9	1532.1	1511.1	1460.6	1431.1	1363.7
17.5°	1729.9	1729.9	1696.3	1650.0	1591.0	1553.2	1553.2	1540.5	1506.9	1464.8	1418.5
20°	1696.3	1696.3	1675.2	1650.0	1582.6	1574.2	1565.8	1557.4	1557.4	1519.5	1452.1
22.5°	1654.2	1645.8	1654.2	1612.1	1565.8	1574.2	1586.8	1582.6	1570.0	1536.3	1490.0
25°	1612.1	1616.3	1624.7	1595.2	1553.2	1591.0	1586.8	1607.9	1599.5	1574.2	1536.3
27.5°	1607.9	1616.3	1620.5	1591.0	1574.2	1607.9	1624.7	1645.8	1650.0	1624.7	1578.4
30°	1671.0	1666.8	1662.6	1624.7	1612.1	1641.5	1658.4	1687.8	1713.1	1658.4	1620.5
32.5°	1835.2	1809.9	1784.7	1683.6	1645.8	1666.8	1683.6	1725.7	1729.9	1700.5	1645.8
35°	2096.1	2079.3	1995.1	1818.3	1713.1	1692.1	1708.9	1738.4	1746.8	1725.7	1683.6
37.5°	2395.0	2386.6	2268.7	2054.0	1852.0	1751.0	1734.1	1776.2	1809.9	1763.6	1704.7
40°	2689.6	2655.9	2571.8	2361.3	2028.8	1839.4	1818.3	1839.4	1852.0	1818.3	1780.4
42.5°	2954.8	2916.9	2895.9	2685.4	2260.3	1986.7	1969.9	1919.3	1957.2	1915.1	1864.6
45°	3177.9	3169.4	3161.0	2980.0	2525.5	2226.6	2214.0	2083.5	2125.6	2091.9	2020.4
47.5°	3337.8	3375.7	3363.1	3262.0	2828.5	2483.4	2445.5	2277.1	2340.3	2306.6	2235.0
50°	3527.2	3548.3	3535.6	3468.3	3110.5	2778.0	2706.4	2533.9	2605.4	2601.2	2563.3
52.5°	3695.6	3758.7	3687.2	3683.0	3514.6	3097.9	2975.8	2811.7	2929.5	2975.8	2971.6
55°	3893.4	3943.9	3922.9	3914.5	3876.6	3409.4	3299.9	3102.1	3299.9	3367.3	3426.2
57.5°	4061.8	4057.6	4137.5	4234.3	4280.6	3767.1	3636.7	3405.2	3704.0	3779.8	3943.9
60°	4137.5	4209.1	4343.8	4587.9	4718.4	4150.2	4015.5	3830.3	4112.3	4171.2	4474.3
62.5°	4188.0	4251.2	4512.1	4924.6	5000.4	4541.6	4415.3	4230.1	4558.4	4600.5	5050.9
65°	4049.1	4108.1	4625.8	5050.9	5320.3	4962.5	4933.1	4739.4	5004.6	5029.9	5657.0
67.5°	3889.2	3952.3	4529.0	5210.9	5745.4	5522.3	5476.0	5244.5	5446.6	5417.1	6120.0
70°	3607.2	3691.4	4280.6	5349.8	6216.8	6305.2	6212.6	5884.3	5905.4	5627.6	6141.1
72.5°	2748.5	2803.3	3350.4	4798.4	6435.7	7391.2	7231.2	6574.6	6334.7	5669.6	5421.3
75°	1304.8	1405.8	1868.8	3173.7	5640.2	7441.7	7546.9	6915.5	6107.4	5029.9	3842.9
77.5°	378.8	378.8	568.2	1346.9	3535.6	5998.0	6195.8	5871.7	5038.3	3725.0	2020.4
80°	206.2	218.9	298.8	475.6	1553.2	3784.0	4070.2	3893.4	2967.4	1473.2	521.9
82.5°	117.9	122.1	197.8	286.2	707.1	2058.2	2226.6	2020.4	1128.0	446.2	244.1
85°	67.3	71.6	113.6	189.4	420.9	757.6	825.0	715.5	454.6	298.8	122.1
87.5°	33.7	33.7	54.7	88.4	214.7	214.7	210.5	256.8	273.6	181.0	54.7
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°	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1224.8	1220.6	1220.6	1203.8	1199.6	1187.0	1187.0	1178.5	1174.3	1187.0	1187.0
5°	1229.1	1208.0	1203.8	1187.0	1191.2	1182.8	1199.6	1191.2	1187.0	1187.0	1182.8
7.5°	1237.5	1216.4	1199.6	1187.0	1182.8	1195.4	1216.4	1216.4	1241.7	1229.1	1229.1
10°	1258.5	1245.9	1224.8	1216.4	1216.4	1229.1	1254.3	1271.1	1292.2	1292.2	1279.6
12.5°	1309.0	1288.0	1262.7	1250.1	1266.9	1279.6	1304.8	1321.7	1346.9	1355.3	1346.9
15°	1346.9	1325.9	1317.4	1309.0	1321.7	1338.5	1359.5	1376.4	1405.8	1414.3	1410.0
17.5°	1397.4	1372.2	1368.0	1372.2	1380.6	1393.2	1405.8	1418.5	1439.5	1439.5	1439.5
20°	1422.7	1414.3	1410.0	1422.7	1439.5	1456.3	1447.9	1439.5	1435.3	1443.7	1439.5
22.5°	1469.0	1460.6	1464.8	1477.4	1477.4	1469.0	1456.3	1426.9	1418.5	1426.9	1418.5
25°	1511.1	1502.6	1502.6	1494.2	1490.0	1460.6	1435.3	1410.0	1380.6	1393.2	1389.0
27.5°	1553.2	1548.9	1548.9	1515.3	1473.2	1422.7	1389.0	1359.5	1342.7	1363.7	1351.1
30°	1603.7	1607.9	1586.8	1506.9	1405.8	1351.1	1313.2	1309.0	1304.8	1317.4	1313.2
32.5°	1650.0	1654.2	1620.5	1494.2	1355.3	1250.1	1212.2	1216.4	1237.5	1258.5	1279.6
35°	1675.2	1696.3	1654.2	1452.1	1254.3	1136.5	1094.4	1132.2	1170.1	1199.6	1220.6
37.5°	1721.5	1776.2	1704.7	1405.8	1165.9	1035.4	1006.0	1018.6	1064.9	1111.2	1132.2
40°	1788.9	1852.0	1717.3	1317.4	1048.1	934.4	917.6	921.8	938.6	968.1	989.1
42.5°	1906.7	1974.1	1729.9	1203.8	930.2	871.3	825.0	812.4	799.7	799.7	795.5
45°	2079.3	2142.4	1713.1	1060.7	812.4	770.3	736.6	707.1	673.5	618.7	627.2
47.5°	2331.8	2382.3	1725.7	934.4	702.9	669.2	644.0	610.3	559.8	500.9	496.7
50°	2714.9	2639.1	1708.9	803.9	622.9	593.5	572.4	526.1	467.2	425.1	420.9
52.5°	3161.0	3009.5	1692.1	694.5	555.6	530.3	513.5	463.0	408.3	387.2	383.0
55°	3699.8	3480.9	1717.3	597.7	505.1	484.0	467.2	420.9	378.8	362.0	357.8
57.5°	4335.4	3990.2	1856.2	521.9	450.4	442.0	437.7	399.9	362.0	349.4	345.1
60°	4933.1	4478.5	1948.8	467.2	399.9	408.3	416.7	399.9	357.8	349.4	349.4
62.5°	5433.9	4882.5	1801.5	420.9	374.6	399.9	437.7	425.1	408.3	416.7	408.3
65°	5875.9	5021.4	1346.9	395.7	362.0	420.9	484.0	479.8	442.0	450.4	446.2
67.5°	5951.7	4853.1	879.7	374.6	353.6	463.0	543.0	492.5	416.7	416.7	404.1
70°	5636.0	4402.7	589.3	353.6	349.4	463.0	555.6	463.0	391.4	391.4	374.6
72.5°	4625.8	3518.8	454.6	332.5	319.9	412.5	526.1	437.7	366.2	357.8	328.3
75°	3039.0	2268.7	370.4	315.7	277.8	362.0	475.6	404.1	349.4	324.1	311.5
77.5°	1490.0	1018.6	311.5	277.8	239.9	315.7	433.5	383.0	328.3	303.1	294.6
80°	408.3	366.2	261.0	244.1	202.0	273.6	408.3	366.2	307.3	282.0	269.4
82.5°	231.5	227.3	210.5	197.8	168.4	273.6	412.5	366.2	290.4	286.2	244.1
85°	126.3	134.7	151.5	147.3	130.5	244.1	391.4	319.9	235.7	197.8	197.8
87.5°	50.5	63.1	75.8	84.2	88.4	181.0	294.6	244.1	181.0	151.5	151.5
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)