

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: P676815

Luminaire Tested: **CCW-SA-2D-722-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676815
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-722-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

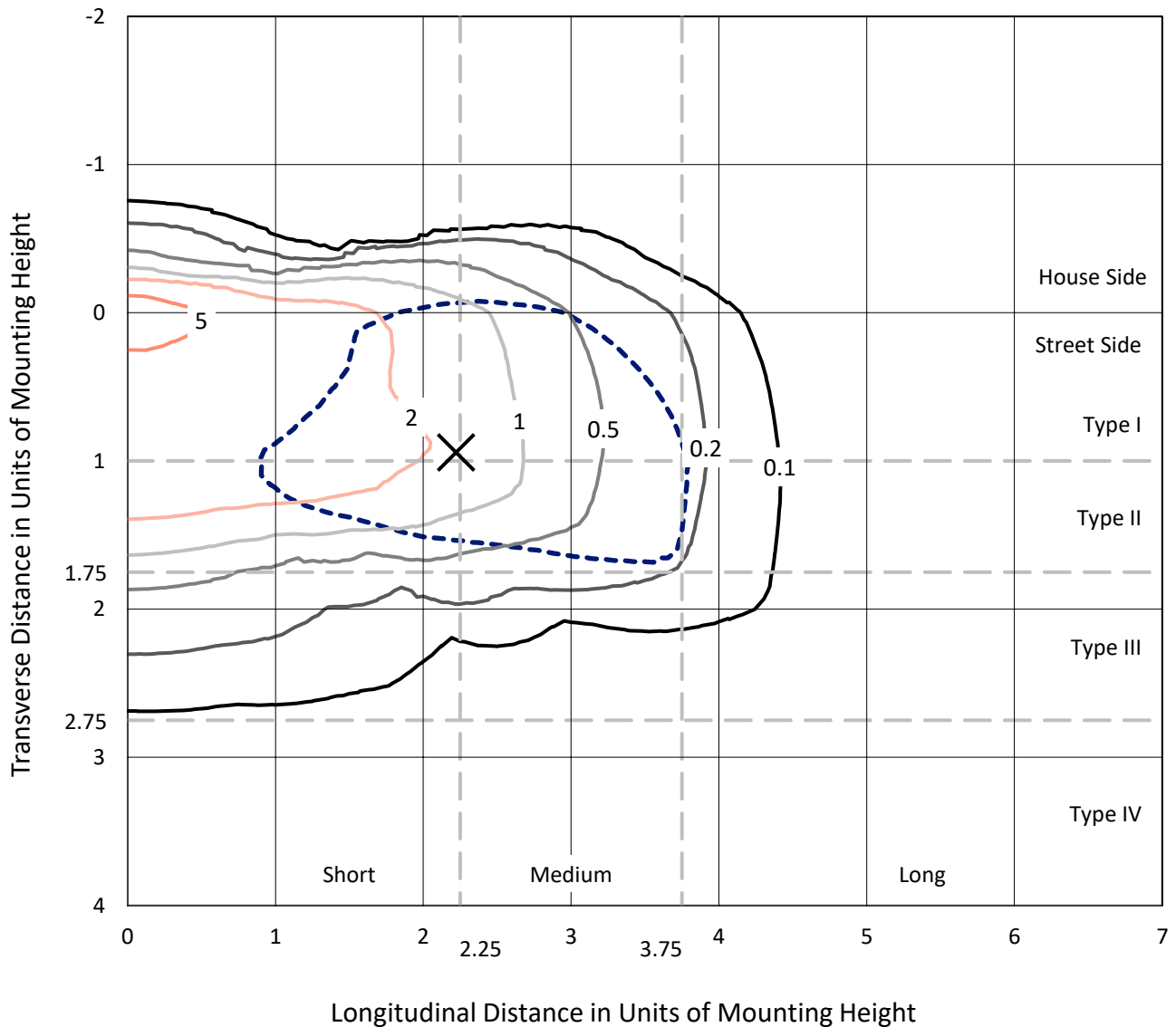
Lumens per Lamp: N/A
Luminaire Lumens: 6606.3 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

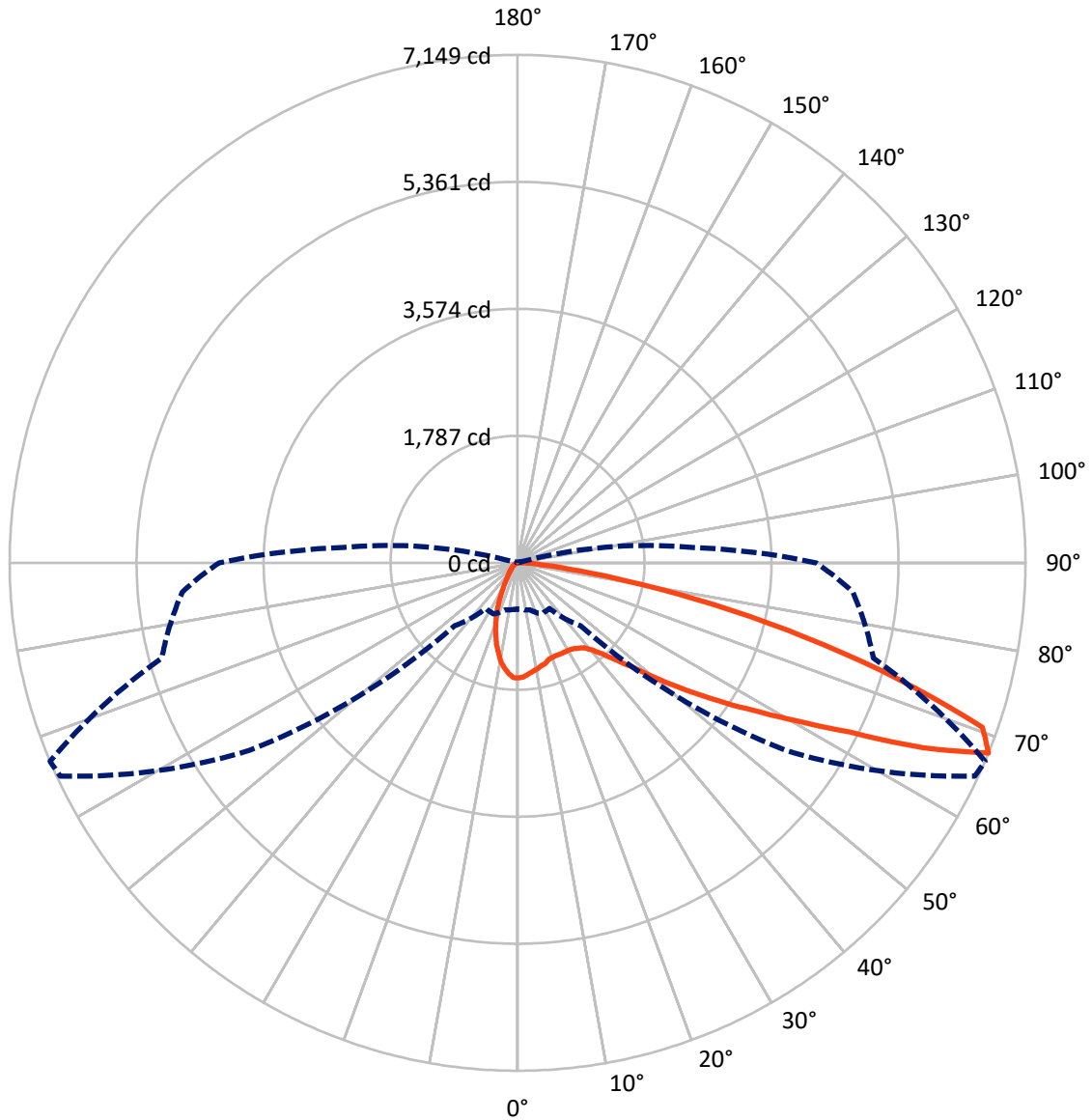
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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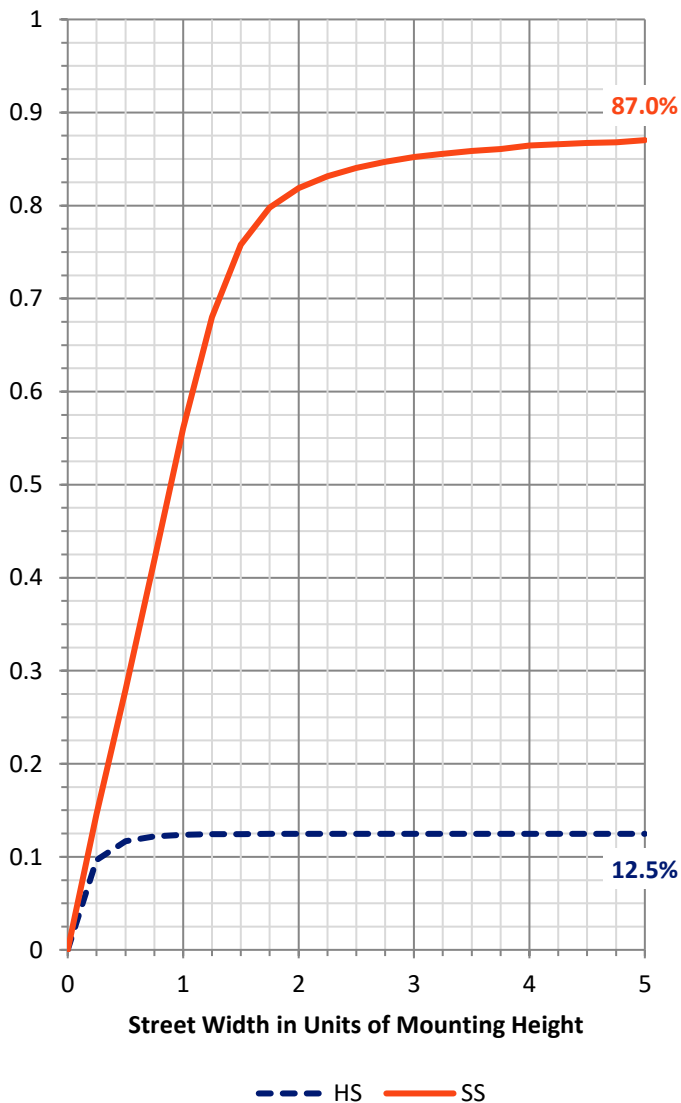
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.4	0.0	831.4
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	5774.8	0.0	5774.8
	% Fixture	87.4	0.0	87.4
Total	Lumens	6606.3	0.0	6606.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	2.1
10°-20°	303.3	4.6
20°-30°	431.3	6.5
30°-40°	628.0	9.5
40°-50°	971.9	14.7
50°-60°	1491.6	22.6
60°-70°	1616.9	24.5
70°-80°	912.2	13.8
80°-90°	114.6	1.7
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°	6606.3	100.0
0°-180°	6606.3	100.0

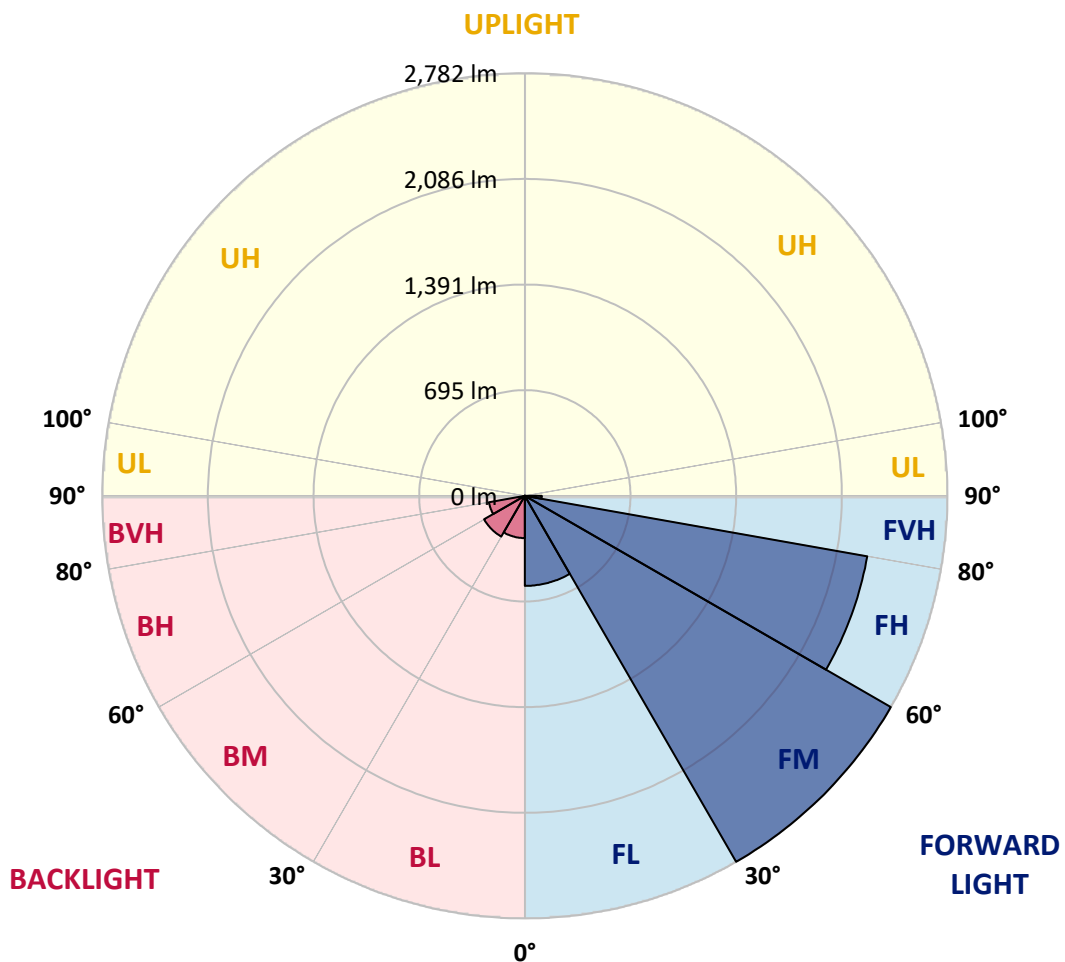


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.8	9.0			
FM (30°-60°)	2781.8	42.1			
FH (60°-80°)	2288.9	34.6			G2/5000
FVH (80°-90°)	111.3	1.7			G2/225
BL (0°-30°)	278.3	4.2	B1/500		
BM (30°-60°)	309.7	4.7	B1/1000		
BH (60°-80°)	240.2	3.6	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4
2.5°	1550.4	1558.3	1569.5	1585.4	1596.5	1590.1	1594.9	1622.0	1607.7	1620.4	1614.0
5°	1464.4	1472.4	1488.3	1486.7	1499.4	1523.3	1555.1	1590.1	1574.2	1612.4	1626.8
7.5°	1375.3	1372.1	1372.1	1405.5	1432.6	1466.0	1483.5	1540.8	1542.4	1575.8	1610.8
10°	1294.1	1303.6	1319.6	1332.3	1357.8	1405.5	1456.4	1501.0	1518.5	1585.4	1594.9
12.5°	1244.7	1249.5	1268.6	1279.8	1313.2	1359.3	1413.5	1470.8	1485.1	1553.5	1599.7
15°	1224.0	1235.2	1241.6	1262.3	1279.8	1322.7	1362.5	1427.8	1469.2	1523.3	1580.6
17.5°	1240.0	1235.2	1238.4	1244.7	1265.4	1303.6	1346.6	1411.9	1426.2	1516.9	1602.9
20°	1260.7	1262.3	1252.7	1249.5	1244.7	1281.4	1316.4	1400.7	1416.6	1516.9	1617.2
22.5°	1316.4	1298.9	1316.4	1290.9	1265.4	1281.4	1314.8	1402.3	1413.5	1515.3	1631.5
25°	1384.8	1388.0	1392.8	1338.7	1302.0	1290.9	1325.9	1407.1	1416.6	1528.1	1637.9
27.5°	1481.9	1496.2	1472.4	1445.3	1372.1	1316.4	1324.3	1403.9	1421.4	1521.7	1653.8
30°	1612.4	1601.3	1604.5	1542.4	1470.8	1383.2	1360.9	1411.9	1424.6	1529.7	1684.1
32.5°	1725.4	1712.7	1735.0	1712.7	1599.7	1478.7	1403.9	1427.8	1442.1	1548.8	1709.5
35°	1795.5	1811.4	1846.4	1870.3	1774.8	1602.9	1475.5	1470.8	1477.1	1558.3	1728.6
37.5°	1903.7	1932.4	1961.0	2021.5	1938.7	1755.7	1588.6	1526.5	1515.3	1604.5	1738.2
40°	2021.5	2013.6	2097.9	2169.5	2166.4	1970.6	1746.1	1625.2	1609.3	1677.7	1801.9
42.5°	2120.2	2112.2	2206.2	2323.9	2336.7	2177.5	1926.0	1765.2	1750.9	1790.7	1879.8
45°	2249.1	2255.5	2366.9	2507.0	2553.2	2451.3	2169.5	1965.8	1957.8	1945.1	2027.9
47.5°	2363.7	2398.8	2494.3	2659.8	2826.9	2734.6	2456.1	2258.7	2203.0	2174.3	2257.1
50°	2443.3	2475.2	2591.4	2768.0	3073.7	3132.5	2777.6	2570.7	2572.3	2502.2	2546.8
52.5°	2443.3	2441.7	2535.6	2768.0	3245.6	3548.0	3207.4	2963.8	2976.6	2903.3	2906.5
55°	2207.7	2203.0	2317.6	2564.3	3226.5	3947.5	3858.4	3462.0	3430.2	3288.5	3302.9
57.5°	1778.0	1789.1	1876.7	2172.7	2978.1	4133.8	4633.6	4022.3	3914.1	3621.2	3621.2
60°	1297.3	1287.7	1353.0	1559.9	2386.0	4063.7	5270.3	4682.9	4512.6	3896.6	3855.2
62.5°	986.9	985.3	1002.8	1072.8	1513.7	3543.2	5544.0	5523.3	5246.4	4167.2	4108.3
65°	797.5	800.6	824.5	873.9	924.8	2416.3	5399.2	6526.1	6273.1	4569.9	4377.3
67.5°	651.0	659.0	687.6	794.3	783.1	1251.1	4598.5	7100.8	7148.5	5184.3	4738.6
70°	501.4	514.1	547.6	698.8	754.5	832.5	3188.3	6814.2	6941.6	5566.3	4520.5
72.5°	340.6	339.0	410.7	566.7	762.4	762.4	1774.8	5488.3	5609.3	5131.8	3926.8
75°	184.6	195.8	272.2	428.2	698.8	737.0	1010.8	4016.0	4186.3	3990.5	3037.0
77.5°	100.3	101.9	151.2	280.1	581.0	703.5	674.9	2731.4	2798.3	2406.7	1663.4
80°	52.5	54.1	79.6	183.1	401.1	652.6	561.9	1628.4	1564.7	923.2	549.2
82.5°	23.9	25.5	39.8	114.6	256.3	514.1	485.5	786.3	725.8	257.9	167.1
85°	9.6	9.6	17.5	68.4	149.6	253.1	415.4	394.8	329.5	78.0	82.8
87.5°	3.2	3.2	4.8	27.1	60.5	151.2	221.3	208.5	143.3	28.7	44.6
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°	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4	1620.4
2.5°	1607.7	1625.2	1620.4	1617.2	1587.0	1583.8	1580.6	1551.9	1561.5	1537.6	1553.5
5°	1617.2	1626.8	1601.3	1553.5	1510.6	1462.8	1426.2	1400.7	1354.6	1337.1	1333.9
7.5°	1607.7	1607.7	1555.1	1478.7	1394.4	1316.4	1217.7	1147.6	1095.1	1055.3	1069.7
10°	1594.9	1575.8	1521.7	1386.4	1233.6	1115.8	974.1	870.7	792.7	767.2	751.3
12.5°	1594.9	1561.5	1440.5	1255.9	1058.5	880.2	711.5	576.2	501.4	456.8	450.5
15°	1580.6	1531.3	1381.6	1133.3	888.2	646.2	453.6	337.4	273.8	256.3	249.9
17.5°	1583.8	1524.9	1294.1	988.5	689.2	429.8	277.0	213.3	197.4	189.4	191.0
20°	1590.1	1524.9	1216.1	846.8	496.6	267.4	191.0	179.9	171.9	168.7	170.3
22.5°	1610.8	1494.6	1136.5	702.0	335.9	192.6	168.7	157.6	151.2	146.4	144.8
25°	1614.0	1489.9	1060.1	558.7	230.8	162.4	148.0	135.3	127.3	121.0	119.4
27.5°	1609.3	1469.2	953.5	415.4	173.5	144.8	125.7	113.0	101.9	97.1	95.5
30°	1626.8	1431.0	862.7	299.2	146.4	125.7	106.6	92.3	82.8	76.4	76.4
32.5°	1628.4	1397.5	762.4	213.3	133.7	111.4	90.7	74.8	65.3	62.1	62.1
35°	1629.9	1367.3	651.0	162.4	119.4	95.5	74.8	62.1	55.7	50.9	50.9
37.5°	1634.7	1345.0	549.2	136.9	106.6	81.2	62.1	50.9	44.6	43.0	43.0
40°	1644.3	1314.8	442.5	121.0	92.3	68.4	52.5	43.0	36.6	35.0	33.4
42.5°	1669.7	1306.8	353.4	108.2	82.8	57.3	43.0	35.0	30.2	27.1	25.5
45°	1774.8	1327.5	273.8	100.3	70.0	47.8	36.6	28.7	22.3	20.7	19.1
47.5°	1946.7	1396.0	216.5	89.1	58.9	39.8	30.2	22.3	17.5	15.9	14.3
50°	2207.7	1551.9	176.7	79.6	49.3	33.4	23.9	17.5	12.7	11.1	11.1
52.5°	2550.0	1762.1	152.8	70.0	39.8	28.7	19.1	12.7	9.6	8.0	8.0
55°	2900.2	2010.4	143.3	60.5	33.4	23.9	14.3	9.6	6.4	4.8	4.8
57.5°	3221.7	2171.1	138.5	49.3	28.7	17.5	11.1	6.4	3.2	1.6	1.6
60°	3422.2	2288.9	124.2	39.8	22.3	14.3	8.0	3.2	1.6	0.0	0.0
62.5°	3686.5	2408.3	101.9	30.2	15.9	9.6	4.8	1.6	0.0	0.0	0.0
65°	4035.1	2542.0	79.6	23.9	12.7	6.4	3.2	1.6	0.0	0.0	0.0
67.5°	4202.2	2472.0	54.1	17.5	8.0	3.2	1.6	0.0	0.0	0.0	0.0
70°	3867.9	2082.0	38.2	12.7	4.8	1.6	1.6	0.0	0.0	0.0	0.0
72.5°	3251.9	1631.5	28.7	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	2397.2	1020.3	22.3	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1271.8	380.4	15.9	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	375.7	111.4	11.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	124.2	33.4	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.7	12.7	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.6	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
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)