

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: P677132

Luminaire Tested: **CCW-SA-1F-735-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677132
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-735-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

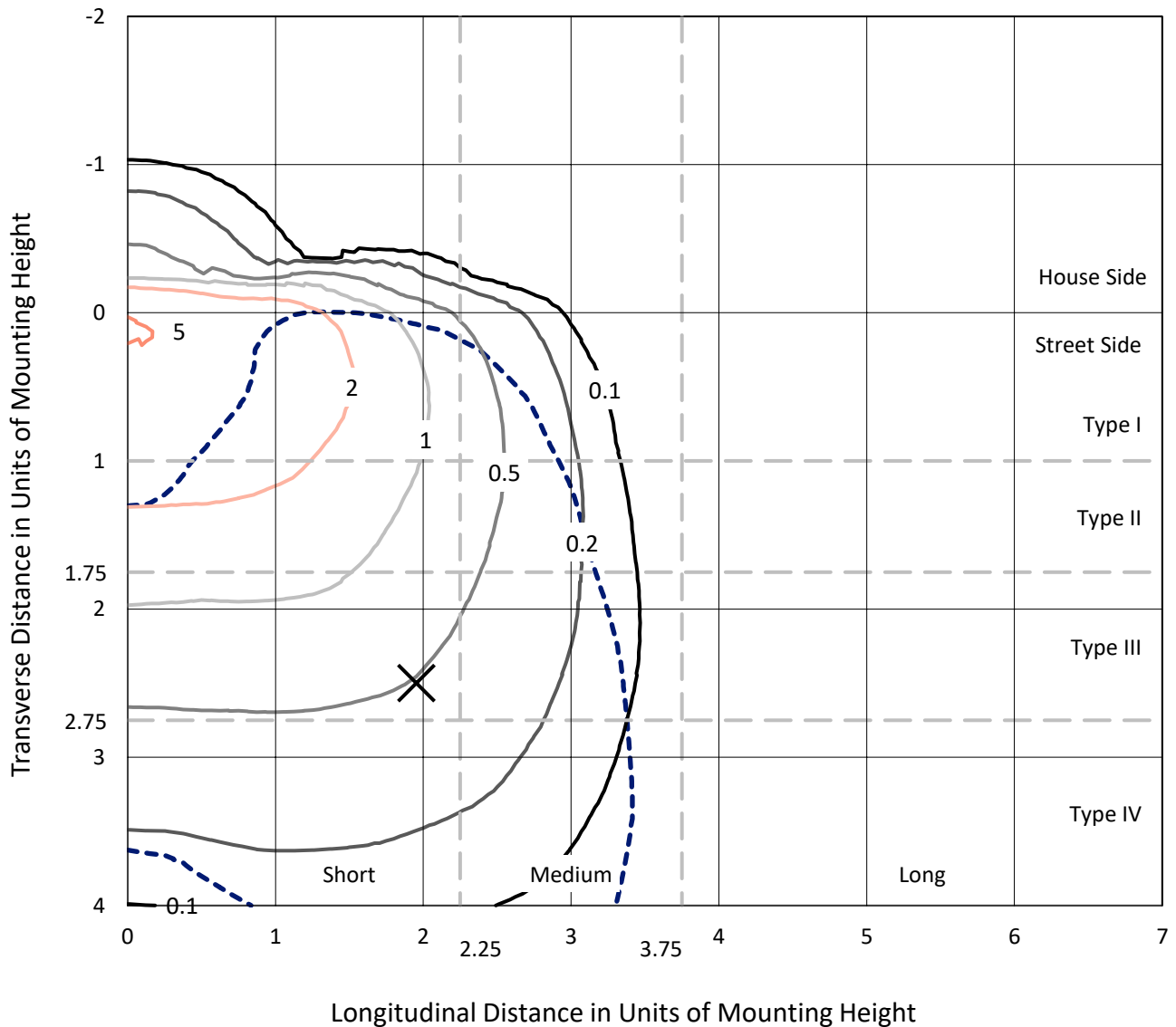
Lumens per Lamp: N/A
Luminaire Lumens: 6108.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

REPORT NUMBER: P677132
 CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

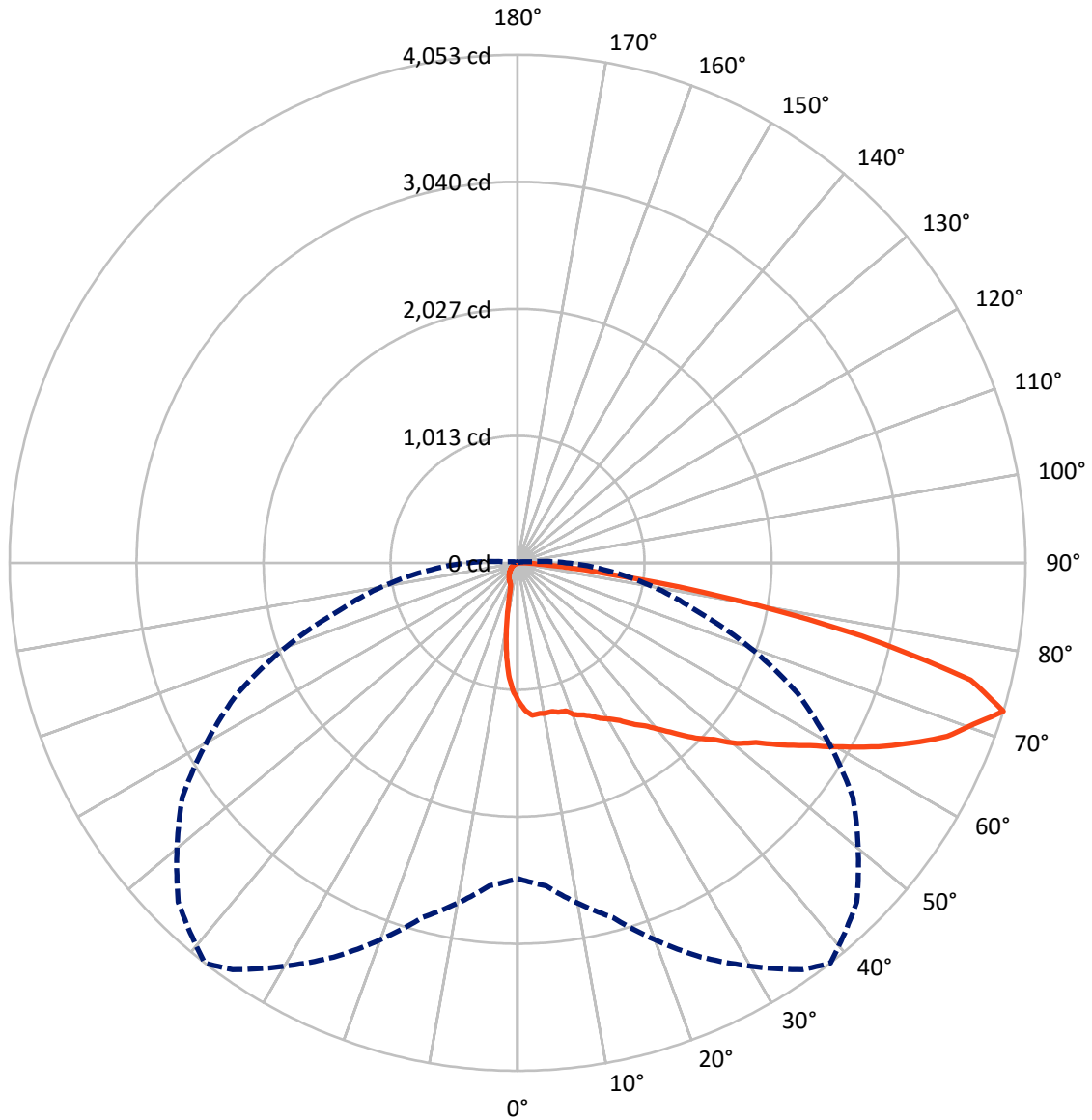
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P677132
CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677132
 CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

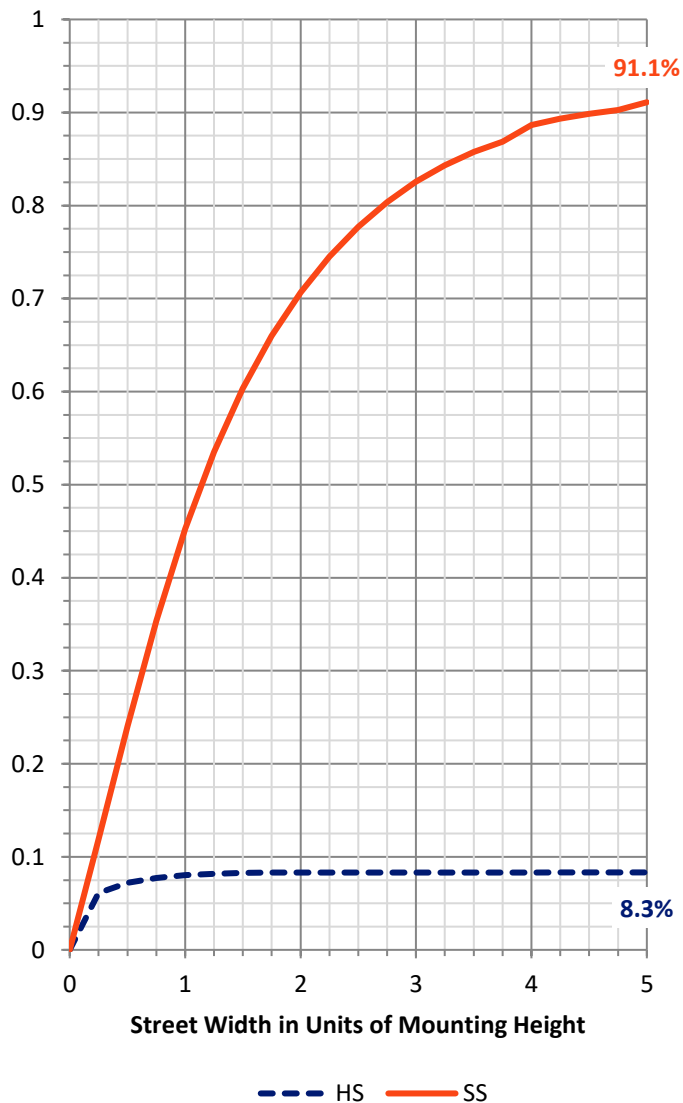
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.6	0.0	511.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5596.8	0.0	5596.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	6108.4	0.0	6108.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	1.6
10°-20°	236.7	3.9
20°-30°	379.5	6.2
30°-40°	573.0	9.4
40°-50°	872.0	14.3
50°-60°	1227.7	20.1
60°-70°	1499.7	24.6
70°-80°	1089.0	17.8
80°-90°	134.1	2.2
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°	6108.4	100.0
0°-180°	6108.4	100.0



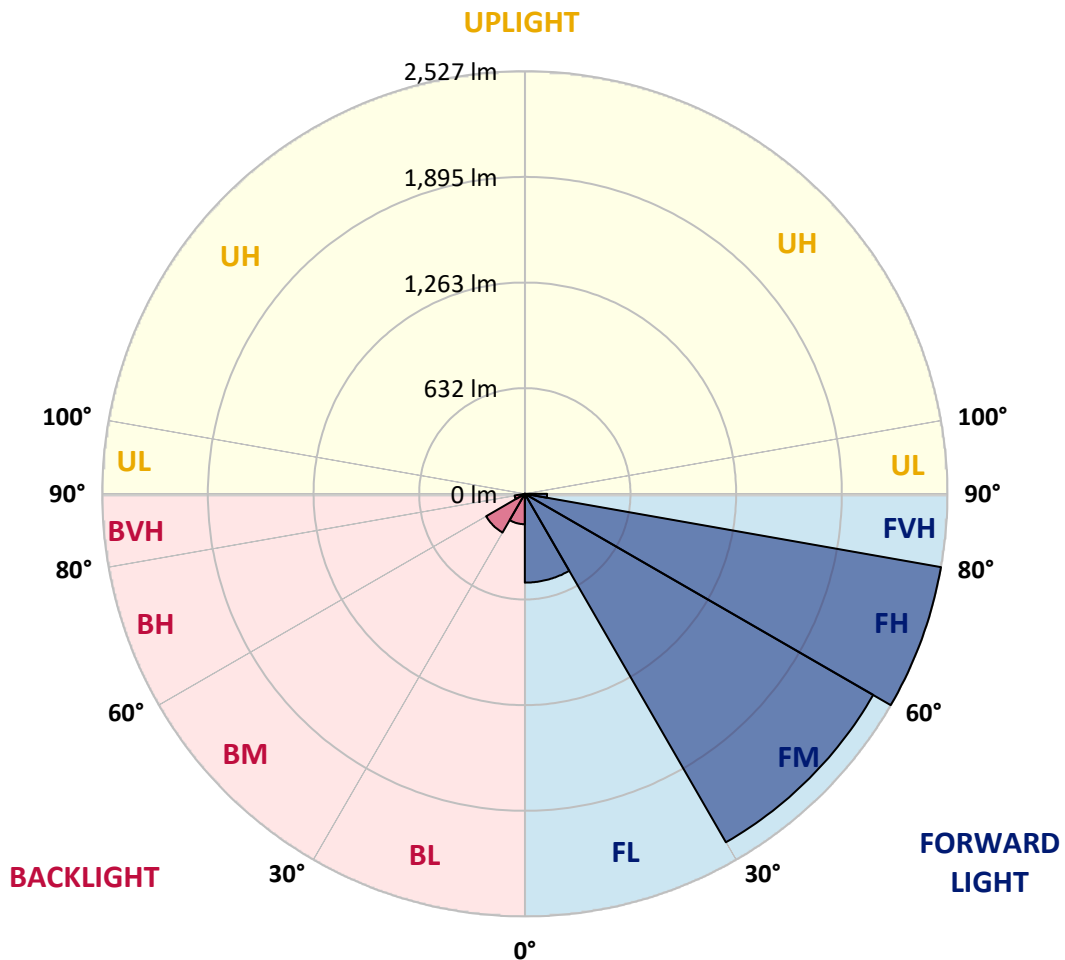
REPORT NUMBER: P677132
 CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.3	8.7			
FM (30°-60°)	2405.5	39.4			
FH (60°-80°)	2526.6	41.4			G2/5000
FVH (80°-90°)	133.4	2.2			G2/225
BL (0°-30°)	181.6	3.0	B1/500		
BM (30°-60°)	267.2	4.4	B1/1000		
BH (60°-80°)	62.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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 IV Short





REPORT NUMBER: P677132

CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6
2.5°	1213.5	1213.5	1225.0	1213.5	1209.2	1182.0	1183.4	1169.1	1154.8	1134.7	1116.1
5°	1227.9	1237.9	1245.1	1235.0	1219.3	1222.1	1232.2	1204.9	1166.3	1141.9	1100.3
7.5°	1222.1	1243.6	1237.9	1232.2	1222.1	1215.0	1200.6	1189.2	1170.5	1147.6	1098.9
10°	1217.8	1225.0	1226.4	1222.1	1200.6	1220.7	1204.9	1186.3	1163.4	1136.2	1076.0
12.5°	1202.1	1202.1	1215.0	1204.9	1207.8	1217.8	1210.7	1206.4	1182.0	1159.1	1106.1
15°	1184.9	1190.6	1210.7	1226.4	1240.8	1236.5	1232.2	1219.3	1197.8	1172.0	1116.1
17.5°	1189.2	1192.0	1223.6	1252.2	1245.1	1242.2	1265.1	1237.9	1216.4	1187.7	1124.7
20°	1204.9	1213.5	1249.3	1286.6	1293.8	1293.8	1285.2	1269.4	1239.3	1200.6	1140.5
22.5°	1220.7	1223.6	1282.3	1329.6	1336.7	1318.1	1325.3	1279.4	1250.8	1229.3	1156.2
25°	1280.9	1275.1	1338.2	1375.4	1371.1	1352.5	1345.3	1305.2	1293.8	1255.1	1190.6
27.5°	1362.5	1338.2	1399.8	1422.7	1399.8	1405.5	1385.5	1342.5	1318.1	1295.2	1206.4
30°	1412.7	1427.0	1460.0	1482.9	1444.2	1445.6	1435.6	1388.3	1351.1	1356.8	1259.4
32.5°	1490.1	1500.1	1524.4	1534.5	1504.4	1501.5	1491.5	1454.2	1427.0	1421.3	1331.0
35°	1573.1	1591.8	1593.2	1596.1	1568.9	1580.3	1566.0	1513.0	1527.3	1537.3	1417.0
37.5°	1654.8	1637.6	1666.3	1679.2	1649.1	1649.1	1653.4	1617.6	1643.4	1673.4	1538.8
40°	1686.3	1693.5	1743.6	1733.6	1769.4	1747.9	1763.7	1755.1	1776.6	1845.4	1710.7
42.5°	1719.3	1727.9	1795.2	1813.8	1856.8	1864.0	1886.9	1888.4	1951.4	2064.6	1875.5
45°	1782.3	1768.0	1859.7	1905.5	1975.7	1995.8	2023.0	2046.0	2144.8	2278.1	2063.1
47.5°	1839.6	1819.6	1924.2	2015.9	2101.8	2106.1	2180.6	2205.0	2322.5	2474.3	2249.4
50°	1919.9	1927.0	1971.5	2129.1	2216.4	2266.6	2318.2	2398.4	2528.8	2690.7	2384.1
52.5°	2003.0	1995.8	2070.3	2225.0	2362.6	2381.2	2497.3	2587.5	2729.4	2851.2	2444.3
55°	2104.7	2113.3	2141.9	2345.4	2520.2	2564.6	2695.0	2789.5	2944.3	2919.9	2464.3
57.5°	2206.4	2197.8	2262.3	2480.1	2717.9	2750.9	2924.2	2980.1	3084.7	2965.8	2414.2
60°	2306.7	2322.5	2349.7	2631.9	2934.3	2983.0	3120.5	3149.2	3172.1	2987.3	2375.5
62.5°	2421.3	2384.1	2468.6	2792.4	3129.1	3230.8	3339.7	3226.5	3206.5	2948.6	2286.7
65°	2478.6	2490.1	2600.4	2975.8	3388.4	3462.9	3477.3	3331.1	3228.0	2862.6	2203.6
67.5°	2567.5	2583.2	2723.6	3163.5	3654.9	3696.5	3644.9	3425.7	3209.3	2750.9	1904.1
70°	2578.9	2617.6	2888.4	3359.8	3822.6	3858.4	3818.3	3488.7	3058.9	2311.0	1409.8
72.5°	2518.8	2587.5	2928.5	3471.5	3963.0	4053.2	3828.3	3266.6	2465.7	1474.3	722.1
75°	1902.7	1960.0	2680.7	3305.3	3713.7	3735.2	3361.2	2493.0	1404.1	502.9	184.8
77.5°	985.7	1084.6	1789.5	2525.9	2829.7	2806.7	2339.7	1468.6	482.8	131.8	74.5
80°	565.9	590.3	782.3	1418.4	1779.5	1692.1	1293.8	633.3	212.0	65.9	48.7
82.5°	279.4	313.8	421.2	634.7	889.7	732.1	485.7	379.7	118.9	35.8	43.0
85°	60.2	63.0	214.9	303.7	361.1	237.8	166.2	319.5	43.0	21.5	41.5
87.5°	43.0	41.5	60.2	136.1	100.3	61.6	98.9	167.6	10.0	10.0	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677132

CATALOG NUMBER: CCW-SA-1F-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6	1104.6
2.5°	1104.6	1091.7	1077.4	1050.2	1043.0	1038.7	1014.4	1012.9	1008.6	998.6	994.3
5°	1074.6	1053.1	1025.8	997.2	974.3	932.7	882.6	856.8	825.3	826.7	816.7
7.5°	1070.3	1030.1	991.5	931.3	858.2	780.8	703.5	653.3	617.5	596.0	600.3
10°	1050.2	1020.1	957.1	845.3	727.8	610.3	511.5	437.0	394.0	361.1	371.1
12.5°	1058.8	1000.1	911.2	762.2	594.6	449.9	326.7	255.0	223.5	212.0	214.9
15°	1053.1	1000.1	884.0	672.0	467.1	305.2	212.0	189.1	183.4	183.4	180.5
17.5°	1070.3	1011.5	838.2	583.1	335.3	203.4	182.0	177.7	173.4	173.4	173.4
20°	1094.6	1017.2	806.6	484.3	236.4	179.1	170.5	167.6	166.2	166.2	164.8
22.5°	1096.0	1011.5	747.9	375.4	182.0	169.1	161.9	160.5	160.5	157.6	157.6
25°	1104.6	1017.2	684.9	282.2	169.1	159.0	153.3	151.9	153.3	151.9	150.4
27.5°	1126.1	1027.3	621.8	206.3	159.0	150.4	146.1	144.7	144.7	144.7	141.8
30°	1153.4	1027.3	551.6	170.5	150.4	141.8	137.5	136.1	134.7	134.7	134.7
32.5°	1210.7	1060.2	465.6	151.9	139.0	131.8	127.5	127.5	126.1	126.1	124.6
35°	1282.3	1083.2	378.2	140.4	128.9	121.8	117.5	117.5	116.1	116.1	114.6
37.5°	1371.1	1140.5	289.4	131.8	118.9	111.8	107.5	107.5	107.5	106.0	106.0
40°	1497.2	1199.2	214.9	120.4	108.9	101.7	98.9	97.4	96.0	96.0	93.1
42.5°	1631.9	1289.5	160.5	111.8	100.3	94.6	90.3	86.0	86.0	81.7	81.7
45°	1778.0	1368.3	130.4	101.7	91.7	84.5	80.2	77.4	73.1	70.2	70.2
47.5°	1921.3	1417.0	114.6	90.3	83.1	77.4	73.1	67.3	61.6	60.2	58.7
50°	2037.4	1431.3	101.7	81.7	75.9	70.2	64.5	57.3	51.6	48.7	47.3
52.5°	2037.4	1352.5	91.7	73.1	68.8	63.0	55.9	47.3	40.1	37.3	35.8
55°	2037.4	1227.9	81.7	67.3	61.6	57.3	47.3	38.7	31.5	27.2	25.8
57.5°	2007.3	1077.4	73.1	60.2	54.4	48.7	40.1	30.1	22.9	18.6	18.6
60°	1924.2	919.8	63.0	53.0	47.3	40.1	31.5	21.5	14.3	10.0	10.0
62.5°	1818.1	732.1	54.4	44.4	38.7	33.0	24.4	14.3	5.7	2.9	2.9
65°	1633.3	540.1	47.3	37.3	30.1	24.4	15.8	5.7	0.0	0.0	0.0
67.5°	1348.2	361.1	37.3	30.1	25.8	17.2	10.0	1.4	0.0	0.0	0.0
70°	948.5	204.9	28.7	21.5	18.6	11.5	2.9	0.0	0.0	0.0	0.0
72.5°	389.7	90.3	20.1	15.8	12.9	5.7	0.0	0.0	0.0	0.0	0.0
75°	106.0	40.1	12.9	8.6	7.2	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	61.6	27.2	5.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.7	12.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.7	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.0	0.0	0.0	0.0	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)